



Query Basics

Contents

Query Basics	
• Course Overview	
Agenda	
• Chapter 1 - Technology Overview	
Architecture Overview	
What is PeopleSoft Query?	
Why should I use PeopleSoft Query?	
Commonly used Tables in Campus Solutions	
• Chapter 2 - Using the Query Manager	
Searching for Existing Queries	
Editing Existing Queries	
➤ <i>Activity 1: Using Query Manager</i>	
• Chapter 3 - Creating a Simple Query	
Selecting Query Output and Editing Query Properties	
Editing Field Properties	
Removing Duplicate Data	
➤ <i>Activity 2: Create a Query, Remove Duplicate Rows and Edit</i>	
• Chapter 4 - Filtering Output with Criteria	
Adding Criteria to Queries	
Refining Criteria	
Using Multiple Criteria Statements	
Using the Effective Date Field in Criteria	
➤ <i>Activity 3: Creating, Editing and Refining Queries with Effective-Dates and Complex Criteria</i>	
• Chapter 5 - Filtering Output with Runtime Prompts	
Describing Runtime Prompts	
Creating Runtime Prompts	
Creating Multiple Runtime Prompts	
➤ <i>Activity 4: Creating Runtime Prompts and Range Prompts</i>	
• Chapter 6 - Working with Multiple Tables	
Describing the Purpose of Joins	
Using Record-Hierarchy and Related-Record Joins	
➤ <i>Activity 5: Accessing Data in Multiple Tables Using Record-Hierarchy and Related-Record Joins</i>	
• Chapter 7 - Using Summary Calculations	
Describing Aggregate Functions and Having Criteria	
Using Predefined Aggregate Functions	
Using the Having Criteria	
➤ <i>Activity 6: Using Having Criteria and Applying Criteria to Aggregated Fields</i>	
• Chapter 8 – Report Manager	
Running a Report with Report Manager	
Organizing Report Manager	

Chapter 1

Technology Overview

What is PeopleSoft Query?

PeopleSoft Query is an end-user reporting tool. You use queries to retrieve information from the database to a web interface.

With PeopleSoft Query, you can extract the precise information that you're looking for by using visual representations of the PeopleSoft database and without writing Structured Query Language (SQL) statements.

Queries are comprised of the following database elements:

Tables (records)

Tables are composed of columns and rows. In PeopleSoft databases, tables are built from record definitions (or records for short). Record definitions are used by PeopleSoft Query to represent the tables (example below).

Example of the Course Catalog

The screenshot displays the PeopleSoft Course Catalog interface. On the left is a navigation menu with categories like 'My Favorites', 'Self Service', and 'Curriculum Management'. The main content area shows details for Course ID 000000. The interface includes tabs for 'Catalog Data', 'Offerings', 'Components', and 'GL Interface'. The 'Offerings' tab is active, showing fields for 'Effective Date' (05/07/2008), 'Status' (Active), and 'Description'. Below this is a section for 'Course Units/Hours/Count' with fields for 'Minimum Units', 'Maximum Units', 'Academic Progress Units', 'Financial Aid Progress Units', 'Last Course of Mult Term Seq', '*Enrollment Unit Load Calc Type' (Actual Units), 'Course Count' (1.00), and 'Course Contact Hours' (0.00). A 'Course Grading' section includes '*Grading Basis' (Graded) and '*Grade Roster Print' (Componen). At the bottom, there is a 'Repeat for Credit Rules' section.

How do I find out what tables I need to Query?

Control+J

Browser IE/7.0
Operating System WINXP
Browser Compression ON (gzip)
Tools Release 8.48.06
Application Release HRMS and Campus Solutions 9.00.00.000
Service Pack 0
Page CRSE_CATALOG
Component CRSE_CATALOG
Menu ESTABLISH_COURSES
Component Buffer Size (KB) 365

[continue](#)

Example of a table - CRSE_CATALOG_TBL table

COURSE_ID	EFFDT	EFF_STATUS	DESCR	DESCRLONG
000001	02/01/2008	A	PSQuery	The History of Bingo
000001	05/26/2008	A	Query Basic	The History of Bingo II
000002	05/20/2008	A	Life	How did I get this far
000003	06/01/2008	A	Acct prin	Accounting Principals
000004	09/29/2008	I	ERPSIS	How to Navigate

Columns (fields)

Columns store single pieces of information for each row (example above). Course ID: (COURSE_ID) is a column in the CRSE_CATALOG_TBL table.

Rows (field data)

A row contains all the information for a unique combination of key values on the table.

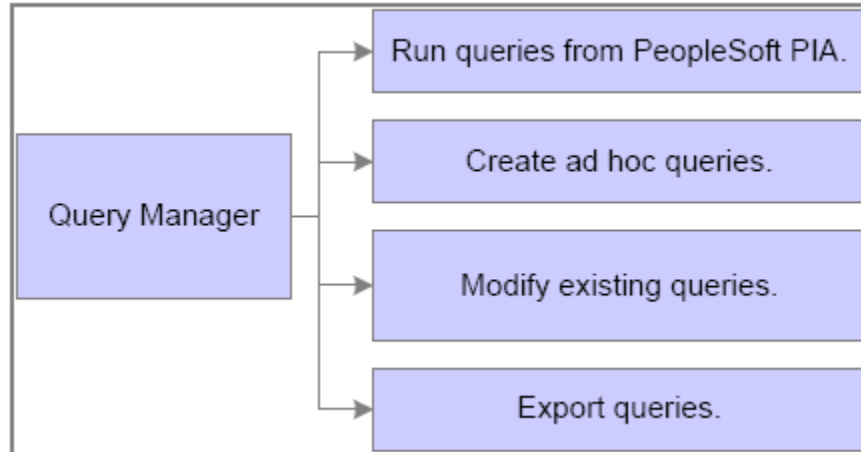
For example, in the CRSE_CATALOG_TBL table a row includes the data for these fields: COURSE_ID, EFFDT, EFF_STATUS, DESCR, and DESCRLONG

Keys

Keys are one or more columns on a table that make each row unique.

The key fields for the CRSE_CATALOG_TBL are Course ID and Effective Date (COURSE_ID and EFFDT)

Why should I use PeopleSoft Query?



Query Manager

Query Manager provides the following:

- Ability to run queries from the PeopleSoft Pure Internet Architecture.
- The ability to easily retrieve user-requested information.
- The ability to easily access and modify existing queries.
- The option to export data to various report types.

Obtaining information using Query Manager

Query Manager uses these methods to obtain information from the database:

- Filtering data by using the criteria feature.
- Creating expressions.
- Using multiple record joins to obtain detailed information that is not found in a single record.
- Using runtime prompts, which enables users to enter values at runtime to obtain specific results.

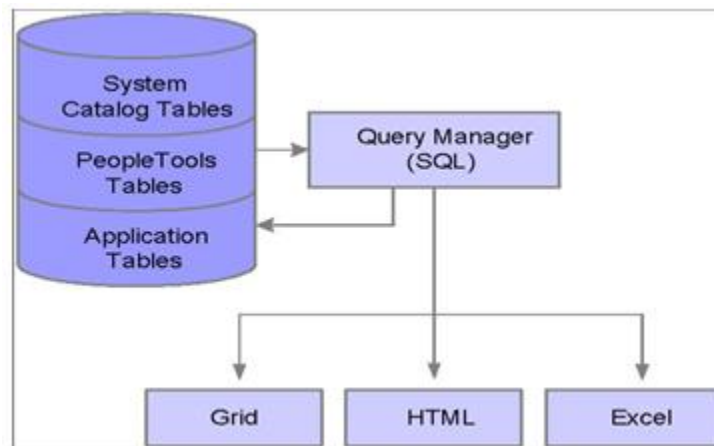
Common Terms Used in Query Manager

Term	Definition
Aggregate	Performs a computation on a set of values rather than on a single value. (add, average, etc)
Criteria	Refines the query by specifying conditions that the retrieved data must meet.
Data Row	Contains the values for each field in a table. To identify each data row uniquely, the system uses a key consisting of one or more fields in the table.

Distinct	Removes duplicate rows of data.
Effective Date	Dates information in the system giving the capability to have future, current and historical data stored in the database and ready to retrieve with the appropriate security. Example: entering information before it goes into effect.
Expression	Calculates a formula that PeopleSoft Query returns as a part of a query. Example: Constant Value Course Type = ACCT
Field	Contains the smallest unit of information that you access.
Metadata	Information about data.
Primary Key Fields	One or more columns on a table that make each row unique from the others.
Record Hierarchy Join	A record hierarchy join is a virtual connection between a parent table and a child table.
SQL	Accesses and manipulates data in databases.

PeopleSoft Query Data Retrieval from Database to Report

This diagram illustrates how PeopleSoft Query accesses PeopleSoft databases and how queries are exported to other file types:



Using the PeopleSoft Database

In a PeopleSoft Database:

- Query definitions (metadata) are stored in the PeopleTools tables.
- The data values of the selected fields are stored in the application tables.

Commonly used Tables in Campus Solutions

CLASS_TBL

1. COURSE_ID
2. CRSE_OFFER_NBR
3. STRM - Term
4. SESSION_CODE
5. CLASS_SECTION

FACILITY_TBL

1. SETID
2. FACILITY_ID
3. EFFDT

CLASS_INSTR

RQ_GRP_TBL

CLASS_ASSOC

CLASS_ATTRIBUTE

CLASS_NOTES_TBL

CLASS_FEE_TBL

CLASS_MTG_PAT

SCTN_CMBND

Key Admissions, Student Records Tables

- **ACAD_PROG**
 1. A student's effective dated Program Statuses (Active, Discontinued, Dismissed, etc.).
 2. A student's Academic Program.
 3. Program Action Reason that describes the corresponding action.
 4. A student's Expected Graduation Term.
 5. A student's Degree Checkout Status.
 6. A student's Admit Term.
- **ACAD_PLAN** (child table of ACAD_PROG)
 1. A student's major(s) and minor(s).
- **ACAD_SUBPLAN** (child table of ACAD_PLAN)

1. A student's subplan (specialization in their major).
- **STDNT_ENRL**
 1. Historical Student Enrollment (by term). The table that holds the detail of all courses/grades taken in residence.
 - **STDNT_CAR_TERM**
 1. A student's cumulative units and term units.
 2. A student's cumulative GPA.
 3. A student's academic level (freshmen, sophomore, junior, senior, graduate, postbac).
 4. A student's academic load (full time, part time) for a term.
 5. A student's primary academic program (for a term).
 6. A student's eligible to enroll flag (for a term).
 - **ACAD_DEGR**
 1. Student Degrees earned at this institution.
 - **ACAD_DEGR_PLAN**
 1. The plan(s) in which the student has earned a degree at this institution
 - **CLASS_TBL**
 1. Schedule of Classes
 - **CRSE_CATALOG**
 1. Course data like DESCRIPTION, UNIT VALUES, GRADING BASIS
 - **CRSE_OFFER**
 1. Course data like SUBJECT, CATALOG NBR, REQUIREMENT GROUP
 - **STDNT_SPCL_GPA (populated by a custom CMS Baseline Process)**
 1. Transfer Total GPA-Cumulative and Term
 2. Resident GPA-Cumulative and Term
 3. Cal Grant GPA.
 - **STDNT_GRP_HIST**
 1. All Student Group(s) that the student is (was) active in or inactive in.
 - **ACAD_STDNG_ACTN**
 1. The student's end of term academic standing.

- **SRVC_IND_DATA**
 1. The student's current Service Indicators (holds).

- **STDNT_ENLR_APPT**
 1. The student's enrollment appointment (assigned per term/session).

- **STDNT_CAR_MLSTN (effective dated)**
 1. The student's milestones, levels and completion status.

- **STDNT_TEST_COMP**
 1. All student test scores.

- **GRADE_RSTR_TYPE & GRADE_ROSTER**
 1. Grade Rosters.

- **ADM_APPL_DATA joined to ADM_APPL_PROG (parent to child)**
 1. All applicant data that has been posted to PeopleSoft from MENTOR.
 2. The applicant's Admit Term is found in ADM_APPL_PROG.
 3. The applicant's status (APPL, ADMT, DENY, MATR, WAPP) is found in ADM_APPL_PROG.
 4. The applicant's Academic Program is found in ADM_APPL_PROG.
 5. The applicant's Admit Type is found in ADM_APPL_DATA
 6. The applicant's self reported Academic Level is found in ADM_APPL_DATA.

Transfer Credit:

TRNS_CRSE_DTL

STDNT_CAR_TERM

TRNS_TEST_DETAIL

Financial Aid:

ISIR_00_1_EC - 1999-2000 ISIR Sect 1 EC

ISIR_00_2_EC - 1999-2000 ISIR 2 EC

ISIR_00_3_EC - ISIR 3 EC

ISIR_COMMENTS - ISIR Comment Codes

ISIR_COMMT_TBL - ISIR Comment Descriptions
ISIR_COMPUTED - Computed Data from INAS/DOE
ISIR_CONTROL - ISIR Internals/Control Data
ISIR_PARENT - Fed Parent Application Data
ISIR_STUDENT - Fed Student Application Data
STDNT_FA_TERM - Student Fin Aid Term Table
STDNT_TERM_BDGT - Student Term Budget
STDNT_AWARDS - Student Awards
STDNT_AWRD_ACTV - Student Award Activity
STDNT_AWRD_DISB - Student Award Disbursements
STDNT_DISB_VW1 - Stdnt Disbursement By Term
STDNT_AID_ATTRBT - Student Aid Attributes Table
STDNT_FA_TRM_VW - Student Fin Aid Term View
STDNT_PKG_VAR - Student Packaging Variables
STDNT_BGT_IT_VW - Stdnt Bdgt Item Summary Vw
ITEM_TP_FA_AWRD - Item Tp Prompt for Awards
ITEM_TP_FA_DISB - Item Type Disb Plan/Split Cd
ITEM_TP_FA_PKG - Item Tp Prompt for Packaging
SFA_ASG_ELIG - ACG/SMART Eligibility
SFA_ASG_ORG - ACG/SMART Origination Record
SFA_ASG_DSB - ACG/SMART Disbursement

Student Financials:

ITEM_SF
ITEM_LINE
SF_ACCTG_LINE

TUIT_CALC_TBL

BILL_HEADER

ITEM_TYPE_TBL

REFUND_HDR

REFUND_DTL

BILL_HEADER_VW

COLLECTION_SF

Chapter 2

Using the Query Manager

Query Manager Search

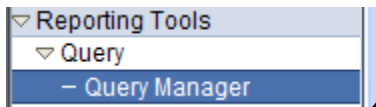
Use the Query Manager Search page to locate and manage queries. This illustration shows the usages of this page:



How do I Search and Manage Queries?

Navigation:

- Reporting Tools
- Query
- Query Manager – Click the **Search** button



The main interface area. At the top right, there are links for 'Home', 'Worklist', and 'MultiCh'. Below this, there are links for 'Find an Existing Query' and 'Create New Query'. A search form is present with the label '*Search By:' followed by a dropdown menu set to 'Query Name' and a text input field containing 'begins with'. Below the search form are two buttons: 'Search' (highlighted in yellow) and 'Advanced Search'.

Search Results

Too many items met your search criteria. Only the first 300 items displayed.

*Folder View: -- All Folders --

Check All Uncheck All

*Action: -- Choose -- Go

Query								Customize	Find	View 100	First	1-30 of 300	Last
Select	Query Name	Descr	Owner	Folder	Edit	Run to HTML	Run to Excel	Schedule					
<input type="checkbox"/>	AD701__ADMISSIONS_ACTIONS_TBL	AD701---Admissions Actions Tbl	Public		Edit	HTML	Excel	Schedule					
<input type="checkbox"/>	AD702__TEST_TABLES	AD702---Test Tables	Public		Edit	HTML	Excel	Schedule					
<input type="checkbox"/>	AD703__RECRUIT_CATEGORY_TBL	AD703---Recruit Category Tbl	Public		Edit	HTML	Excel	Schedule					
<input type="checkbox"/>	AD704__REFERRAL_SOURCE_TBL	AD704---Referral Source Tbl	Public		Edit	HTML	Excel	Schedule					
<input type="checkbox"/>	AD705__REGION_TABLE	AD705---Region Table	Public		Edit	HTML	Excel	Schedule					
<input type="checkbox"/>	AD710__SUMMARY_TYPE_TABLE	AD710---Summary Type Table	Public		Edit	HTML	Excel	Schedule					
<input type="checkbox"/>	AD711__ADMIT_TYPE_TABLE	AD711---Admit Type Table	Public		Edit	HTML	Excel	Schedule					
<input type="checkbox"/>	AD712__APPLICATION_CENTER_TAB	AD712---Application Center Tab	Public		Edit	HTML	Excel	Schedule					
<input type="checkbox"/>	AD713__EVALUATION_TABLE	AD713---Evaluation Table	Public		Edit	HTML	Excel	Schedule					

Feature	Usage
Search by:	Perform a quick search using any field in the drop-down list box.
Advanced Search	Select this link to narrow a query search using eight search categories and other conditional criteria.
Folder View	Displays queries by folder name.
Action	Organize, copy, delete, and rename queries.
Select	Select this check box to flag a query for an action.
Check All and Uncheck All	Click these buttons to select or deselect all queries that are in the search list.
HTML	Select this link to run a query to HTML format.
Excel	Select this link to run to Excel
Schedule	Select this link to access the Process Scheduler Request page and set the particular date and time to run the query.

Security Permissions

If the Query Manager link does not appear under the Query folder, the security administrator must grant access to the Query Manager component (QUERY_MANAGER) and pages.

Query Manager Advanced Search

You can narrow the focus of a search by using the Query Manager advanced search. This page enables you to search using:

- Eight different search fields.
- Ten conditional logic operators.

Click the **Advanced Search** link

Find an Existing Query [Create New Query](#)

*Search By: begins with


 [Advanced Search](#)

Advanced Search

Query Manager

Enter any information you have and click Search. Leave fields blank for a list of all values.

[Find an Existing Query](#) | [Create New Query](#)

Query Name:	begins with	<input type="text"/>
Description:	begins with	<input type="text"/>
Uses Record Name:	begins with	<input type="text"/>
Uses Field Name:	begins with	<input type="text"/>
Access Group Name:	begins with	<input type="text"/> 
Folder Name:	begins with	<input type="text"/>
*Query Type:	=	User <input type="text"/>
Owner:	=	<input type="text"/>

When using the IN or BETWEEN operators, enter comma separated values without quotes. i.e. JOB,EMPLOYEE,JRNL_LN.

[Basic Search](#)

[Find an Existing Query](#) | [Create New Query](#)

Eight Fields on Query Manager Advanced Search Page

Field	Description
Query Name	Enter the name of the query.
Description	Enter a description of partial description of the query.
Uses Record Name	Enter the record with which the query is associated. <i>Note: The record might be used by multiple queries, so you might get more results than you plan.</i>
Uses Field Name	Enter a field that the query uses. <i>Note: The field might be used by multiple queries, so you might get more results than you plan.</i>
Access Group Name	Enter the access group with which the query is associated.
Folder Name	Enter the name of the folder that stores the query.
Query Type	Enter the query types: role, user, process, or archive.
Owner	Enter whether the query is public or private.

Conditional Logic Operators

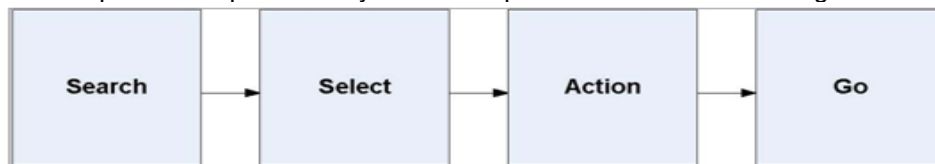
begins with ▾

- <
- >
- =
- <=
- >=
- begins with
- between
- contains
- in
- not =

Organizing Queries

Once you locate the desired queries, you use the Actions options to help you organize the selected queries.

The process to perform any action on queries is shown in this diagram



Query Manager

Enter any information you have and click Search. Leave fields blank for a list of all values.

[Find an Existing Query](#) | [Create New Query](#)

*Search By: Query Name ▾ begins with

[Advanced Search](#)

Step 1
Search

Search Results

Too many items met your search criteria. Only the first 300 items displayed.

*Folder View: -- All Folders -- ▾

Step 3
Action

Step 4
Go

Select	Query Name	Descr	Owner	Folder	First	to	Schedule
<input checked="" type="checkbox"/>	AD701__ADMISSIONS_ACTIONS_TBL	AD701--Admissions Actions Tbl	Public				Schedule
<input type="checkbox"/>	AD702__TEST_TABLES	AD702--Test Tables	Public		Edit	HTML	Excel Schedule
<input type="checkbox"/>	AD703__RECRUIT_CATEGORY_TBL	AD703--Recruit Category Tbl	Public		Edit	HTML	Excel Schedule
<input type="checkbox"/>	AD704__REFERRAL_SOURCE_TBL	AD704--Referral Source Tbl	Public		Edit	HTML	Excel Schedule

Step 2
Select

*Action: -- Choose -- ▾

- Choose --
- Add to Favorites
- Copy to User
- Delete Selected
- Move to Folder
- Rename Selected

Options in the Action Field – Step 3 from the Action dropdown list box:

Action	Purpose
Add to Favorites	Adds queries to the My Favorite Queries list.
Copy to User	Copies private queries to other users. <i>Note: The user that you copy to must have access to the records with which the query is associated</i>
Delete Selected	Deletes the selected queries from the database.
Move to Folder	Moves queries to folders.
Rename Selected	Changes the name of the selected queries.

My Favorite Queries

You can quickly access a frequently used query from the Query Manager search page by designating the query as a favorite. After you create a favorite, the favorites appear on the search page automatically.

Click the triangular arrow next to the My Favorite Queries label to expand and collapse the list.

Note: Queries in the My Favorite Queries list are linked to the user ID.

Adding Queries to the My Favorite Queries List

To add queries to the My Favorite Queries List:

1. Search for queries to add to the My Favorite Queries List.
2. Select the query by selecting the Select check box.
3. Select **Add to favorites** from the Actions dropdown list box.
4. Click the Go button.

Removing Queries from the My Favorite Queries List

To remove queries from the My Favorite Queries List:

1. Click the Remove button (the minus button) to remove one query from the list.
2. Click the Clear Favorites List button to remove all queries from the list.

Creating and Using Folders

Use folders to organize queries. Create a folder structure that suits the needs of users.

Keep the following in mind when using folders:

- All folders are visible to all users.
- Private queries appear in a folder.
- A query can be stored in only one folder other than the All Folders view.

Moving Queries to Folders

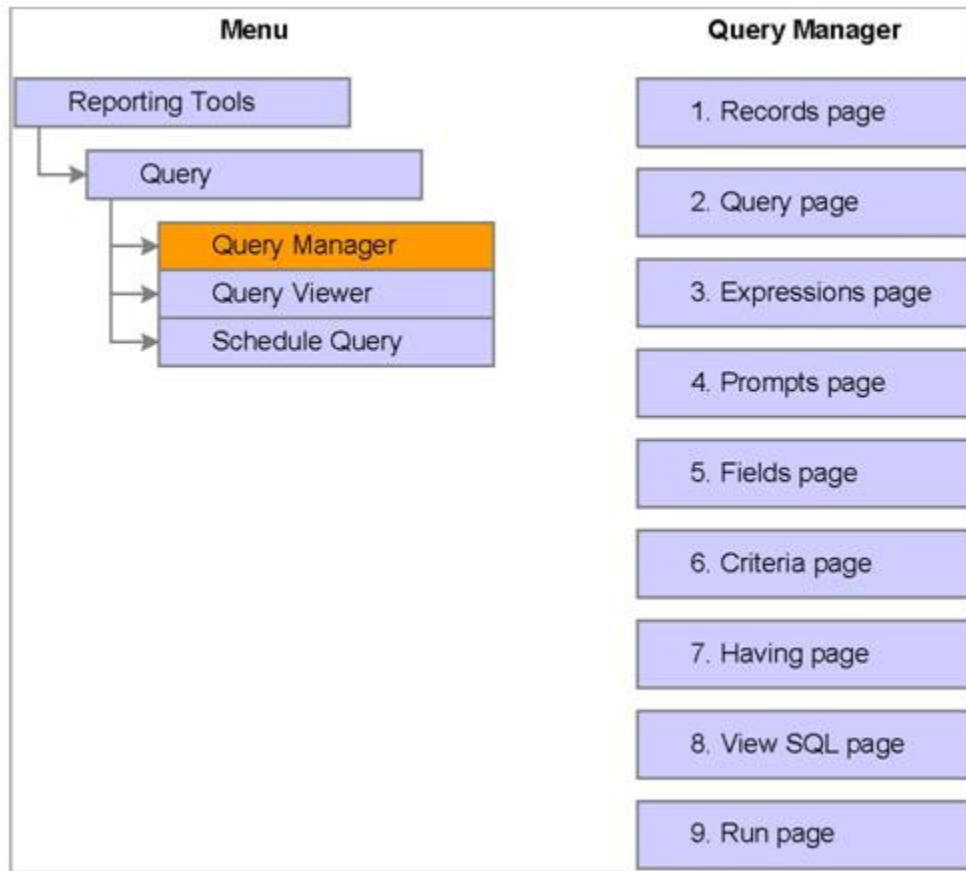
To move queries to folders:

1. Select the queries.
2. Select **Move to Folder** from the Action dropdown list box.
3. Click the Go button.
4. Select an option.
 - a. The option enables you to select an existing folder.
 - b. The second option enables you to create a folder.
5. Click the Go button.

Query Manager

You can create, edit, and organize using Query Manager.

This diagram illustrates the menu navigation and pages of Query Manager:

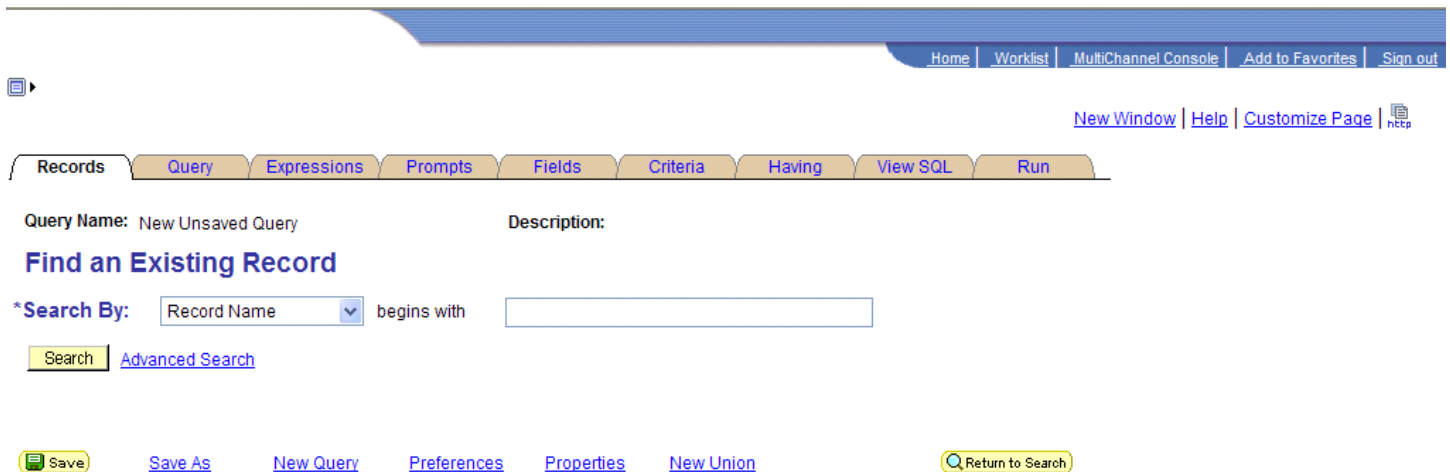


Query Manager:

- Is browser-based.
- Is organized to facilitate ease of use.
- Enables you to create queries that retrieve data without having to know Structured Query Language (SQL).

Query Manager Pages:

The pages of Query Manager enable you to tailor queries to retrieve data that is specific to the business needs of users.

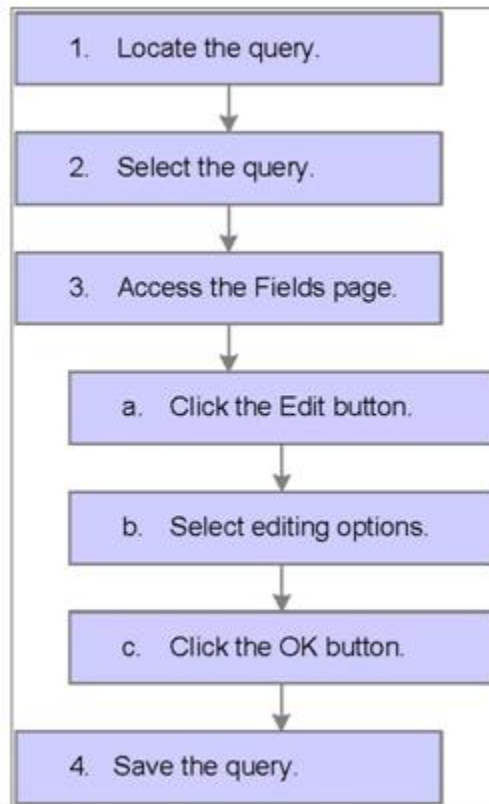


This table lists the name and purpose of each of the Query Manager pages:

Query Manager Page	Purpose	Required/Optional
Records	Select the records you use in the query. You must select at least one record before you can create and save a query.	
Query	Select the fields that you need for the query. You must select at least one record before you can create and save a query.	
Expressions	Create formulas to use with the query.	
Prompts	Create runtime prompts.	
Fields	View, edit, sort, and reorder fields that appear in a query.	
Criteria	Filter data to retrieve only those rows that you need to see.	
Having	Create criteria for fields that use aggregate functions.	
View SQL	View the SQL that is generated when the query is created.	
Run	View the results of the query.	

Steps Used to Edit Fields in an Existing Query

Use the following steps to edit fields in an existing query:



Pages Used to Edit Fields in an Existing Query

1. Navigate – Select Reporting Tools, Query, Query Manager
2. Search for and open an existing query. (for example you can enter a qualifier of - NC_)
3. Select the Fields tab.
4. Click the appropriate Edit button on the Fields page.

[Home](#) | [Worklist](#) | [MultiCha](#)

[New W](#)

[Records](#) | [Query](#) | [Expressions](#) | [Prompts](#) | **[Fields](#)** | [Criteria](#) | [Having](#) | [View SQL](#) | [Run](#)


Query Name: PER703__COURSE_TBL **Description:** PER703--Course Tbl

View field properties, or use field as criteria in query statement. [Reorder / Sort](#)

Col	Record.FieldName	Format	Ord	XLAT	Agg	Heading Text	Add Criteria	Edit	Delete
1	A.COURSE - Course Code	Char6				Course		Edit	-
2	A.DESCR - Description	Char30				Description		Edit	-
3	A.DESCRSHORT - Short Description	Char10				Short Desc		Edit	-
4	A.COURSE_STATUS - Course Status	Char1		N		Status		Edit	-
5	A.COURSE_TYPE - Course Type	Char1		S		Type		Edit	-
6	A.INTERNAL_EXTERNAL - Internal/External	Char1		N		Int/Ext		Edit	-
7	A.DURATION_TIME - Duration Time	Num5.1				Duration		Edit	-
8	B.DESCRSHORT - Short Description	Char10				Duration Interval		Edit	-
9	A.SCHOOL_CODE - School Code	Char10				School Cd		Edit	-
10	A.SCHOOL - School Name	Char30				School Name		Edit	-

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [New Union](#) [Return to Search](#)

Using the Fields Page

Button	Usage
Reorder / Sort	Click this button to determine: <ul style="list-style-type: none"> Field-by-field the sort order and direction of the query results. The order that the columns will appear in the query results.
Add Criteria	Click this button  to determine any conditional criteria for the selected field.
Edit	Click the Edit button to display the properties of the individual field.
Delete (minus sign)	Click this button to delete the associated field from the query.

Note: The fields that you select on the Records page determine the fields that appear on the Fields page. Expressions that you use as fields also appear on this page.

After selecting the Edit button on the specific field you wish to change the following page will display. Use this page to edit your field properties.

Edit Field Properties

Field Name: A.COURSE_STATUS - Course Status

Heading

No Heading RFT Short
 Text RFT Long

Heading Text:

*Unique Field Name:

Aggregate

None
 Sum
 Count
 Min
 Max
 Average

Translate Value

None Short Long

Effective Date for Short/Long

Current Date
 Field
 Expression

[Add Prompt](#) [Add Field](#)

Group Box	Usage
Heading	Use this field to edit the label heading in a query.
Aggregate	Use this feature to apply aggregate functions to a field.
Translate Value	Only if the field has Translate values will this box appear. We will discuss Translate values in a later chapter.

ACTIVITY 1 – Using Query Manger

(Approximately 20 min)

Activity overview:

- Sign into the training database training ID given to you
 - Search for an existing query and create a copy
 - Create a folder and move your newly named query to that folder
 - Add a query to the My Favorite Queries list
 - Edit a query
-
-

Finding an Existing Query and Save As:

1. Click Home to start from the homepage.
2. Select Reporting Tools, Query, Query Manager.
3. Click the Advanced Search link.
4. Enter **SESSION_CODE** in the Uses Field Name field and a Capital **T** in the Query Name field.
5. Click the Search button.
6. Select the **TRAINING_SESSION** query check box in the search results.
7. Click the Edit link.
8. Scroll to the bottom of the page and click the Save As link.
9. Change the Query field to **XXX_TRAINING_SESSION** (XXX represents your initials).
10. Click the OK button to save.
11. Go back and click the Query Manager link from the left navigation menu and search for your newly named query. **XXX_TRAINING_SESSION**

Creating a Folder:

1. From the Action dropdown list select Move to Folder (make sure you have your query selected first by placing a check in the checkbox).
2. Click the Go button.
3. On the move to Folder page, select the second radio button, and enter your **ONYEN** in the blank field.
4. Click the OK button.

Adding Queries to My Favorite Queries List:

1. Select the Select check box of the XXX_TRAINING_SESSION query in the query search list.
2. Select the Add to Favorites option from the Actions dropdown list box.
3. Click the Go button and examine the search page.
4. You should be able to see your new folder in the dropdown list in the first radio button option.
5. Select your folder and click the OK button.
6. Go back to the search page.

Editing a Query:

1. On the Search page search for your query again.
2. Click the Edit link of the XXX_TRAINING_SESSION query in the My Favorite Queries list.
3. Select the Run tab from Query Manager to view the query results.
4. Select the Fields tab to edit the column headings.
5. Click the Edit button of the SESSION_CODE field.
6. Select the Text option from the Edit Field Properties page.
7. Enter Course Session for the Heading Text, and click the OK button.
8. Click the Delete button for the HOLIDAY_SCHEDULE field.
9. Save the query.
10. Select the Run tab to view the results of the XXX_TRAINING_SESSION query.

Chapter 3

Creating a Simple Query

Methods to Create a Query

You can use either of these two methods to create a query:

- Click the Create new Query link on the Query Manager search page.
- Click the new Query link at the bottom of the pages that are in Query Manger.

Creating a Simple Query

To create a simple query:

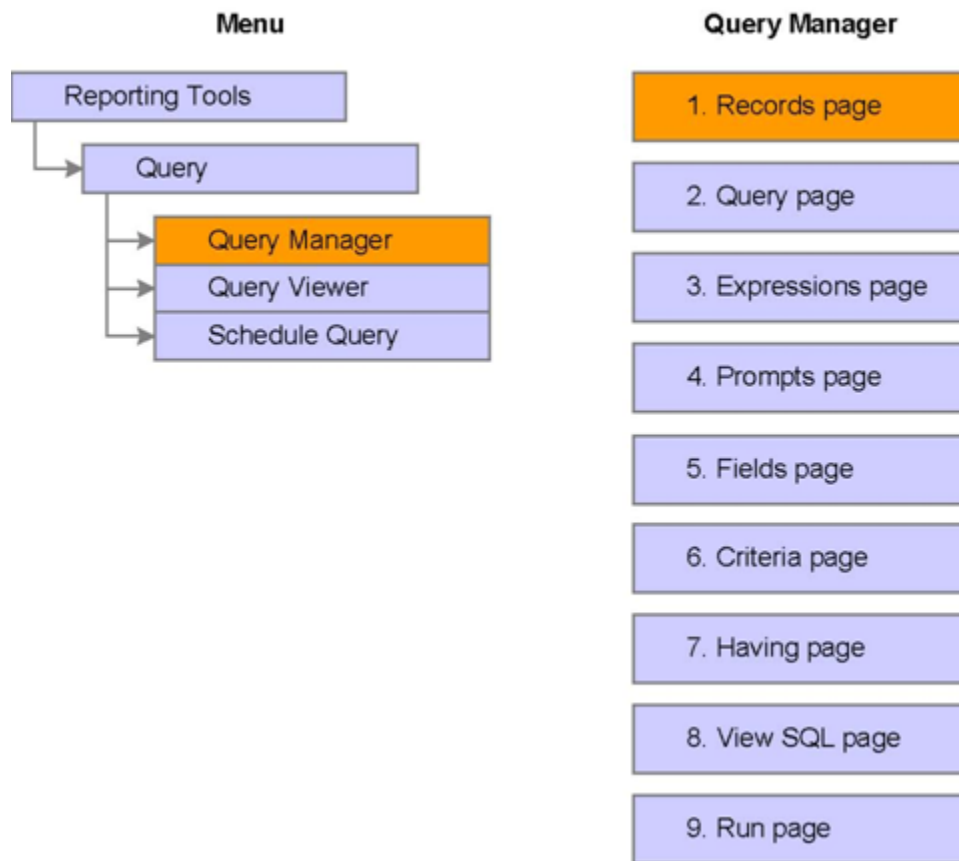
- Access Query Manager,
- Select a record on the Records page that you want to create a query from
- Select fields on the Query page.
- Save and run the query.

Selecting Query Output and Editing Query Properties

Records Page

The first step in creating a query is selecting a record in the Records page. The record that you select establishes the primary focus of the query.

This diagram shows how to access the Records page of the Query Manager Component:



Navigation:

- Select Reporting Tools, Query, Query Manager.
- Click the Create New Query link.
- Click the Advanced Search link.

Use this page to search for and select records:

Home | Worklist | MultiC

[New](#)

Records | Query | Expressions | Prompts | Fields | Criteria | Having | View SQL | Run

Query Name: New Unsaved Query Description:

Find an Existing Record

Record Name: begins with

Description: begins with

Uses Field Name: begins with

Access Group Name: begins with 🔍

When using the IN or BETWEEN operators, enter comma separated values without quotes. i.e. JOB,EMPLOYEE,JRNL_LN.

[Basic Search](#)

[Save As](#) [New Query](#) [Preferences](#) [Properties](#) [New Union](#)

Using the Records Page

- The Records page appears after you click the Create New Query or the New Query link.
- The Records search page provides basic and advanced search options.
- You have to click the Search button to display a list of records based on the search criteria that you enter.
- You must select at least one record and at least one field to create a query.

Links and Buttons on the Records Search Page

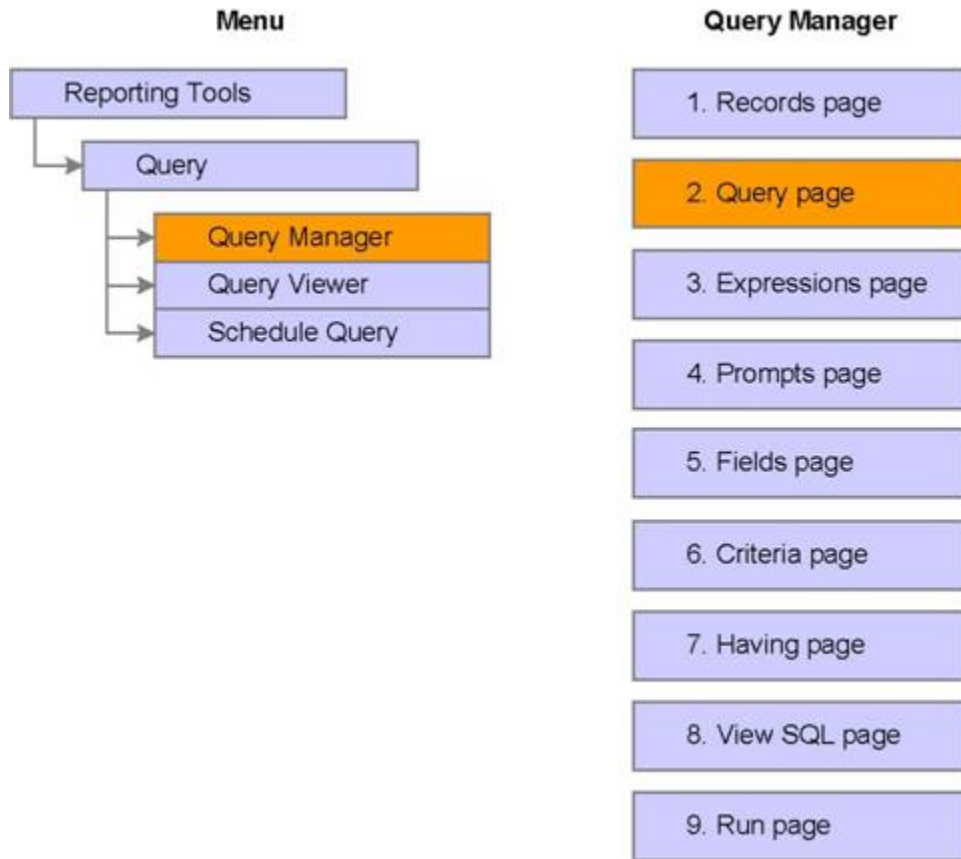
This table explains the links and buttons on the Record basic and advanced search page:

<i>Link or Button</i>	<i>Usage</i>
Basic Search	Click this link to access the Records basic search page.
Advanced Search	Click this link to access the Records advanced search page that offers more fields to use when filtering the search results.
Search	Click this button to retrieve results from the entered search criteria.
Clear	Click this button to clear any entered criteria from the search fields.
Add Record	Click this link to add the record to the new query.
Show Fields	Click this link to view the fields prior to selecting a record for the query.

Query Page

After you select a record, the Query page appears and enables you to select the fields used in the query.

This diagram shows how to access the Query page of the Query Manager component:



Navigation:

- Select Reporting Tools, Query, Query Manager.
- Click the Create New Query link.
- Click the Search button.
- Click the appropriate Add Record link.

The screenshot shows a web-based query management interface. At the top right, there are navigation links for 'Home', 'Worklist', and 'MultiCh'. Below this is a 'New V' link. A horizontal menu contains tabs for 'Records', 'Query', 'Expressions', 'Prompts', 'Fields', 'Criteria', 'Having', 'View SQL', and 'Run'. The 'Query' tab is active, showing 'Query Name: New Unsaved Query' and 'Description:'. Below the description is a text instruction: 'Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.' To the right of this text is a small icon. Below the instruction is a section titled 'Chosen Records' with a sub-header 'Alias Record'. It shows a folder icon next to 'A CRSE_CATALOG - Course Catalog Data' and a 'Hierarchy Join' link with a minus sign. There are two buttons: 'Check All Fields' and 'Uncheck All Fields'. Below these is a table of fields with checkboxes and a 'Fields' header. The table includes fields like 'CRSE_ID - Course ID', 'EFFDT - Effective Date', 'EFF_STATUS - Status as of Effective Date', 'DESCR - Description', 'EQUIV_CRSE_ID - Equivalent Course Group', and 'CONSENT - Type of Consent Required'. There are also icons for adding and removing fields. A link 'Join CRSE_EQUIV_TBL - Course Catalog Equivalencies' is visible next to the EQUIV_CRSE_ID field. At the top of the fields table, there are navigation controls: 'Find | View All', 'First', '1-28 of 28', and 'Last'.

Home | Worklist | MultiCh

New V

Records | Query | Expressions | Prompts | Fields | Criteria | Having | View SQL | Run

Query Name: New Unsaved Query Description:

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

Alias Record

A CRSE_CATALOG - Course Catalog Data Hierarchy Join -

Check All Fields Uncheck All Fields

Fields Find | View All First 1-28 of 28 Last

<input type="checkbox"/>	CRSE_ID - Course ID	
<input type="checkbox"/>	EFFDT - Effective Date	
<input type="checkbox"/>	EFF_STATUS - Status as of Effective Date	
<input type="checkbox"/>	DESCR - Description	
<input type="checkbox"/>	EQUIV_CRSE_ID - Equivalent Course Group	Join CRSE_EQUIV_TBL - Course Catalog Equivalencies
<input type="checkbox"/>	CONSENT - Type of Consent Required	

Effective-Dated Tables

If you select a record that contains the EFFDT field, PeopleSoft Query automatically add effective date criteria to the query and displays a message as in the example:

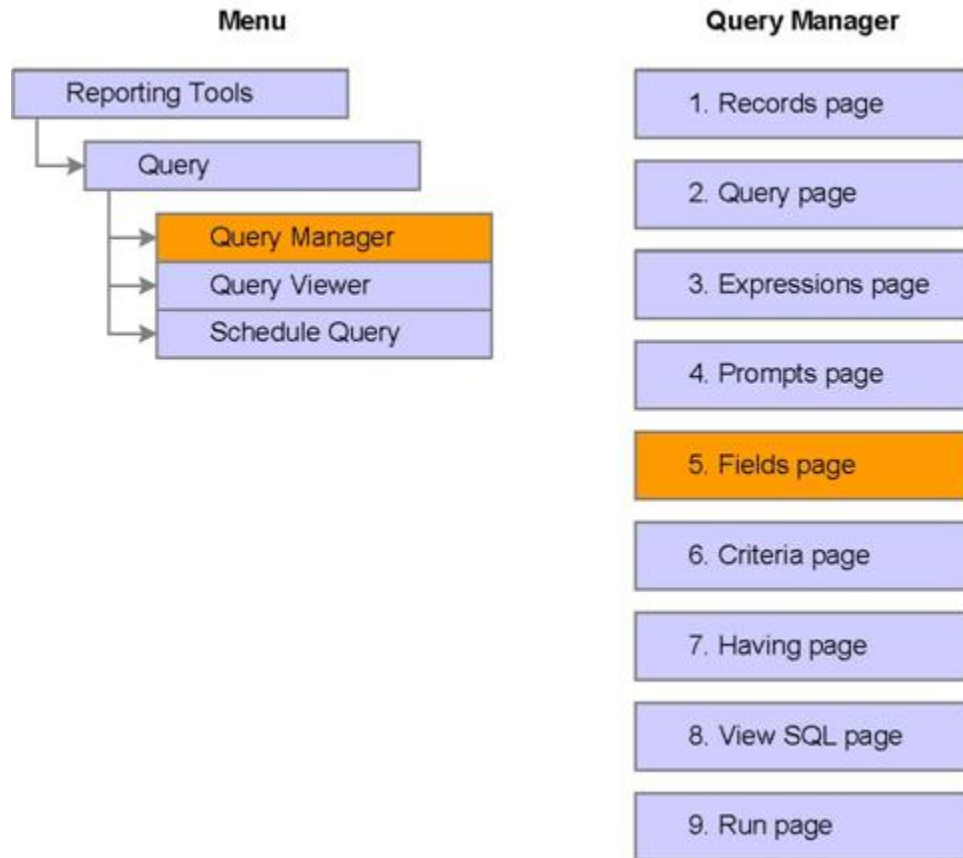
The screenshot displays the PeopleSoft Query interface. At the top, there are navigation tabs: Records, Query, Expressions, Prompts, Fields, Criteria, Having, View SQL, and Run. The 'Query' tab is active, showing a 'Query Name: New Unsaved Query'. Below this, there are instructions: 'Click folder next to record to show fields additional records by clicking the record'. A 'Chosen Records' section shows a record 'A CRSE_CATALOG - Course Catalog Data'. Below the record, there are buttons for 'Check All Fields' and 'Uncheck All Fields'. A 'Fields' table is displayed with columns for field selection, field name, and join options. The fields listed are: CRSE_ID - Course ID (with a key icon), EFFDT - Effective Date (with a key icon), EFF_STATUS - Status as of Effective Date, DESCR - Description, EQUIV_CRSE_ID - Equivalent Course Group, and CONSENT - Type of Consent Required. A 'Hierarchy Join' link is visible next to the record. A message box from 'Windows Internet Explorer' is overlaid on the screen, containing a warning icon and the text: 'An effective date criteria has been automatically added for this effective dated record. (139,60)'. The message box has an 'OK' button.

Fields and Buttons on the Query Page

This table describes the fields and buttons on the Query page:

Field or Button	Description
AZ	Click this button to sort fields.
Hierarchy Join	Click this link to join parent-child records.
Delete button (minus sign)	Click this button to delete the displayed record.
Check All Fields	Click this button to select all of the fields in the record.
Uncheck All Fields	Click this button to clear all selected fields.
Key	Identifies the key fields in a record.
Join link	Identifies related-record joins by using record prompts.
Add Criteria	Click to filter data from the query.
Fields column	Select these check boxes to select fields.

The Fields Page



Navigation:

- Select Reporting Tools, Query, Query Manager.
- Click the Create new Query link.
- Click the Search button, and click the appropriate Add Record link.
- Select the Fields tab.

Use this page to edit field properties and to determine column and sort order.

Home | Worklist | MultiCh

New V

Records | Query | Expressions | Prompts | **Fields** | Criteria | Having | View SQL | Run

Query Name: TRAINING_SESSION **Description:** Table for Query Basics

View field properties, or use field as criteria in query statement. Reorder / Sort

Fields									
Col	Record.Fieldname	Format	Ord	XLAT	Agg	Heading Text	Add Criteria	Edit	Delete
1	A.INSTITUTION - Academic Institution	Char5				Institution		Edit	
2	A.ACAD_CAREER - Academic Career	Char4	1			Career		Edit	
3	A.STRM - Term	Char4	2			Term		Edit	
4	A.SESSION_CODE - Session	Char3		N		Session		Edit	
5	A.SESS_BEGIN_DT - Session Beginning Date	Date				Begin Date		Edit	
6	A.SESS_END_DT - Session End Date	Date				End Date		Edit	
7	A.ENROLL_OPEN_DT - Open Enrollment Date	Date				Open Enrl		Edit	
8	A.SESSN_ENRL_CNTL - Enrollment Control Session	Char3				Session		Edit	
9	A.SESSN_APPT_CNTL - Appointment Control Session	Char3				Session		Edit	
10	A.FIRST_ENRL_DT - First Date to Enroll	Date				Enr Dt 1st		Edit	

Fields and Buttons on the Fields Page

This table describes the fields and buttons on the Fields page:

Field or Button	Usage
Reorder/Sort	Displays the Edit Field Ordering page, which enables users to change the column order and sort properties of the query.
Col	Indicates the order in which the field appears in the query results.
Record Fieldname	Displays the field name, as it is stored in the database.
Format	Indicates the format of the field as it is defined in the database.
Ord	Indicates if the field is selected for sorting.
XLAT	Indicates if the field is a code from the Translate table.
Agg (aggregate)	Indicates if an aggregate function is assigned to this field.
Heading Text	Displays the default text as defined in the database.
Add Criteria	Click to add a row of criteria to the query. Criteria are used to filter data in a query.
Edit	Click to access the Edit Field Properties page and format the query output.
Delete	Click to delete the associated field from the query.

Order By Feature

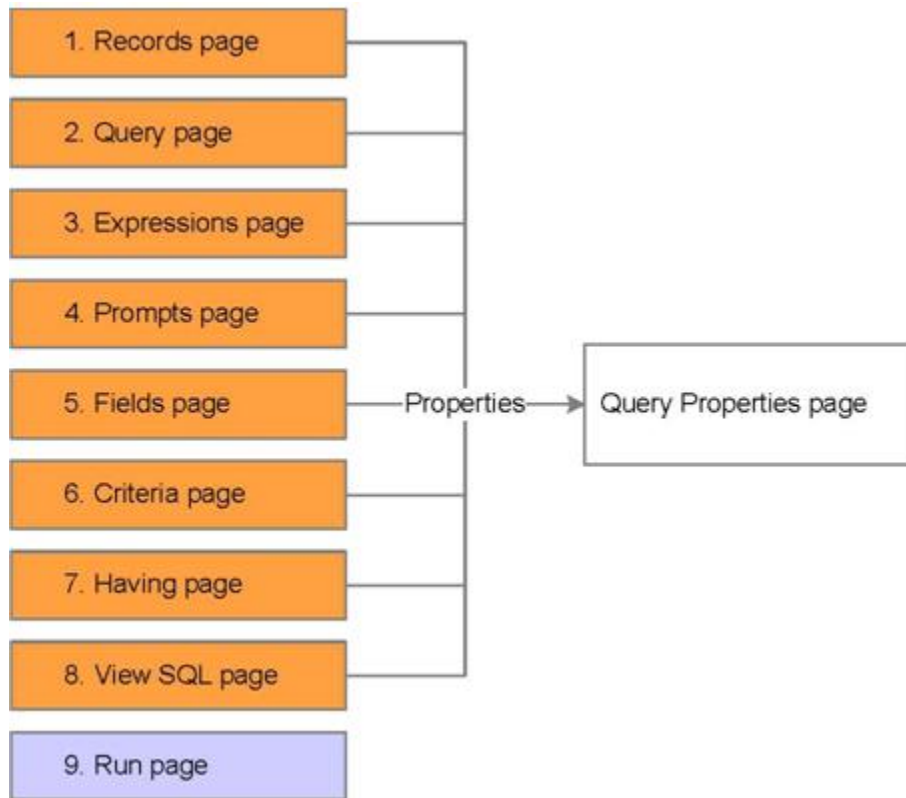
The Order By feature places a number next to the field indicating which field is:

- A primary sort (1)
- A secondary sort (2)
- A descending primary sort (D1), and so on

Note: Descending sort means sorting from Z to A. Ascending sort means sorting from A to Z.

Query Properties Page

This diagram shows how to access the Query Properties page:



Query Properties Page

The Query Properties page enables you to enter or view additional information regarding the query, such as:

- The query name.
- The query description.
- The query user type.
- The folder with which the query is associated.
- Whether the query is public or private.
- The query definition.

Note: The first time that you save a new query, the Query Properties page appears to enable you to document the query. Be aware, however, that you cannot save queries by using the Query Properties page.

Navigation:

- Select Reporting Tools, Query, Query Manager.
- Create a new query or open an existing query.
- Click the Properties link.

Use this page to document additional information regarding the query.

Query Properties

*Query:	<input type="text" value="TRAINING_SESSION"/>
Description:	<input type="text" value="Table for Query Basics"/>
Folder:	<input type="text"/>
*Query Type:	<input type="text" value="User"/> ▼
*Owner:	<input type="text" value="Public"/> ▼ <input type="checkbox"/> Distinct
Query Definition:	<div style="border: 1px solid gray; padding: 5px;"><p>This query was created for the purpose of being utilized in the Query Basics Training classes.</p></div>
Last Updated Date/Time: 05/07/2008 3:34:39PM	
Last Update User ID: mjh43	
<input type="button" value="OK"/>	<input type="button" value="Cancel"/>

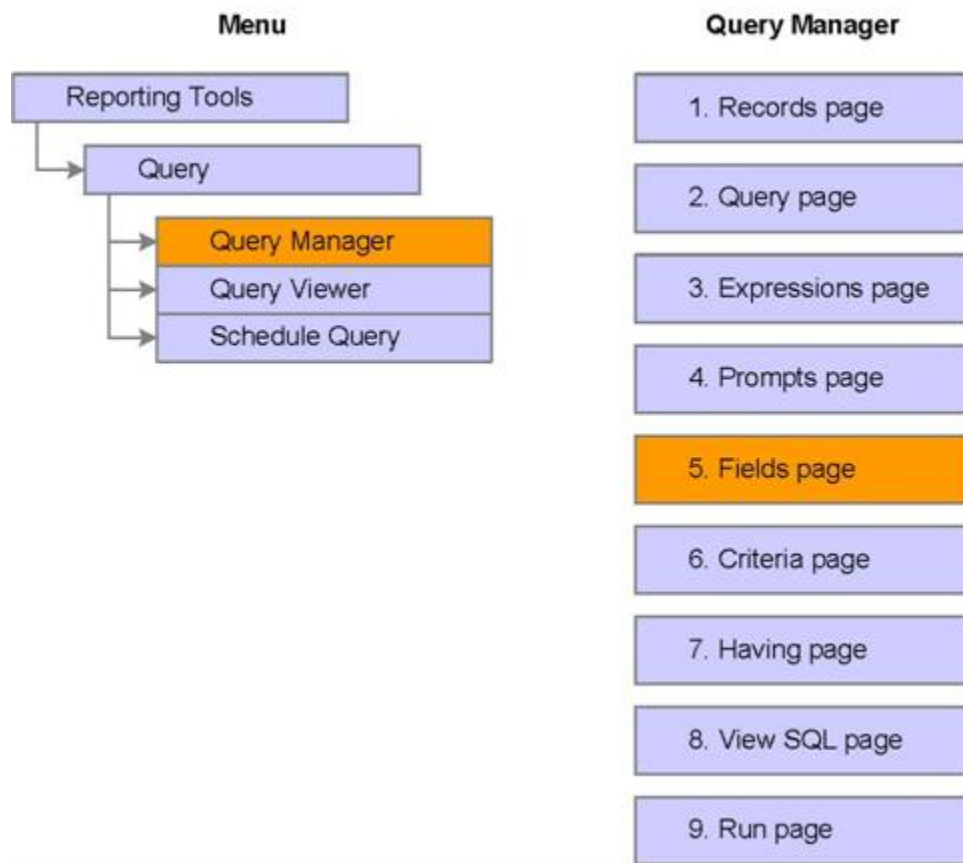
Fields on the Query Properties Page

This table explains the fields that are on the Query Properties page:

Field	Usage
Query	Enter a query name. Query names are uppercase and can be up to 30 characters. You cannot have spaces or any special characters except an underscore.
Description	Enter a description up to 30 characters. Descriptions can include mixed case and special characters.
Folder	Assign or create folders to store the queries.
Query Type	Assign one of four query types to a query: Archive, Process, Role, or User
Owner	Displays who has access to the query. Private: The default value that appears in the Owner field. Only the user that creates the query can open, modify, or delete the query. Only the user who creates the query can open, run, modify, delete the query or change the owner to <i>Public</i> . Public: Any user with access to all records used for the query can run the query. Public security access is needed open, run, modify or delete the query. Only the user who creates the query can open, run, modify, delete private queries, or change security access. Any user with access to all records in the query can perform any operation on a public query if that user has rights to create a public query.
Distinct	Select to remove duplicate rows of data in a query.
Query Definition	(Optional) Enter text to further describe the query definition.

Editing Field Properties Page

This diagram shows how to access the Edit Field Properties page:



Navigation:

- Select Reporting Tools, Query, Query Manager.
 - Click the Create New Query link.
 - Click the Search button.
 - Click the appropriate Add Record link.
 - Select the Fields tab, and click the appropriate Edit button.
- Or**
- Select Reporting Tools, Query, Query Manager.
 - Search for an existing query and click the Edit link.
 - On the Fields tab, click the appropriate Edit button.

Use this page to change field column heading and to apply an aggregate function to this field:

Edit Field Properties

Field Name: A.SESSION_CODE - Session

Heading	Aggregate	Translate Value
<input type="radio"/> No Heading <input checked="" type="radio"/> RFT Short <input type="radio"/> Text <input type="radio"/> RFT Long Heading Text: <input type="text" value="Session"/> *Unique Field Name: <input type="text" value="A.SESSION_CODE"/>	<input checked="" type="radio"/> None <input type="radio"/> Sum <input type="radio"/> Count <input type="radio"/> Min <input type="radio"/> Max <input type="radio"/> Average	<input checked="" type="radio"/> None <input type="radio"/> Short <input type="radio"/> Long Effective Date for Short/Long <input checked="" type="radio"/> Current Date <input type="radio"/> Field <input type="text" value=""/> <input type="radio"/> Expression <input type="text" value=""/> Add Prompt Add Field

Changing Field Headings

To change field headings:

1. On the Fields page, click the Edit button associated with the field.
2. Select any one of the options in the Headings group box, or enter text to change the field heading.

Fields with Translate Values

When you edit a field that has translate values, the Edit Field properties page displays translate value options. You can select whether the output displays the short or long translate value.

Translate tables are effective-dated, so you must select which effective date to use for them. For most tables, PeopleSoft Query defaults to the current date, meaning that it uses the currently active list of Translate table values.

Steps Used to Set Translate Value Properties

To set Translate value properties:

1. Select the Fields page, and then click the Edit button for the field.
2. Select an option from the Translate value group box of the Edit Field Properties page.
3. Click the OK button.

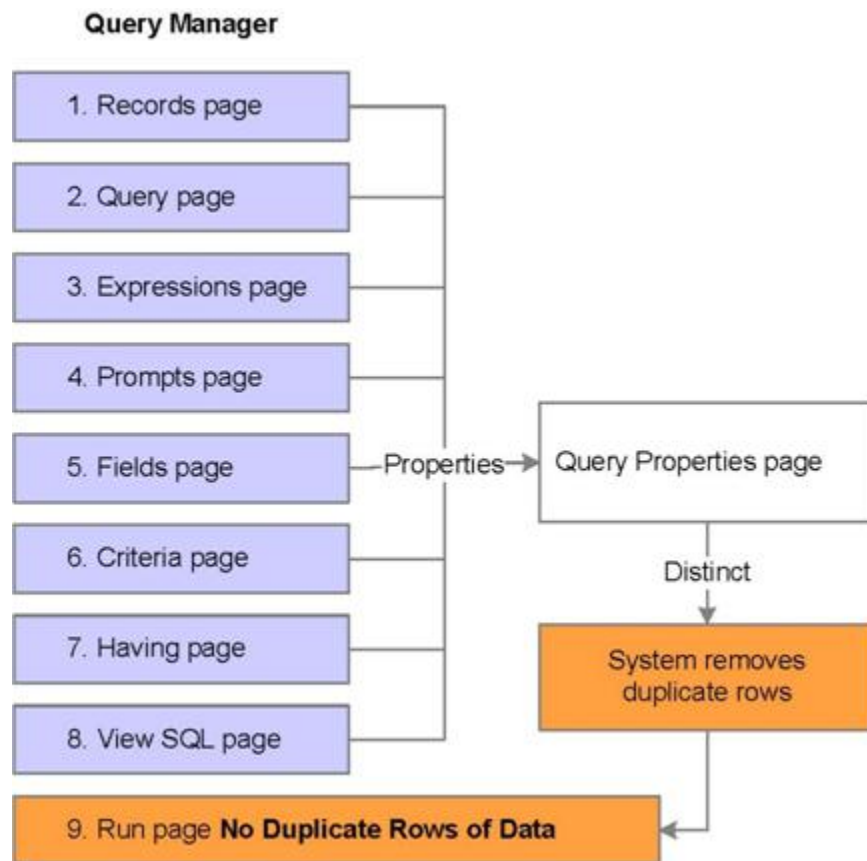
Buttons and Fields on the Edit Field Properties page

This table describes the fields and options on the Edit Field Properties page:

<i>Field or Option</i>	<i>Description</i>
No Heading	Select to display the data without a column heading.
RFT Short and RFT Long	Select the Record Field Text (RFT) short or long description as defined in the record definition.
Text	Select to manually enter the text to appear as the column heading.
Heading Text	If you select the Text option, enter the text to appear in the query results.
Unique Field Name	Used for Translations.

Removing Duplicate Rows of Data

This diagram shows the process flow to remove duplicate rows of data from a query:



Distinct Feature

Sometimes query results display the same row of data more than once.

If you enable the Distinct feature on the Query Properties page, the system removes duplicate rows of data in the results.

Removing Duplicate Rows of Data from a Query

To remove duplicate rows of data from a query:

1. Create a new query or open an existing query using Query Manager.
2. Click the Properties link found at the bottom of any page of Query Manager except the Run page.
3. Select the Distinct check box and click the OK button.
4. Save the query.
5. View the reports in the Run page.

ACTIVITY 2 – Create a Query, Remove Duplicate Rows and Edit

(Approximately 15 min)

Activity overview:

- Create a query using the RESIDENCY_SELF record
 - Remove duplicate rows of data
 - Edit a query
-
-

Create a query

1. If necessary, sign in to the database.
2. Access Query Manager.
3. Create a new query using the RESIDENCY_SELF record.
4. Select the following fields from the record COUNTRY and POSTAL and STATE.
5. Save the query as your XXX_DISTINCT, (XXX is your initials) and view the query results.
6. Answer the following question:
 - a. How many rows of data were returned? _____

Removing Duplicate Rows of Data

1. Select the Fields tab.
2. Click the Properties link to select the Query Properties page.
3. Select the Distinct check box, and click the OK button.
4. Save the query, and view the query results.
5. Answer the following question:
 - a. How many rows of data were returned? _____

Editing a Query

1. Click the Query page and select and COUNTY in addition to the other fields.
2. Select the Fields page.
3. Click the appropriate Edit buttons and make the following changes:

<i>Field</i>	<i>Heading</i>
COUNTY	Select text radio button Change to Preferred County

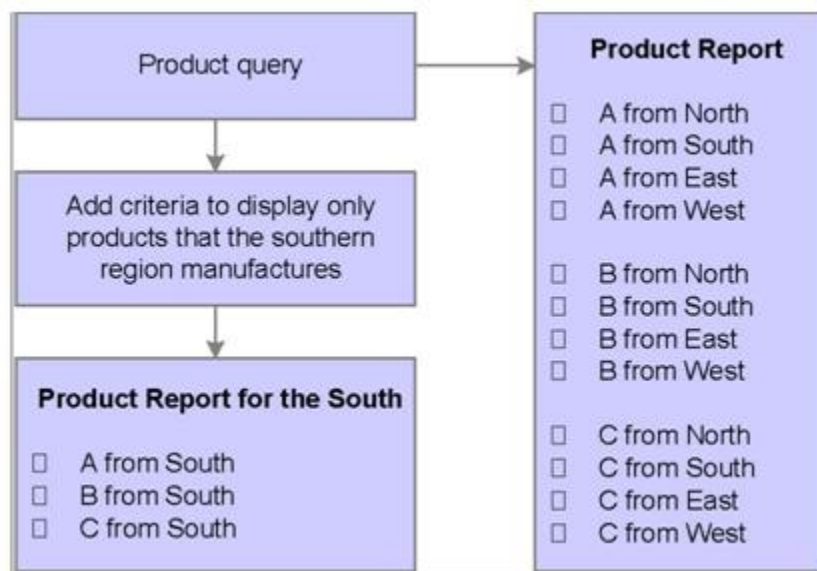
1. Click the Reorder/Sort button on the Fields page.
2. Enter 1 in the New Column field for the POSTAL, 2 in the STATE field, and click the OK button.
3. Save the query, and view the query results.

Chapter 4

Filtering Output with Criteria

Applying Criteria to Queries

This diagram shows an example of applying criteria to query:



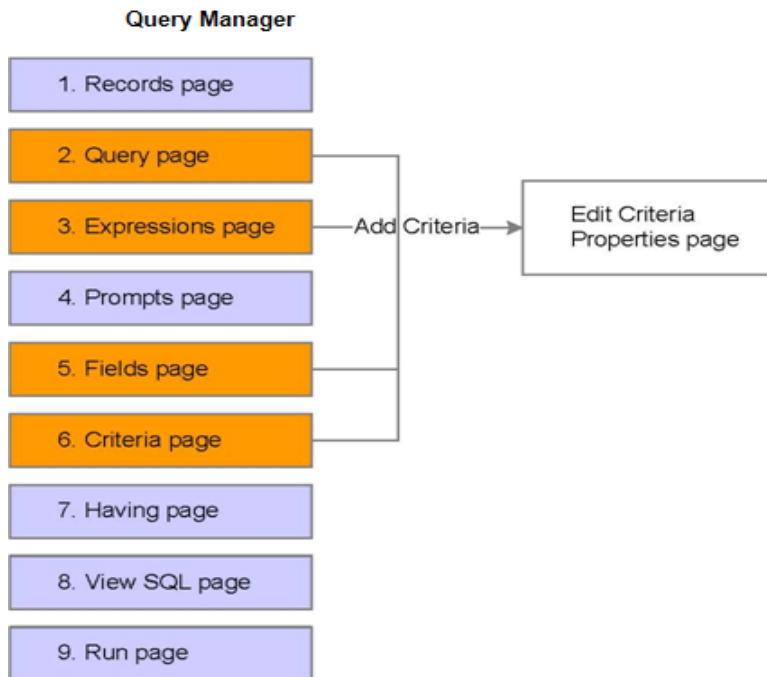
Purpose of Applying Criteria to Queries

Often you do not want to retrieve every row of data from the record that you are accessing. Criteria serve as a condition that the system applies to each row of data in the tables that you are querying. If the row meets the condition, the system retrieves it; if the row does not meet the condition, the system does not retrieve it. By defining criteria rows in the query, you:

- Potentially reduce the number of rows of data that are returned.
- Retrieve only the information that you need.




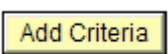
Editing Criteria Properties Page

This diagram shows the pages that you can use to access the Edit Criteria Properties page:



Accessing the Edit Criteria Properties Page

Query manager enables you to add criteria to a query in multiple ways:

- Click the Use as Criteria button (filter icon ) on the Query page.
- Click the Add Criteria button (filter icon ) on the Fields page.
- Click the Add Expression button  on the Expressions page.
- Click the Add Criteria button  on the Criteria page.

Add Criteria Button

The Add Criteria button appears as a filter icon or as a push button depending on the page that you use. When you click the Add Criteria button from any page other than the Criteria page:

- You automatically add the associated field to the Edit Criteria Properties page.
- The Edit Criteria Properties page appears, enabling you to complete the criteria as necessary.

Pages Used to Add or Modify Criteria

Page Name	Navigation
Query	Reporting Tools, Query, Query Manager
Expressions	Reporting Tools, Query, Query Manager
Fields	Reporting Tools, Query, Query Manager
Criteria	Reporting Tools, Query, Query Manager

Use this page to select fields and add criteria to queries:

Records **Query** Expressions Prompts Fields Criteria Having View SQL Run

Query Name: TRAINING_SESSION **Description:** Table for Query Basics

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

Alias Record

SESSION_TBL - Session Definition Table [Hierarchy Join](#)

Fields	Join	Filter
<input checked="" type="checkbox"/> INSTITUTION - Academic Institution	Join INSTITUTION_TBL - Institution Table	
<input checked="" type="checkbox"/> ACAD_CAREER - Academic Career	Join ACAD_CAR_TBL - Academic Career Table	
<input checked="" type="checkbox"/> STRM - Term	Join TERM_TBL - Term Definition Table	
<input checked="" type="checkbox"/> SESSION_CODE - Session		
<input checked="" type="checkbox"/> SESS_BEGIN_DT - Session Beginning Date		
<input type="checkbox"/> SESS_END_DT - Session End Date		
<input checked="" type="checkbox"/> ENROLL_OPEN_DT - Open Enrollment Date		
<input type="checkbox"/> SESSN_ENRL_CNTL - Enrollment Control Session		
<input checked="" type="checkbox"/> SESSN_APPT_CNTL - Appointment Control Session		

Add Criteria

Use this page to work with expressions and add criteria to queries:

Records Query **Expressions** Prompts Fields Criteria Having View SQL Run

Query Name: TRAINING_SESSION Description: Table for Query Basics

Add Expression

Expressions List		Customize	Find	First	1-2 of 2	Last
Expression Text	Use as Field	Add Criteria	Edit	Delete		
A.INSTITUTION	Use as Field		Edit	-		
A.SESSION_CODE	Use as Field		Edit	-		

Save Save As New Query Preferences Properties New Union Return to Search

Use this page to edit fields and add criteria to queries:

Records Query Expressions Prompts **Fields** Criteria Having View SQL Run

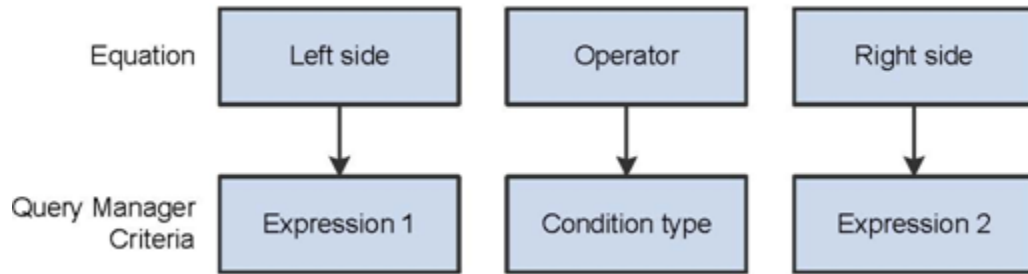
Query Name: TRAINING_SESSION Description: Table for Query Basics

View field properties, or use field as criteria in query statement. Reorder / Sort

Fields		Customize	Find	View All	First	1-13 of 13	Last		
Col	Record.Fieldname	Format	Ord	XLAT	Agg	Heading Text	Add Criteria	Edit	Delete
1	A.INSTITUTION - Academic Institution	Char5				Institution		Edit	-
2	A.ACAD_CAREER - Academic Career	Char4	1			Career		Edit	-
3	A.STRM - Term	Char4	2			Term		Edit	-
4	A.SESSION_CODE - Session	Char3		N		Session		Edit	-
5	A.SESS_BEGIN_DT - Session Beginning Date	Date				Begin Date		Edit	-
6	A.ENROLL_OPEN_DT - Open Enrollment Date	Date				Open Enrl		Edit	-
7	A.SESSN_APPT_CNTL - Appointment Control Session	Char3				Session		Edit	-
8	A.FIRST_ENRL_DT - First Date to Enroll	Date				Enr Dt 1st		Edit	-
9	A.HOLIDAY_SCHEDULE - Holiday Schedule	Char6				Hol Sched		Edit	-
10	A.WEEKS_OF_INSTRUCT - Weeks of Instruction	Num2.0				Instr Week		Edit	-
11	A.FACILITY_ASSIGNMNT - Facility Assignment Run Date	Date				Run Date		Edit	-

Query criteria are like an equation. As with an equation, query criteria consist of a left side, an operator, and a right side.

This diagram shows the comparison between equations and query criteria:



Page Used to Filter Data

Page Name	Navigation
Edit Criteria Properties	1. Select the Query page. 2. Click the appropriate Use as Criteria button. Or 1. Select the Expressions page. 2. Click the appropriate Add Criteria icon. Or 1. Select the Fields page. 2. Click the appropriate Add Criteria icon.

Use this page to define the criteria:

Edit Criteria Properties

Choose Expression 1 Type

Field

Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:

*Condition Type:

Choose Expression 2 Type

Field

Expression

Constant

Prompt

Subquery

Expression 2

Define Prompt

Prompt: :1

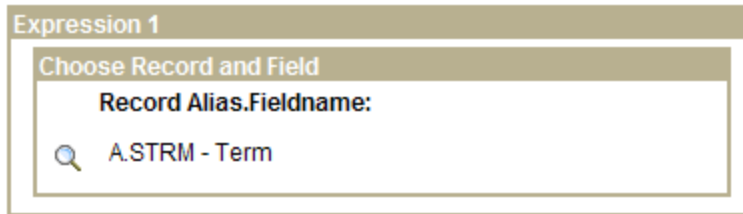
Areas Used to Filter Data

This table explains each element of the Edit Criteria properties page:

<i>Element</i>	<i>Purpose</i>
Choose Expression 1 Type	Determines whether the first part of the selection criteria is based on a field or an expression.
Expression 1	Contains the value of the first part of the selection criteria.
Condition Type	Determines how Query Manager compares the first expression value to the second expression value.
Choose Expression 2 Type	Determines whether the second part of the selection criteria is based on a field, an expression, a constant, a prompt, a subquery, etc.
Expression 2	Contains the value of the second part of the selection criteria.

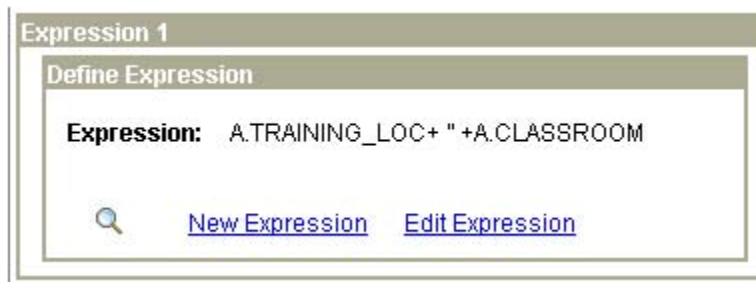
Using Fields as Criteria in Expression 1

To use a field as criteria in expression 1, click the lookup button to select one field from the list of fields in the record:



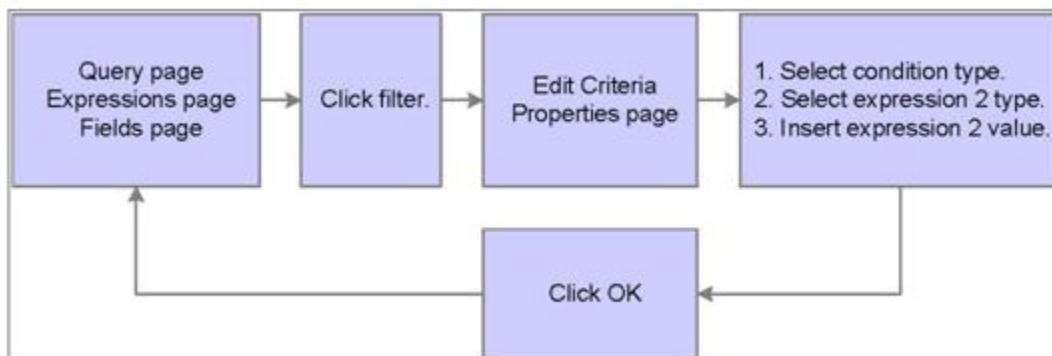
Using Expressions as Criteria in Expression 1

To use an expression as criteria in expression 1, use one of the links or the lookup button to search for or edit an existing expression, or create a new expression.



Steps used to Add Criteria

This diagram shows the process flow that you use to add criteria:



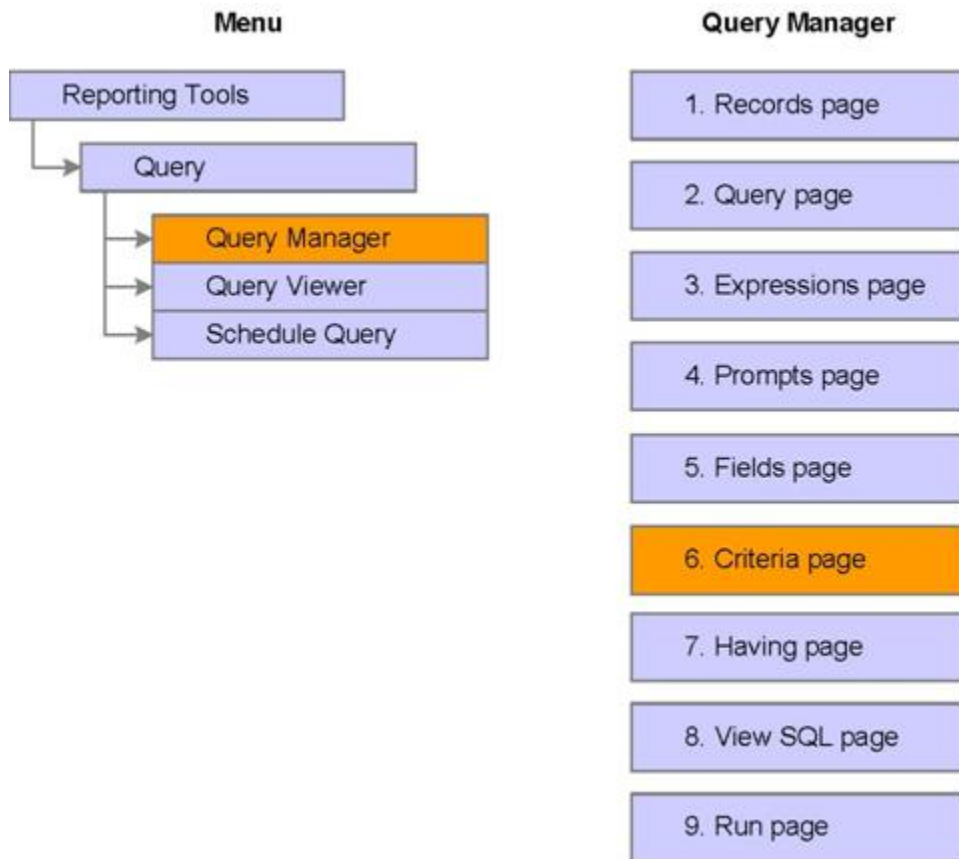
Using the Edit Criteria properties Page

When you use the Criteria Properties page, you should note that:

- Clicking Add Criteria button – whether from the Query page, the Fields page, or the Expression page – automatically inserts the associated field or expression in the Expression 1 section of the Edit Criteria Properties page.
- The Choose Expression 2 Type field varies depending on the option that you select in the Condition Type field.
- The Expression 2 field varies depending on the option that you select in the Choose Expression Type 2 field.

Criteria Page

This diagram shows how to access the Criteria page of Query Manager:



Page Used to Enter Selection Criteria for the Query

Page Name	Navigation
Criteria	<ol style="list-style-type: none"> 1. Select Reporting Tools, Query, Query Manager. 2. Click the Create New Query link. 3. Search for records, and click the appropriate Add Record link. 4. Select fields on the Query page. 5. Select the Criteria tab.

Use this page to add and edit criteria or to view the new row of criteria after you create it from the Edit Criteria Properties page:

Records Query Expressions Prompts Fields **Criteria** Having View SQL Run

Query Name: TRAINING_SESSION Description: Table for Query Basics

Add Criteria Group Criteria Reorder Criteria

Criteria	Expression1	Condition Type	Expression 2	Edit	Delete
<input type="text"/>	A.SESS_BEGIN_DT - Session Beginning Date	between	2008-05-01 AND 2008-05-30	Edit	<input type="button" value="-"/>
AND	A.SESSION_CODE - Session	equal to	:1	Edit	<input type="button" value="-"/>

Save Save As New Query Preferences Properties New Union Return to Search

Functionality of the Criteria Page

You can add criteria directly on the Criteria page, but the user must then take the extra step of selecting the field for expression 1, which might be a considerable task on larger records.

This table describes the elements of the Criteria page:

Element	Use
Add Criteria	Inserts a row of criteria into the query. <i>Note: Query Manager enables you to use one or multiple rows of criteria in a single query.</i>
Group Criteria	Enables you to apply multiple selection criteria as one criterion.
Reorder Criteria	Enables you to reorder criteria rows without deleting the existing criteria.
Logical operator list	Enables you to select the Boolean operators AND, AND NOT, OR and OR NOT.
Edit	Modifies the existing row of criteria.
Delete (minus sign)	Deletes the row of selected criteria.

Refining Criteria

Condition Types

The more you use Query Manager, the more you are likely to refine queries with conditions other than the **equal to** condition.

- Query Manager provides 18 conditions that you can apply to the criteria.
- Each condition type correlates to certain expression 2 types.

This table lists the condition types and their correlation to expression 2 types:

Condition Type	Expression 2 Type
equal to not equal to greater than not greater than less than not less than	Field Expression Constant Prompt Subquery
like not like	Constant Prompt
in list not in list	In list Subquery
between not between	Const – Const Const – Field Const – Expr Field – Const Field – Field Field – Expr Expr – Const Expr – Field Expr - Expr
exists does not exist	Subquery
in tree not in tree	Tree option
is not null is null	<No Expression 2 Type>

Results from the Commonly Used Conditions

This table shows the results of these commonly used conditions:

Condition Type	Results
equal to	The value that is in the selected record field exactly matches the comparison value.
like	The value that is in the selected field matches a specified string pattern.
is null	The selected record field does not have a value in it. You do not specify a comparison value for this operator. Key fields, required fields, character fields, and numeric fields do not allow null values.
between	The value that is in the selected record field falls between two comparison values. The range is inclusive.
in tree	The value that is in the selected record field appears as a node in a tree that you create with PeopleSoft Tree Manager. The comparison value for this operator is a tree or branch of a tree that you want PeopleSoft Query to search.

Expression 2 Type

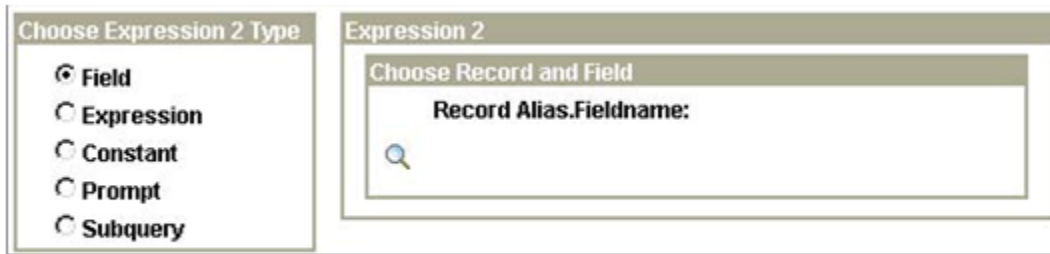
After you select a condition, you then select an expression 2 type.

Use these guidelines to choose the appropriate expression 2 type, and specify the expression to which expression 1 type compares:

Expression 2 Type	Description
Field	Compares to a field within the records selected for this query.
Expression	Compares to an expression that you create. PeopleSoft Query evaluates each row with this expression.
Constant	Compares to a single fixed value.
Prompt	Compares to a prompt that requires the user to enter values when the query runs.
Subquery	Compares to a field from another query.

Examples: Using Expression 2 Type

If you select Field as the type, the lookup button appears for you to select a field for expression 2:



The screenshot shows a window titled 'Edit Criteria Properties page'. On the left, under 'Choose Expression 2 Type', the 'Field' radio button is selected. On the right, under 'Expression 2', there is a 'Choose Record and Field' dialog box. This dialog has a search icon and a text input field labeled 'Record Alias.Fieldname:'.

Edit Criteria Properties page

If you select Expression as the type, the Add Prompt or Add Field links appear for you to select an expression for expression 2:



The screenshot shows a window titled 'Edit Criteria Properties page'. On the left, under 'Choose Expression 2 Type', the 'Expression' radio button is selected. On the right, under 'Expression 2', there is a 'Define Expression' dialog box. This dialog has an 'Expression:' label followed by a text input field with up and down arrow buttons. Below the input field are two buttons: 'Add Prompt' and 'Add Field'.

Edit Criteria Properties page

If you select Constant as the type, the Constant field appears for you to enter the expression or constant for expression 2:

The screenshot shows a web interface with two main sections. On the left, a box titled 'Choose Expression 2 Type' contains five radio button options: 'Field', 'Expression', 'Constant', 'Prompt', and 'Subquery'. The 'Constant' option is selected. On the right, a larger box titled 'Expression 2' contains a sub-section titled 'Define Constant'. This sub-section has a label 'Constant:' followed by a text input field and a magnifying glass icon to its right.

Edit Criteria Properties page

If you select Prompt as the type, the lookup button, and the New Prompt and Edit Prompt links appear for you to define the expression or prompt for expression 2:

The screenshot shows the same web interface as above. In the 'Choose Expression 2 Type' box, the 'Prompt' option is selected. In the 'Expression 2' box, the sub-section is titled 'Define Prompt'. It features a 'Prompt:' label, a magnifying glass icon, and two blue hyperlinks: 'New Prompt' and 'Edit Prompt'.

Edit Criteria Properties page

If you select Subquery as the type, the Define/Edit Subquery link appears for you to enter the expression or Subquery for expression 2:

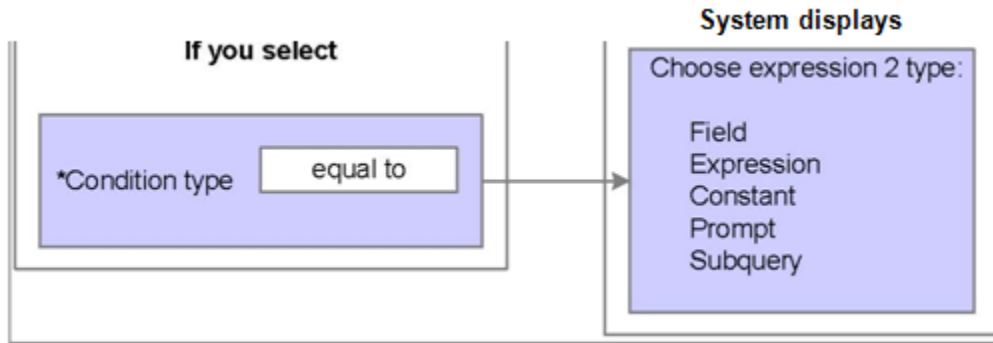
The screenshot shows the same web interface. In the 'Choose Expression 2 Type' box, the 'Subquery' option is selected. In the 'Expression 2' box, the sub-section is titled 'Define Subquery'. It contains a single blue hyperlink labeled 'Define/Edit Subquery'.

Edit Criteria Properties page

Equal to Condition

The *equal to* condition finds rows of data with values that match the constant that you specify in expression 2.

This diagram shows the expression 2 types available when you select the equal to condition type:



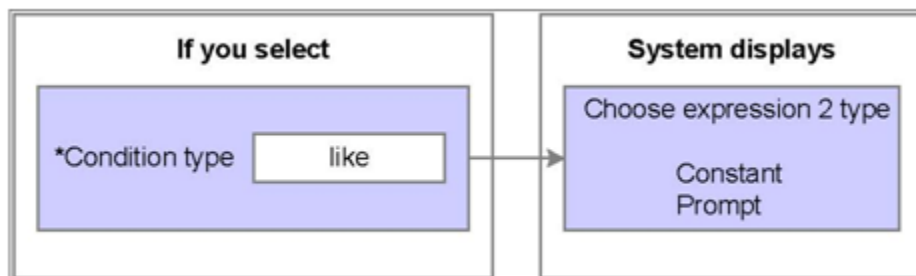
Example: Using the Equal to Condition

You can apply the condition equal to for retrieving students who are in the U.S. and by information in their program of study.

Like Condition

The *like* condition retrieves data that matches a portion of a character string.

This diagram shows the expression 2 types when you select the *like* condition type:



Constant Expressions used with the Like Condition

Any constant expression that you use with the like condition is case-sensitive. You can use wildcard characters to assist in the search for data. This table describes the use of wildcard characters:

Wildcard Character	Use
%	Any string of zero or more characters. For example, C% finds any string beginning with the letter C.
_	Any single character. For example, _ones finds any string of five characters ending with ones, such as bones and Cones.

Examples

This table gives examples of the result set when you use the *like* condition with wildcard characters:

Constant Value	Result
%Dakota	Finds anything ending in Dakota.
South%	Finds anything beginning with South.
199_	String beginning with 199 and one more character.
_an%	Finds anything with one character followed by the characters an.
%, S%	PeopleSoft name format.

Identifying Mistakes

Minor mistakes with wildcards can return radically different results, especially when using the *like* condition. Some common mistakes are:

- Entering extra spaces.
- Entering two consecutive underscores.
- Using wildcards with a condition other than the like condition.
- Discounting case-sensitivity.

Is Null Condition

You use the *is null* condition to search for fields that have no value.

The fields that PeopleSoft supports for the *is null* condition type are:

- Long character
- Image
- Date
- Time
- Datetime fields

If you select the *is null* condition, expression 2 disappears because *is null* defines the criteria for the second expression.

Between Condition

Use the between condition to filter data based on a range of two values that you specify in expression 2.

Example: Using the Between Condition

Suppose you need to retrieve students whose session begins date is *between* May 1, 2008 and May 30, 2008.

This is an example of using date fields with the *between* condition:

Edit Criteria Properties

Choose Expression 1 Type

Field
 Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:

A.SESS_BEGIN_DT - Session Begi

*Condition Type: between

Choose Expression 2 Type

Const - Const
 Const - Field
 Const - Expr
 Field - Const
 Field - Field
 Field - Expr
 Expr - Const
 Expr - Field
 Expr - Expr

Expression 2

Define Constant

*Date: 05/01/2008

Define Constant 2

*Date 2: 05/30/2008

OK Cancel

Results when you apply the between condition:

Home | Worklist | MultiChannel Console

[New Window](#) | [Help](#)

Records | Query | Expressions | Prompts | Fields | Criteria | Having | View SQL | Run

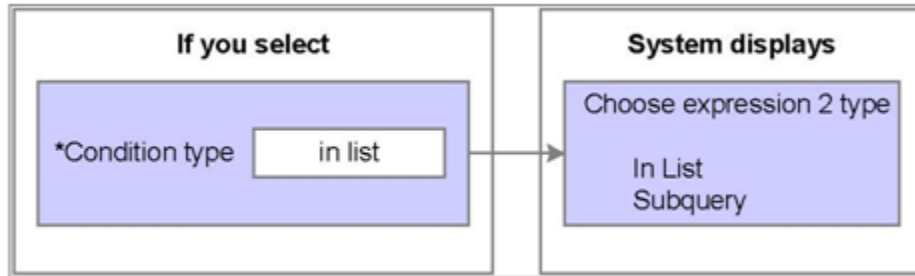
View All | [Rerun Query](#) | [Download to Excel](#) First 1-11 of 11 Last

	Institution	Career	Term	Session	Begin Date	End Date	Open Enrl	Session	Session	Enr Dt 1st	Enr Dt Last	Wait Dt	Hol Sched	Instr Week	Census Dt
1	CASE1	DENT	2086	1	05/27/2008	07/18/2008	03/10/2008			03/10/2008		05/26/2008	CASEHS	8	07/03/2008
2	CASE1	GRAD	2086	3W1	05/12/2008	05/30/2008	04/07/2008		8W1	03/10/2008		05/11/2008	CASEHS	3	07/03/2008
3	CASE1	GRAD	2086	D05	05/01/2008	05/31/2008	04/07/2008		8W1	03/10/2008			CASEHS	4	
4	CASE1	LAW	2086	1	05/19/2008	07/11/2008	04/01/2008			03/10/2008		05/18/2008	CASEHS	8	07/03/2008
5	CASE1	MGMT	2086	D05	05/01/2008	05/31/2008	07/10/2008		8W1	03/10/2008			CASEHS	4	
6	CASE1	NOND	2086	3W1	05/12/2008	05/30/2008	05/15/2008		8W1	03/10/2008		05/11/2008	CASEHS	3	07/03/2008
7	CASE1	NOND	2086	D05	05/01/2008	05/31/2008	05/01/2008		8W1	03/10/2008			CASEHS	8	
8	CASE1	NURS	2086	D05	05/01/2008	05/31/2008	04/07/2008		8W1	03/10/2008			CASEHS	4	
9	CASE1	SASS	2086	D05	05/01/2008	05/31/2008	03/20/2008		8W1	03/10/2008			CASEHS	8	
10	CASE1	UGRD	2086	3W1	05/12/2008	05/30/2008	03/31/2008		8W1	03/10/2008		05/11/2008	CASEHS	3	07/03/2008
11	CASE1	UGRD	2086	D05	05/01/2008	05/31/2008	03/31/2008		8W1	03/10/2008			CASEHS	8	

In List Condition

Use the in list condition to limit data retrieval to a predefined set of values.

This diagram shows the expression 2 types when you select the between condition type:



Example: Using the In List Condition

This is an example of using a list of career codes:

Edit Criteria Properties

Choose Expression 1 Type

Field
 Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:

A.ACAD_CAREER - Academic Caree

*Condition Type: in list

Choose Expression 2 Type

In List
 Subquery

Expression 2

Edit List

List Members: ('DENT','MGMT','NOND','UGRD','LAW','SASS')

OK Cancel

Adding Comparison Values to the List

To add comparison values to the list:

1. On the Edit Criteria Properties page, click the lookup button in the Edit list group box.
 - a. The Edit List page appears
2. Enter data in the value field.
3. Click the Add Value button.
4. Click the OK button.

Edit List

List Members Customize | Find | First 1-6 of 6 Last

- DENT
- MGMT
- NOND
- UGRD
- LAW
- SASS

Value: **Add Value** **Search** **Delete Checked Values**

OK **Cancel** [Add Prompt](#)

Searching for Values

To search for values:

1. Click the Search button.
2. Click the Look Up button and select a value.
3. Click the OK button.

Academic Institution: 🔍

Academic Career: 🔍

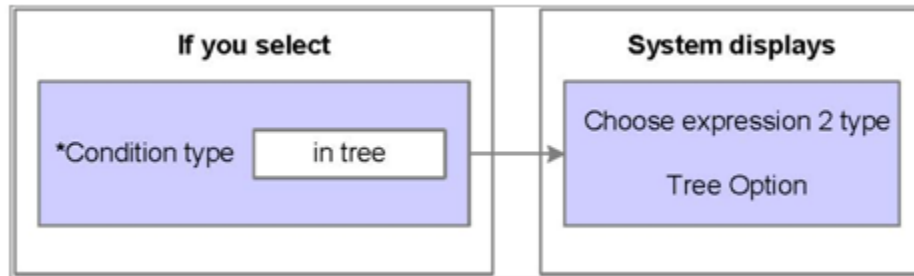
OK **Cancel**

In Tree Condition

Trees depict hierarchical structures that represent a group of summarization rules for a particular database field.

The *in tree* condition provides access to PeopleSoft Tree Manager to retrieve hierarchical data for the query.

This illustration shows the expression 2 types when you select the *in tree* condition type:



Using the PeopleSoft Tree Manager Tree Structure

Think of a tree as a visual representation of a set of summarization rules for a database field. The tree specifies how the system groups the values of the field for purposes of reporting or security access.

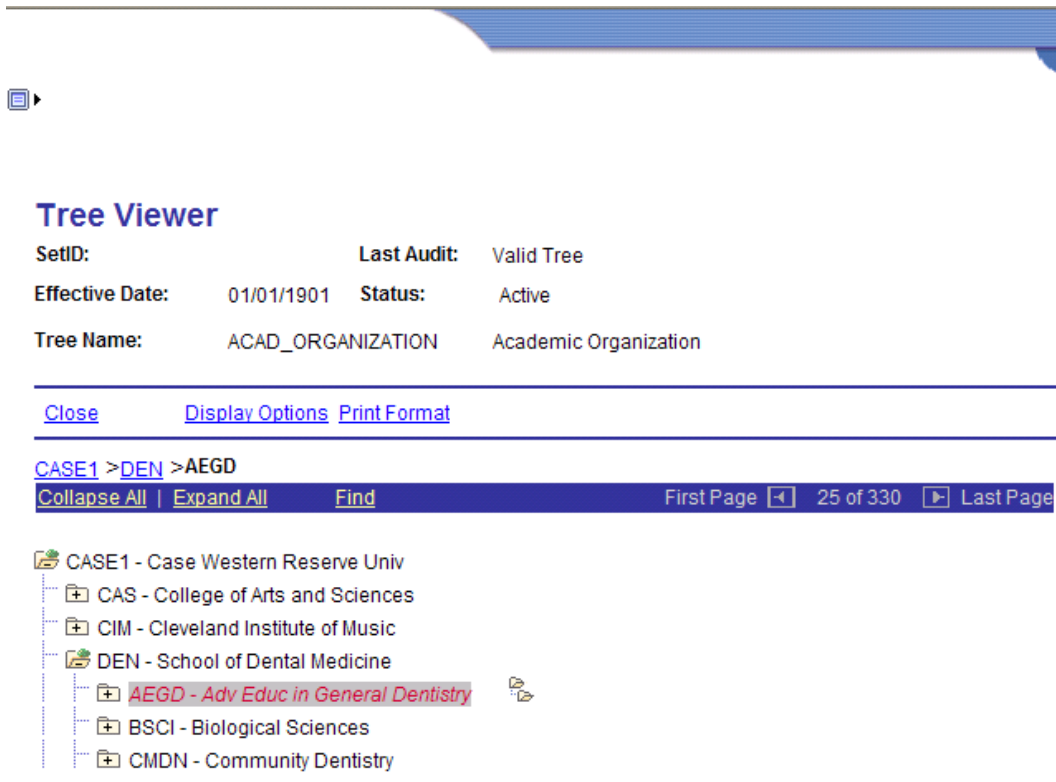
The *in tree* condition enables you to create conditions based on a hierarchy.

Example: Using the In Tree Condition

A tree can specify how to summarize or roll up Academic Organizations for reporting purposes.

Using trees, you can access information in ways that match the groupings and hierarchies that already exist in the organization.

The tree in the following example is called the ACAD_ORGANIZATION tree. This tree is built on the ACAD_ORG field and shows the subject rolls up to a particular academic organization that rolls up to the main business unit of the University.



Tree Viewer

SetID:		Last Audit:	Valid Tree
Effective Date:	01/01/1901	Status:	Active
Tree Name:	ACAD_ORGANIZATION		Academic Organization

[Close](#) [Display Options](#) [Print Format](#)

CASE1 > DEN > AEGD

[Collapse All](#) | [Expand All](#) [Find](#) First Page 25 of 330 Last Page

- CASE1 - Case Western Reserve Univ
 - CAS - College of Arts and Sciences
 - CIM - Cleveland Institute of Music
 - DEN - School of Dental Medicine
 - AEGD - Adv Educ in General Dentistry**
 - BSCI - Biological Sciences
 - CMDN - Community Dentistry

PeopleSoft Tree Manager

Query Manager provides the *in tree* condition to access hierarchical summarized data from PeopleSoft Tree Manager.

You can take advantage of the *in tree* criteria in that when you select nodes, all nodes beneath the selected nodes are automatically included.

Example: Retrieving Data Using the In Tree Condition

To retrieve a list of subjects from the School of Dental Medicine:

1. Use the ACAD_ORG field for expression 1 to retrieve the information from the ACAD_ORGANIZATION tree.

Edit Criteria Properties

Choose Expression 1 Type

Field
 Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:

A.ACAD_ORG - Academic Organiza

*Condition Type: in tree

Choose Expression 2 Type

Tree Option

Expression 2

Select Tree Node List

Node List:

Display Detail Values [New Node List](#)

OK Cancel

2. To access the ACAD_ORGANIZATION tree, click the [New Node List](#) in the Expression 2 group box on the Edit Criteria Properties page.

The Select a Tree page appears.

3. Click the Search button to display all trees on the tree list, as shown:

Select a Tree

Tree Name: contains [] Search

Tree Name	SetID	SetControlValue	Effective Date	Description	Saved As
ACAD_ORGANIZATION			01/01/1901	Academic Organization	Valid Tree
STUDENT_FINANCIALSCASE1			01/01/1901	Student Financials	Valid Tree

Cancel

4. Select the appropriate tree for the query.
In this case, use the ACAD_ORGANIZATION tree.

The Display and Select TreeNodes page appears, as shown.

Display and Select TreeNodes



SetID: Effective Date: 01/01/1901






Tree Name: ACAD_ORGANIZATION

▶ Selected Nodes List

▶ Manual Selection

[Collapse All](#) | [Expand All](#) | [Find](#) | First Page ◀ | 14 of False | ▶ Last Page

 **CASE1 - Case Western Reserve Univ** 

-  CAS - College of Arts and Sciences
-  CIM - Cleveland Institute of Music
-  DEN - School of Dental Medicine
-  ENG - Case School of Engineering
-  GRS - School of Graduate Studies
-  LAW - School of Law

5. Click the Add to node Selection list icon as shown below and then click the OK button.



Add To Node Selection List

The Edit Criteria Properties page displays the DEN which is for the School of Dental Medicine.

Edit Criteria Properties

Choose Expression 1 Type

Field

Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:

*Condition Type:

Choose Expression 2 Type

Tree Option

Expression 2

Select Tree Node List

Node List: ,,ACAD_ORGANIZATION,1901-01-01,DEN

Display Detail Values [New Node List](#) [Edit Node List](#)

OK

Cancel

6. Select the Criteria page to view the *in tree* condition that you added:

Home Worklist MultiC

Records Query Expressions Prompts Fields **Criteria** Having View SQL Run

Query Name: New Unsaved Query Description:

Add Criteria Group Criteria Reorder Criteria

Logical	Expression1	Condition Type	Expression 2	Edit	Delete
	A.EFFDT - Effective Date	Eff Date <=	Current Date	Edit	-
AND	A.ACAD_ORG - Academic Organization	in tree	„ACAD_ORGANIZATION,1901-01-01,DEN	Edit	-

Save Save As New Query Preferences Properties New Union Return to Search

7. Select the Run page to view the results with rows of data showing the subjects from the academic organization of the Dental School.



[New Window](#) | [Help](#)

[Records](#) | [Query](#) | [Expressions](#) | [Prompts](#) | [Fields](#) | [Criteria](#) | [Having](#) | [View SQL](#) | **Run**

[View All](#) | [Rerun Query](#) | [Download to Excel](#)

First Last

	Acad Org	Eff Date	Status	Descr	Institution
1	ORDX	05/01/2008	A	Oral Diagnosis & Radiology	CASE1
2	ORPT	05/01/2008	A	Oral Pathology	CASE1
3	PEDS	05/01/2008	A	Pediatric Dentistry	CASE1
4	OMFS	05/01/2008	A	Oral & Maxillofacial Surgery	CASE1
5	ENDO	05/01/2008	A	Endodontics	CASE1
6	PERI	05/01/2008	A	Periodontics	CASE1
7	DEN	05/01/2008	A	School of Dental Medicine	CASE1
8	BSCI	05/01/2008	A	Biological Sciences	CASE1
9	AEGD	05/01/2008	A	Adv Educ in General Dentistry	CASE1
10	CMDN	05/01/2008	A	Community Dentistry	CASE1
11	ORTH	05/01/2008	A	Orthodontics	CASE1
12	COMP	05/01/2008	A	Comprehensive Care	CASE1

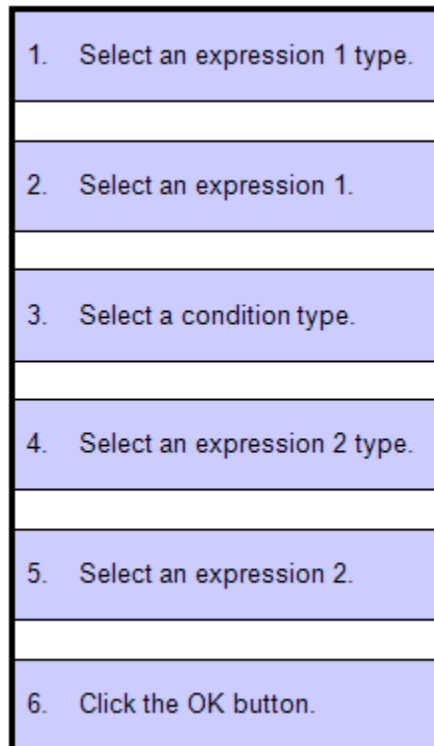
Using the In Tree and In List Conditions

The *in tree* condition works almost like the *in list* condition. The differences between using the *in tree* and *in list* condition are:

- When using the *in tree* condition, if you add field values to a tree node (for example, you add another subject to the School of Medicine), the values are automatically brought in at runtime.
- When using the *in list* condition, if you decide to add field values (for example, a new instructor or manager starts in the School of Medicine), you must update all the queries with the value.

Steps Used to Refine Criteria

This diagram shows the steps used to refine criteria and retrieve query results:



Using Multiple Criteria Statements

Boolean Expressions

There are four types of Boolean expressions available on the Criteria page.

- AND
- AND NOT
- OR
- OR NOT

If you add multiple lines of criteria to a query, you must use Boolean operators to specify the way that the system applies each criterion.

Boolean Operators

This is a list of Boolean operators and example of how you interpret each operator:

- **AND:** Returns only rows that meet the conditions of all criteria.
 - Use the AND operator to view only international students with a capital D in their names.
- **AND NOT:** Returns only rows that meet the condition that precedes this operator *but yet* do not meet the condition that follows this operator.
 - Use AND NOT operator to view only international students except for those who have a capital D in their names.
- **OR:** Returns rows that meet any condition in the criteria.
 - Use the OR operator to view all international students and all students who have a capital D in their names regardless of their citizenship status.
- **OR NOT:** Returns rows that meet the condition that precedes this operator and rows that do not meet the condition that follows this operator.
 - Use the OR NOT operator if you want to return all international students and students whose name does not have a capital D regardless of their citizenship status.

Note: The AND NOT and the OR NOT operators are likely to force table scans instead of index reads to pull data. When needed you should use NOT IN or <> for better performance.

Example: using Boolean Logic in Criteria

Suppose you want to view all courses that have all of the following conditions:

Use the record of **SESSION_TBL**

Criteria:

- The session beginning date is in 08/25/2008.
- The term is 2088
- The career is NOND

Let's test out the Boolean logic

1. Run the query with no criteria and selecting the following fields.

Records Query Expressions Prompts **Fields** Criteria Having View SQL Run

Query Name: New Unsaved Query Description:

View field properties, or use field as criteria in query statement. [Reorder / Sort](#)

Col	Record	Fieldname	Format	Ord	XLAT	Agg	Heading Text	Add Criteria	Edit	Delete
1	A.	INSTITUTION - Academic Institution	Char5				Institution		Edit	
2	A.	ACAD_CAREER - Academic Career	Char4				Career		Edit	
3	A.	STRM - Term	Char4				Term		Edit	
4	A.	SESSION_CODE - Session	Char3		N		Session		Edit	
5	A.	SESS_BEGIN_DT - Session Beginning Date	Date				Begin Date		Edit	
6	A.	HOLIDAY_SCHEDULE - Holiday Schedule	Char6				Hol Sched		Edit	
7	A.	SSR_VAL_APT_APPROV - Validation Appointments	Char1				Validation		Edit	

[Save](#) [Save As](#) [New Query](#) [Preferences](#) [Properties](#) [New Union](#) [Return to Search](#)

2. We will add the criteria.
3. Run the query.
4. Change the Boolean criteria order and operators.

As you become proficient in adding multiple rows of criteria, you may need to reorder the rows of criteria to achieve the wanted results.

The Reorder Criteria button on the Criteria page provides the ability to reorder rows of criteria without deleting and re-entering existing criteria.

Home | Worklist | Mu

Records Query Expressions Prompts Fields **Criteria** Having View SQL Run

Query Name: New Unsaved Query Description:

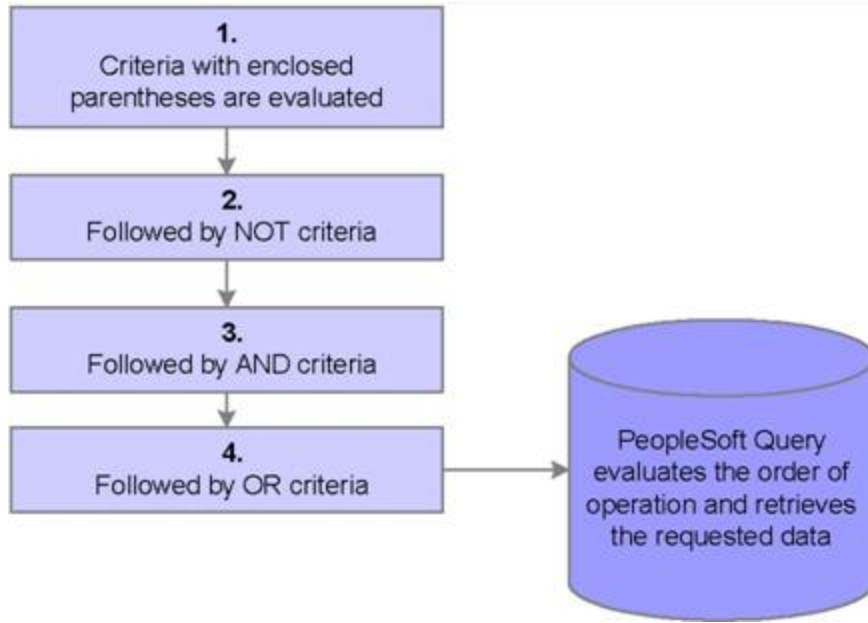
Add Criteria Group Criteria Reorder Criteria

Logical	Expression1	Condition Type	Expression 2	Edit	Delete
	AACAD_CAREER - Academic Career	equal to	NOND	Edit	-
AND NOT	A.STRM - Term	equal to	2088	Edit	-
OR	A.SESS_BEGIN_DT - Session Beginning Date	equal to	2008-08-25	Edit	-

Save Save As New Query Preferences Properties New Union Return to Search

Order of Processing Criteria

Query Manager uses the following rules when processing criteria:



Grouping Criteria

When you have more than one criteria row, you can use the group Criteria feature to control the order in which Query Manager applies the criteria row.

You enclose the criteria within parentheses to force the system to evaluate those criteria first.



Edit Criteria Grouping

Use the edit boxes to enter parenthesis for each criteria. Use only the '(' and ')' characters.

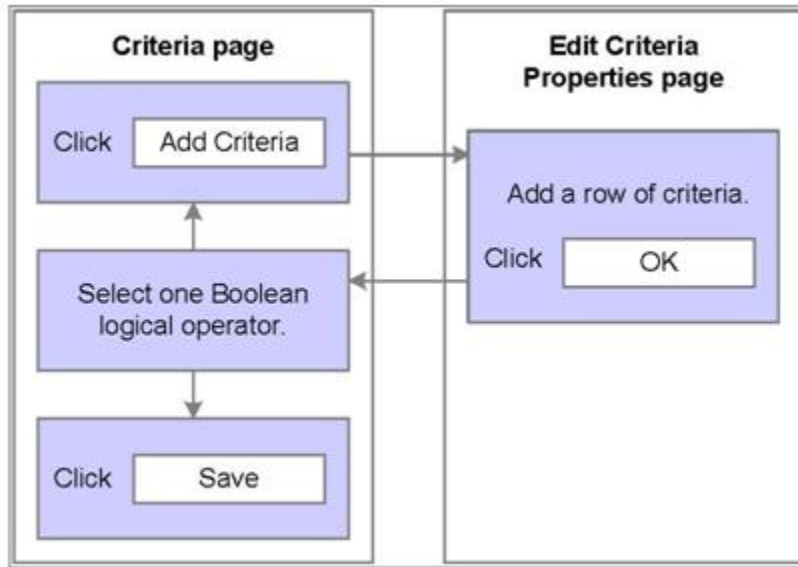
Logical	Expression1	Condition Type	Expression 2
	<input type="text"/> A.ACAD_CAREER - Academic Career	equal to	NOND <input type="text"/>
AND NOT	<input type="text"/> A.STRM - Term	equal to	2088 <input type="text"/>
OR	<input type="text"/> A.SESS_BEGIN_DT - Session Beginning Date	equal to	2008-08-25 <input type="text"/>

Steps Used to Group Criteria

1. Click the Group Criteria button on the Criteria page.
2. Use the text boxes to enter parentheses, which enclose expressions.
3. Click the OK button.

Process to Create Multiple Rows of Criteria

This diagram shows the process you use to create multiple rows of criteria:



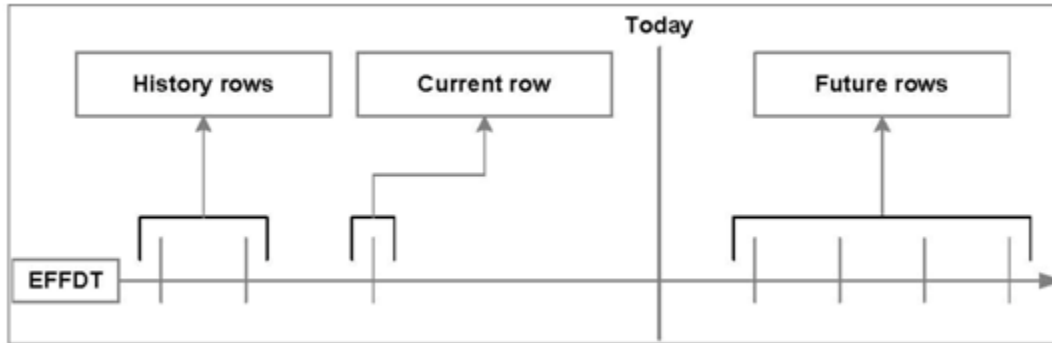
Creating Multiple Rows of Criteria

1. Click the Add Criteria button on the Criteria page.
2. Add the row of criteria by using the Edit Criteria Properties page, and then click the OK button.
3. Select a Boolean logical operator from the logical drop-down list box that is on the Criteria page.
4. Repeat steps 1 to 3 to add additional rows of criteria.
5. Reorder and group criteria as necessary.
6. Save the query.

Effective Date

PeopleSoft applications use the effective date field (EFFDT) to enable you to view data that changes over time.

This diagram shows how the system classifies data into categories based on the effective date:



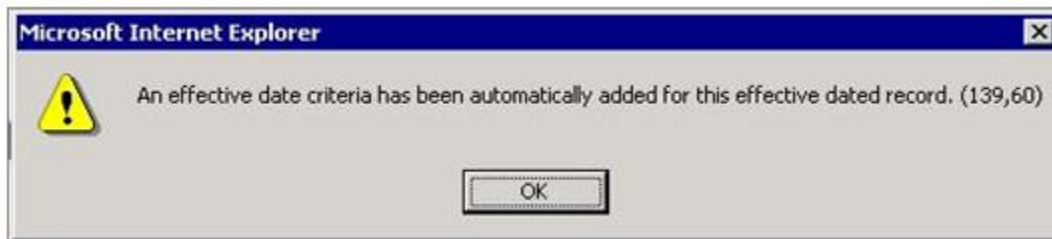
Effective Date Categories

With effective-dated queries, rows of data are classified in one of three categories.

Category	Description
Current	The Current row of data is defined by closest to without exceeding the current days date. There can only be one current row per high-level key to a table.
History	The effective date is less than the effective date of the current row.
Future	The effective date is greater than today's date (system date on the server).

Effective-Dated Record

When you start a new query and select an effective-dated record, a new effective-dated criteria row is created, and an informational message appears on the screen:



Condition Types of the Effective Date Fields

If you choose an effective-date condition (visible on the Criteria page in the Conditions Type column), you return one effective-dated row of information per item. You can vary what you want the effective date compared against.

This table describes the effective-date conditions on the Edit Criteria Properties page:

Effective-Date Condition	Description
Effective Date <= Effective Date <	Maximum Effdt {<=,<} {current date, constant, field}
Effective Date >= Effective Date >	Minimum Effdt {>=,>} {current date, constant, field}
First Effective Date	Return the row with the oldest effective date, the first row that is entered for an item.
Last Effective Date	Return the row with the latest effective date, even if that date is still in the future.

Often, effective-dated tables have an effective status field. The effective status (EFF_STATUS – has two field associated with it as translate values Active and Inactive). If you are working with effective-dated tables and looking for the current row of information, you may also want to add criteria in the EFF_STATUS field to specify only active rows. The table may also include the effective sequence field (EFF_SEQ) used when multiple transactions occur on the same effective date.

ACTIVITY 3 – Creating, Editing and Refining Queries with Effective-Dates and Complex Criteria

(Approximately 25 min)

Activity overview:

- Create a query using the ITEM_TYPE_TBL
 - Applying Effective Dates
 - Add criteria
 - Group criteria
 - Apply Boolean logic
-

Create a query:

1. If necessary, sign in to the database.
2. Access Query Manager, and create a new query using the **ITEM_TYPE_TBL**.
3. It will indicate to you the table is effective dated, you will accept the criteria and click OK.
4. Select the following fields:

<i>Page Element</i>	<i>Value or Status</i>
SETID	Selected
ITEM_TYPE	Selected
DESCR	Selected
ITEM_TYPE_CD	Selected
TAXABLE_Y_N	Selected

5. Save the query as your **XXX_ITEM_TYPES** (XXX is your initials).
 - a. Put a description of **XXX Training Item Types**
6. Run the query and answer the following question.
7. How many rows of data are returned? _____

Results

PeopleSoft

Home | Worklist | A

New Window | Help

Records | Query | Expressions | Prompts | Fields | Criteria | Having | View SQL | Run

View All | Rerun Query | Download to Excel



First 1-100 of 991 Last


	SetID	Item Type	Descr	Item Code	Taxable
1	DHCMP	400000000010	Cash Payment	P	N
2	DHCMP	950232022700	Natl Assoc of Realtors	F	N
3	DHCMP	950232073700	Natl Merit Scholarship	F	N
4	DHCMP	950232014800	Natl Strength & Conditioni	F	N
5	DHCMP	950232034200	Norred Family Foundation	F	N
6	DHCMP	950232052700	Northrop Grumman Schol	F	N
7	DHCMP	950232015300	Nursing Scholarship	F	N
8	DHCMP	950232076700	Nuziard Health Care Scholar	F	N
9	DHCMP	950292010900	Oneida Tribe of Wisconsin	F	N
10	DHCMP	950232079300	Orange County's United Way	F	N
11	DHCMP	950232044700	Orangewood Children's Foundat	F	N
12	DHCMP	950232076400	Orig Palm Spgs Writers Schl	F	N
13	DHCMP	950232061100	Orphan Found of America	F	N
14	DHCMP	950232032000	Overlake Hosp Med Center Sch	F	N
15	DHCMP	950232059100	PHEAA Penn H.E. Agency	F	N
16	DHCMP	910690000014	PLUS Program - AFSA	F	N
17	DHCMP	950232015800	Pacific Care Scholarship	F	N

Adding IN TREE Criteria

1. Select the Criteria page, and then click the Add Criteria button. (When you first click on the Criteria page you will see the first row is the EFFDT criteria).
2. Enter the following information:

Page Element	Value or Status
Expression 1 Type	Field
Expression 1	ITEM_TYPE
Condition Type	In Tree
Expression 2 Type	Tree Option
Expression 2	Follow directions below

3. Click the New Node List link.
4. Click the Search button.
5. Select the tree named **ITEM_TYPE_TREE**.
6. Select the FUTURE USE 3 - node from the tree.
7. Click the Add to Node Selection List button .
8. Select the CEE BAL PRIOR TERM node from the tree.
9. Click the Add to Node Selection List button .


10. Select the CEE LATE FEES node from the tree.
11. Click the Add to Node Selection List button  .
12. Click the OK button to return to the Edit Criteria Properties page.
13. Click the OK button again to return to the Criteria page.
 - a. Review the criteria in the Expression 2 group box.
 - b. Click the SQL tab and review what was written on the SQL page.
 - c. Click the Run page and view the query.
14. Click the Criteria page.
15. Add a second criteria row, and enter the following information: (this is actually the third row of criteria, but the second row you are adding).

<i>Page Element</i>	<i>Value or Status</i>
Expression 1 Type	Field
Expression 1	TAXABLE_Y_N
Condition Type	Equal to
Expression 2 Type	Constant
Expression 2	Y

16. Click the OK button.
17. TEST by clicking the **RUN tab**

18. Add a third criteria row, and enter the following information:

<i>Page Element</i>	<i>Value or Status</i>
Expression 1 Type	Field
Expression 1	ITEM_TYPE
Condition Type	In Tree
Expression 2 Type	Tree Option
Expression 2	Follow directions below

19. Click the New Node List link.
20. Click the Search button.
21. Select the tree named **ITEM_TYPE_TREE**.
22. Select the **CEE MISC FEES** node from the tree.
23. Click the Add to Node Selection List button  .
24. Click the OK button to return to the Edit Criteria Properties page.
25. Click the OK button again to return to the Criteria page.



[New Win](#)

Records | Query | Expressions | Prompts | Fields | **Criteria** | Having | View SQL | Run

Query Name: New Unsaved Query

Description:

Logical	Expression1	Condition Type	Expression 2	Edit	Delete
	A.EFFDT - Effective Date	Eff Date <=	Current Date	<input type="button" value="Edit"/>	<input type="button" value="[-"/>
AND	A.ITEM_TYPE - Item Type	in tree	DHCMP,,ITEM_TYPE_TREE,1901-01-01,FUTURE USE 3,CEE BAL PRIOR TERM,CEE LATE FEES	<input type="button" value="Edit"/>	<input type="button" value="[-"/>
AND	A.TAXABLE_Y_N - Taxable	equal to	Y	<input type="button" value="Edit"/>	<input type="button" value="[-"/>
AND	A.ITEM_TYPE - Item Type	in tree	DHCMP,,ITEM_TYPE_TREE,1901-01-01,CEE MISC FEES	<input type="button" value="Edit"/>	<input type="button" value="[-"/>

[Save As](#)
[New Query](#)
[Preferences](#)
[Properties](#)
[New Union](#)

Applying Boolean Logic

1. Select the **OR** option in the Logical dropdown list box for the field of TAXABLE_Y_N
2. Save the query, and view the query results.

View All | [Rerun Query](#) | [Download to Excel](#)

First 1-66 of 66 Last

	SetID	Item Type	Descr	Item Code	Taxable
1	DHCMP	050000000100	Extension Late Fee	C	Y
2	DHCMP	050000000101	Special Sessions late Fee	C	Y
3	DHCMP	050000000200	Extension Late Fee Adv.	C	Y
4	DHCMP	050000000201	Special Session Late Fee Adv.	C	Y
5	DHCMP	060000000100	Extension Miscellaneous Fees	C	Y
6	DHCMP	060000000101	Special Session Miscellaneous	C	Y
7	DHCMP	060000000105	Credit Extension ITFS Fees	C	Y
8	DHCMP	060000000102	Art Lab Fee for CEE students	C	Y
9	DHCMP	060000000103	Biology Lab fee for CEE studen	C	Y
10	DHCMP	060000000104	Chemistry Lab Fee for CEE stud	C	Y
11	DHCMP	060000000106	Special Session ITFS Fees	C	Y
12	DHCMP	060000000107	O & P fee for CEE students	C	Y
13	DHCMP	060000000108	P.E. Crse Fee for CEE students	C	Y
14	DHCMP	060000000109	ALCP Reimbursement Activity	C	Y
15	DHCMP	060000000110	Cr. Ext. CEE Book Receipts	C	Y
16	DHCMP	060000000111	Special Sessions Book Receipts	C	Y
17	DHCMP	060000000112	CEE Book refd to students	R	Y
18	DHCMP	060000000113	CEE Book Transfer to under	C	Y

3. Move your newly created query to the folder you created in the previous exercise.
4. Add the query to your favorites list in Query Manager.

Reorder Criteria

1. Click the Reorder button and reorder your criteria as indicated in the following screen shot.



Records Query Expressions Prompts Fields **Criteria** Having View SQL Run

Query Name: New Unsaved Query Description:

Add Criteria Group Criteria Reorder Criteria

Logical	Expression1	Condition Type	Expression 2	Edit	Delete
	(A.EFFDT - Effective Date	Eff Date <=	Current Date	Edit	-
AND	A.ITEM_TYPE - Item Type	in tree	DHCMP,,ITEM_TYPE_TREE,1901-01-01,FUTURE USE 3,CEE BAL PRIOR TERM,CEE LATE FEES	Edit	-
OR	A.ITEM_TYPE - Item Type	in tree	DHCMP,,ITEM_TYPE_TREE,1901-01-01,CEE MISC FEES)	Edit	-
AND	A.TAXABLE_Y_N - Taxable	equal to	Y	Edit	-

Save Save As New Query Preferences Properties New Union Return to Search

Grouping Criteria

1. You will be utilizing the same query you just created.
2. On the Criteria page click the Group Criteria button.
3. Enter open parentheses in the left text box of row 1 (EFFDT field).
4. Enter close parenthesis in the right text box of row 3 (ITEM_TYPE,).



Edit Criteria Grouping

Use the edit boxes to enter parenthesis for each criteria. Use only the '(' and ')' characters.

Logical	Expression1	Condition Type	Expression 2	
	(A.EFFDT - Effective Date	Eff Date <=	Current Date	
AND	A.ITEM_TYPE - Item Type	in tree	DHCMP,,ITEM_TYPE_TREE,1901-01-01,FUTURE USE 3,CEE BAL PRIOR TERM,CEE LATE FEES	
AND	A.ITEM_TYPE - Item Type	in tree	DHCMP,,ITEM_TYPE_TREE,1901-01-01,CEE MISC FEES)
OR	A.TAXABLE_Y_N - Taxable	equal to	Y	

OK Cancel

5. Click the OK button.
6. Save the query.
7. Run and view the query.

Results

PeopleSoft. Home Worklist A

New Window | Help

Records Query Expressions Prompts Fields Criteria Having View SQL Run

[View All](#) | [Rerun Query](#) | [Download to Excel](#) First 1-100 of 454 Last

	SetID	Item Type	Descr	Item Code	Taxable
1	DHCMP	600000000010	Application Fee	C	Y
2	DHCMP	910000000200	Resident Advisor Housing	F	Y
3	DHCMP	030000000105	Non Cr. Ext.Contract	C	Y
4	DHCMP	030000000106	Non Cr. Ext.Vendor	C	Y
5	DHCMP	030000000107	Non Cr. Ext. Olli	C	Y
6	DHCMP	030000000110	Non Cr. Ext. Training Prog.	C	Y
7	DHCMP	030000000111	Non Cr. Ext. Activity	C	Y
8	DHCMP	030000000112	Non Cr. Ext. Intl Training Pro	C	Y
9	DHCMP	030000000200	Non Cr. Ext. CEU Adv.	C	Y
10	DHCMP	030000000201	Non Cr. Ext. Contract CEU Adv.	C	Y
11	DHCMP	030000000202	Non Cr. Ext. Vendor CEU Adv.	C	Y
12	DHCMP	030000000203	Non Cr. Ext. ALCP Adv.	C	Y
13	DHCMP	030000000204	Non Cr. Ext. Regular Adv.	C	Y
14	DHCMP	030000000205	Non Cr. Ext.Contract Adv.	C	Y
15	DHCMP	030000000206	Non Cr. Ext. Vendor Adv.	C	Y
16	DHCMP	030000000207	Non Cr. Ext. Olli Adv.	C	Y
17	DHCMP	030000000208	Non Cr. Ext. Olliers Adv.	C	Y

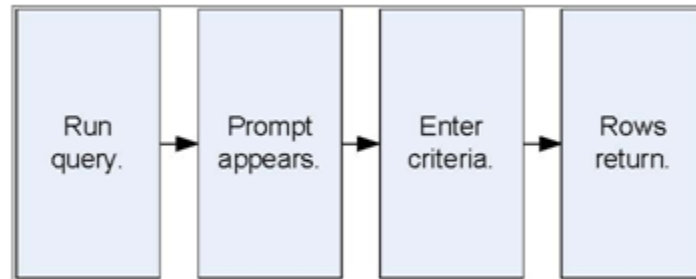
Chapter 5

Filtering Output with Runtime Prompts

Describing Runtime Prompts

Prompts extend the life of a query and make the query more flexible for future requests.

This diagram shows the process flow for using runtime prompts:



The query becomes more flexible because you do not have to create multiple queries with hard-coded values for each specific parameter in which to search on.


Runtime Prompt Types

Prompt Type	Source of Value
Prompt Table	User selects from a list of values defined in another application data table.
Translate Table	User selects from a list of values defined in the translate table.
Yes/No Table	User selects either yes or no.

Prompt Table Edit

This type of edit restricts selection to only data that is in the prompt table.

A lookup button (magnifying glass)  indicates a prompt table runtime prompt.

*Academic Group: 

Look Up Academic Group

Academic Institution:

Academic Group:

Description:

[Basic Lookup](#)

Search Results

View All 1-14 of 14

Academic Group	Description
CAS	College of Arts & Sciences
CCM	Cleve Clinic Lerner Coll Med
CIM	Cleveland Institute of Music
DEN	School of Dental Medicine
EMG	Schls of Engineering & Mgmt
ENG	Case School of Engineering
GRS	School of Graduate Studies
LAW	School of Law
MED	School of Medicine
MGT	Weatherhead Schl of Management
NUR	School of Nursing
SAS	Mandel Schl of Applied Soc Sci
SMG	Schls of Appl Soc Sci & Mgmt
UGR	Undergraduate Programs

Translate Table Edit

This type of edit restricts selection to only data that is in the Translate Table (PSXLATITEM). THE Translate table is a PeopleTools table predefined values that are associated with a particular field.

A drop-down list box typically indicates a Translate Table runtime prompt.

*Grade Roster Print: Componen ▾

*Grade Roster Print: Componen ▾
By Student
Component
Instructor
None

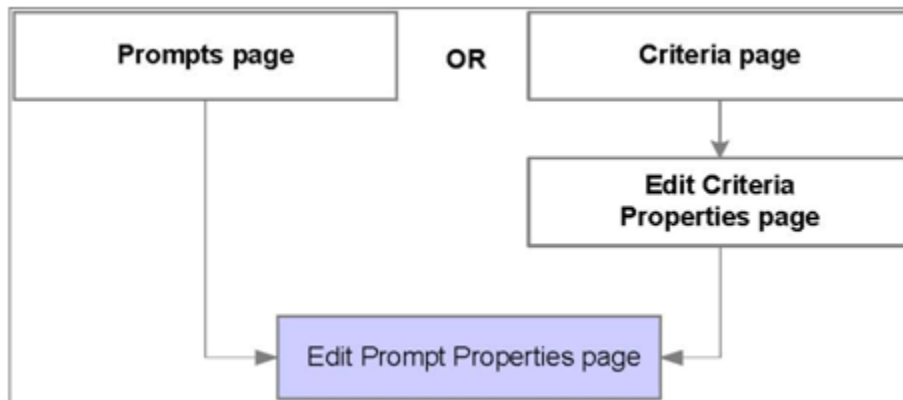
The Yes/No Table Edit

This type of edit restricts you to selecting yes (Y) or no (N) values.

Repeat for Credit

Runtime Prompt

This diagram shows the pages that you can use to access the Edit Prompt Properties page and to add runtime prompts:



There are two locations in which you can access to create runtime prompts:

- Prompts page
- Criteria page

Creating Prompts from the Prompts page

Use the following page to create and save multiple prompts that you can use later as selection criteria:

The screenshot shows a software interface with a tabbed menu at the top containing: Records, Query, Expressions, Prompts (selected), Fields, Criteria, Having, View SQL, and Run. Below the tabs, the 'Query Name' is 'New Unsaved Query' and the 'Description' is empty. A yellow 'Add Prompt' button is visible, followed by the text 'No prompts have been defined yet.' Below this, there are several buttons: 'Save' (with a floppy disk icon), 'Save As', 'New Query', 'Preferences', 'Properties', 'New Union', and 'Return to Search' (with a magnifying glass icon).

Creating a Runtime Prompt from the Criteria Page

1. Create a row of criteria.
2. Create a prompt that you use in the row of criteria.

Use this page to create prompts:

Edit Criteria Properties

The 'Edit Criteria Properties' dialog box is shown. It has two main sections for defining expressions. The first section, 'Expression 1', has a 'Choose Expression 1 Type' panel with radio buttons for 'Field' (selected) and 'Expression'. Below this is a '*Condition Type:' dropdown menu set to 'equal to'. The 'Expression 1' panel itself has a 'Choose Record and Field' section with a search box containing 'A.INSTITUTION - Academic Insti'. The second section, 'Expression 2', has a 'Choose Expression 2 Type' panel with radio buttons for 'Field', 'Expression', 'Constant', 'Prompt' (selected), and 'Subquery'. The 'Expression 2' panel has a 'Define Prompt' section with a search box containing 'New Prompt' and 'Edit Prompt'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Expression 2 – Define prompt Group Box

Page Element	Usage
Prompt	View the bind variable or prompt name used for this row of criteria. It is read-only.
Search icon	Click to display all prompts that you create for this query.
New Prompt	Click to create a new prompt for this row of criteria.
Edit Prompt	Click to edit the existing prompt for this row of criteria.

Steps Used to Create a Runtime Prompt

1. Click the Add Criteria button on the Criteria page.
2. The Edit Criteria Properties page appears.
3. Select the record.field in Expression 1 you wish to use.

Edit Criteria Properties

Choose Expression 1 Type

Field
 Expression

Expression 1

Choose Record and Field

Record Alias.Fieldname:

*Condition Type: equal to

Choose Expression 2 Type

Field
 Expression
 Constant
 Prompt
 Subquery

Expression 2

Define Prompt

Prompt:

OK Cancel

4. In the Choose Expression 2 Type select the radio button for Prompt.
5. In the Expression 2 group box select the New Prompt link.

Edit Prompt Properties

Field Name: 🔍 INSTITUTION	*Heading Type: RFT Short ▼
*Type: Character ▼	Heading Text: Institution
*Format: Upper ▼	*Unique Prompt Name: BIND1
Length: <input type="text" value="5"/>	
Decimals: <input type="text"/>	
*Edit Type: Prompt Table ▼	Prompt Table: 🔍 INSTITUTION_TBL
<input type="button" value="OK"/>	<input type="button" value="Cancel"/>

6. The Edit Prompt Properties for the record.field you selected appears and all properties are filled in for you.
7. Click the OK button.
8. Click the OK button again to bring you back to the Criteria tab.
9. Click the Run tab to see the prompt and test.
10. Save if you like the results if not you may go back and adjust your prompt or criteria.

Multiple Runtime Prompts

The steps to add multiple prompts are the same steps that you use to add a single prompt; you need only to add additional rows of criteria, and then select an Expression 2 type of prompt each time.

ACTIVITY 4 – Creating Runtime Prompts and Date Range Prompts

(Approximately 15 min)

Activity overview:

- Create a query
 - Add criteria
 - Add a runtime prompt
 - Create a prompt for a date range
-
-

Creating a query

1. If necessary sign in to the database.
2. Access the Query Manager, and create a new query using the ADJ_TERM_TBL record.
3. Enter the following information:

Field	Heading
ADJUST_REASON	Selected Choose text and type in – Adjustment Reason
SESSION_CODE	Selected
FROM_DAY	Selected
TO_DAY	Selected
REFUND_PCT	Selected Choose Long name

4. Save the query as your **XXX_ENROLL_RANGE** (XXX is your initials).
5. Type in a Description.
6. Click the dropdown list and select Public query as the type.
7. Run the query.
8. Examine the results.
9. Change **REFUND_PCT** to be **Sort Order by 1** and change the **Column/position** of **REFUND_PCT** to **1** and select the checkbox for **descending** order.
10. Save the query and examine the results.

Results

PeopleSoft.

[Home](#) | [Worklist](#) | [...](#)

[New Window](#) | [Help](#)

[Records](#) | [Query](#) | [Expressions](#) | [Prompts](#) | [Fields](#) | [Criteria](#) | [Having](#) | [View SQL](#) | [Run](#)

I

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First Last

	Refund %	Session	From Day	To Day	Adjust Reason
1	100.00	SNS	0	0	CEED
2	100.00	SSD	0	0	CEED
3	100.00	SSD	0	0	SDRP
4	100.00		-999	999	ADMI
5	100.00	SNS	0	0	SDRP
6	100.00		-999	999	CEED
7	100.00		-999	-1	SDRP
8	100.00		-999	9999	ADMI
9	100.00		-999	19	SDRP
10	100.00	SNS	0	0	CEED
11	100.00	SNS	0	0	SDRP
12	100.00	SSD	0	0	SDRP
13	100.00	SNS	0	0	CEED
14	100.00	SSD	0	0	CEED
15	100.00	SNS	0	0	ADMI
16	100.00	SSD	0	0	ADMI
17	100.00	SNS	0	0	SDRP

Adding Runtime Prompts

1. Using the same query you just created, select the criteria page, and then click the Add Criteria button
2. Enter the following information:

Page Element	Value or Status
Expression 1 Type	Field
Expression 1	SESSION_CODE
Condition Type	equal to
Expression 2 Type	Prompt

3. Click the New Prompt link, and enter the following information:

Page Element	Value or Status
Heading Type	RFT Long
Edit Type	No Table Edit
Prompt Table	Leave blank

4. Return to the Criteria page and then save the query.

Testing:

Test 1 – Click the Run tab and type in **SNS** in the new prompt that appears in the upper left corner.

How many rows were returned? _____

Test 2 – Click the Rerun query link and leave the field **blank** this time.

How many rows were returned? _____

Creating a Prompt for a Range

1. Click the Add Criteria button, and enter the following information:

Page Element	Value or Status
Expression 1 Type	Field
Expression 1	FROM_DAY
Condition Type	Between
Expression 2 Type	Const - Const
Expression 2	1 8

2. Save and view the query.
3. Click the Add Criteria button, and enter the following information:

Page Element	Value or Status
---------------------	------------------------

Expression 1 Type	Field
Expression 1	CURRENCY_CD
Condition Type	Equal to
Expression 2 Type	Prompt
Expression 2	Click the New Prompt link Examine the properties and click ok to return

- Click OK again to return to the Criteria page, and save the query.
- Run the query and examine the results.

PeopleSoft® [Home](#) | [Worklist](#) | [A](#)

[New Window](#) | [Help](#)

Records | Query | Expressions | Prompts | Fields | Criteria | Having | View SQL | **Run**

Session1 = ,Currency=USD

View All | [Rerun Query](#) | [Download to Excel](#) First ◀ 1-32 of 32 ▶ Last

	Refund %	Session	From Day	To Day	Adjust Reason
1	98.00		1	1	SINW
2	98.00		1	1	SINW
3	98.00		1	1	STDI
4	98.00		1	1	STDI
5	97.00		2	2	SINW
6	97.00		2	2	SINW
7	97.00		2	2	STDI
8	97.00		2	2	STDI
9	96.00		3	3	SINW
10	96.00		3	3	SINW
11	96.00		3	3	STDI
12	96.00		4	4	SINW
13	96.00		3	3	STDI
14	96.00		4	4	STDI
15	95.00		5	5	SINW
16	95.00		4	4	SINW
17	95.00		4	4	STDI

Chapter 6

Working with Multiple Tables

Describing the Purpose of Joins

Joining multiple Records

When you join two records (tables), you relate them to each other.

<i>Purpose</i>	<i>Example</i>
Retrieve additional fields	You join tables to retrieve a description (DESCR: Community Dentistry) that explains a code (ACAD_ORG: CMDN)
Limit the rows that are returned	You join tables to retrieve only the student information about students whose student IDs appear in the Enrollments table.

It is very important to remember that you want to perform joins on a common key value present in the tables you are joining together. **Should you decide to join on other random fields you will create a Cartesian join with unpredictable results.**

Differences Between Tables and Views

<i>Table</i>	<i>View</i>
<ul style="list-style-type: none">• Stores physical data• Designed for data storage• Organized for minimum redundancy• Contains a specific type of related data• Typically with a naming convention of <code>_TBL</code>	<ul style="list-style-type: none">• Displays logical representation of data• Designed for data retrieval• Organized as necessary to meet business needs• Displays related data, but you define the relationship• Typically with a naming convention of <code>_VW</code>

How do I find the tables I need for my Query?

Locating appropriate data sources is difficult if you are unfamiliar with the application. Use Query Manger to access the PeopleTools tables PSPNLDEFN and PSPNLFIELD, and query these tables for the records and fields associated with any PeopleSoft PIA page.

PeopleTools tables are in access groups in the QUERY_TREE_PT tree.

In the application from the page you are on you can press CTRL + J on a data entry page to view the page name. Then use that name to complete the prompt that is in the query. Almost all definition names consist only of uppercase letters.

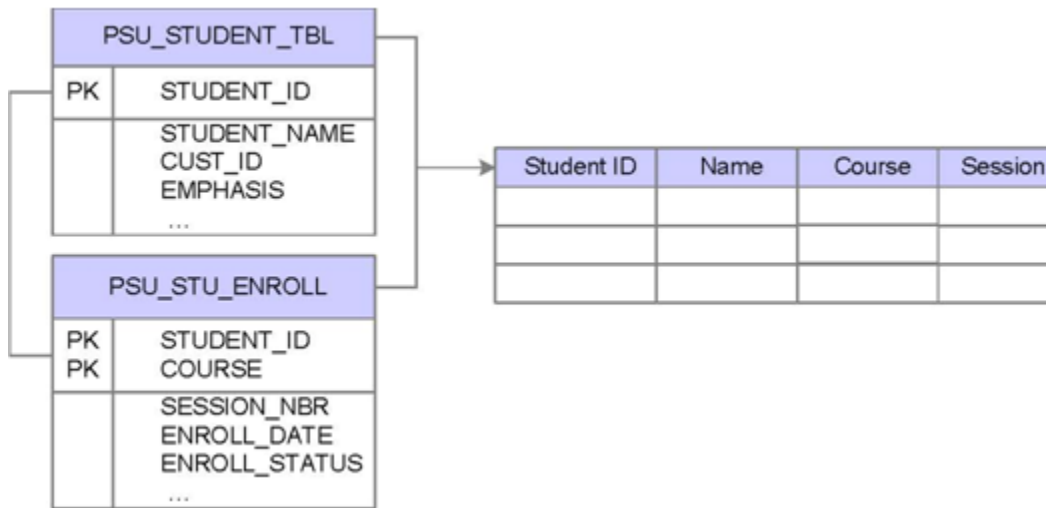
Query Elements	Explanation
A = PSPNLDEFN, B = PSPNLFIELD	The PSPNLDEFN table stores basic page data such as name and description. The PSPNLFIELD table stores the page name and its associated fields.
B.FIELDNUM	This field stores the tab order on the page. Order by this field
A.PNLNAME	This field stores the page name that you viewed when you pressed CTRL + J. Create a runtime prompt on this field to limit inordinate output.
A.DESCR	This field stores a useful description of the technical page name (if documented by the developer)
B.LBLTEXT	This field stores the label that you see on the page
B.RECNAME	This field stores the technical name of the record associated with the data.
B.FIELDNAME	This field stores the technical name of the field

Example of CTRL + J

Browser	IE/7.0
Operating System	WINXP
Browser Compression	ON (gzip)
Tools Release	8.48.06
Application Release	HRMS and Campus Solutions 9.00.00.000
Service Pack	0
Page	CRSE_CATALOG
Component	CRSE_CATALOG
Menu	ESTABLISH_COURSES
Component Buffer Size (KB)	365

[continue](#)

Record-Hierarchy Joins



In PeopleSoft Query, a predefined join is one of the following:

- Record-hierarchy join
- Related-record join

Record-Hierarchy Joins

Record-hierarchy joins use records that are related through a parent-child relationship.

Use the following page to create record-hierarchy join:

Records Query Expressions Prompts Fields Criteria Having View SQL Run

Query Name: New Unsaved Query Description:

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

Alias Record

ACAD_ORG_TBL - Academic Organization Table Hierarchy Join

Check All Fields Uncheck All Fields

Fields Find | View All First 1-13 of 13 Last

- ACAD_ORG - Academic Organization
- EFFDT - Effective Date
- EFF_STATUS - Status as of Effective Date

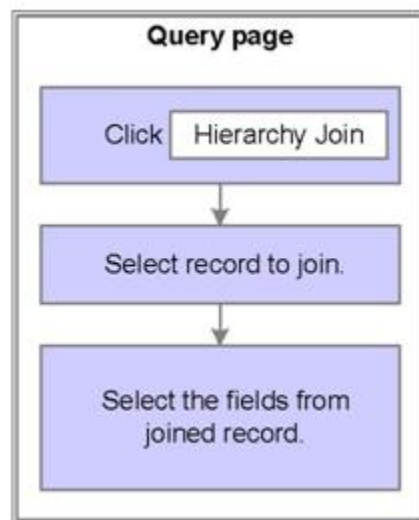
Click the Hierarchy Join link to see the page of applicable child table to create a join.

Select record for hierarchy join

Left | Right

- 📁 [ACAD_ORG_TBL - Academic Organization Table](#)
- 📁 [ACAD_ORG_FS_OWN - Acad Organization Owner Table](#)
- 📁 [ACAD_ORG_HR_OWN - Acad Org HR Owner Tbl](#)

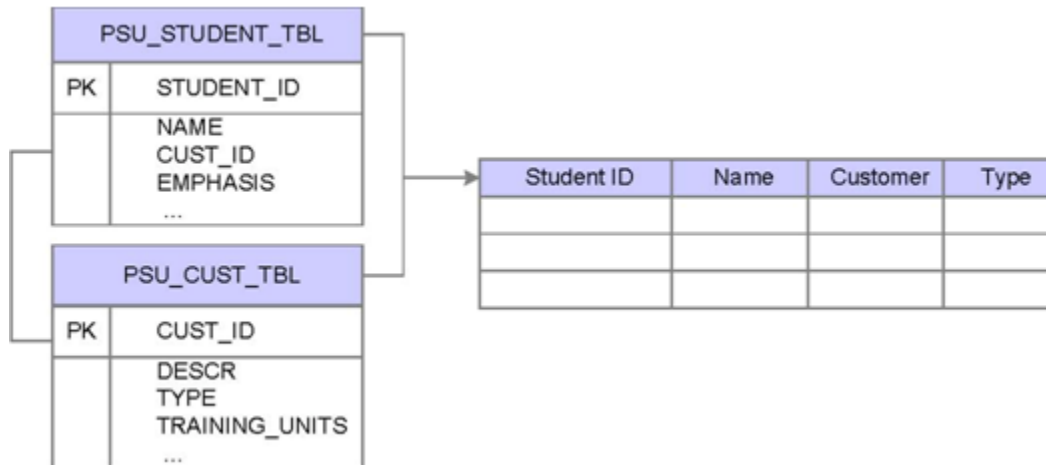
Creating a Record-Hierarchy Join



To Create a Record –Hierarchy Join:

1. Select the Query page, and then click the Hierarchy join link.
2. Select the record to join from the list of parent-child records.
 - a. This record appears on the Query page and is assigned an alias letter in the order that you added the records.
3. Select the necessary fields from the joined record.

Related-Record Join (smart join)



Related-record joins combine nonhierarchical records that share common fields. You determine this relationship when you define a field's prompt table relationships in the Application Designer.

Related records are specified to a field in the current record. If you use Application Designer to set field edit properties so that the field validates against a prompt table, the related record link appears to the right of the field.

Example:

Records | **Query** | Expressions | Prompts | Fields | Criteria | Having | View SQL

Query Name: New Unsaved Query Description:

Click folder next to record to show fields. Check fields to add to query. Uncheck fields to remove from query. Add additional records by clicking the records tab. When finished click the fields tab.

Chosen Records

Alias Record

ACAD_ORG_TBL - Academic Organization Table [Hierarchy Join](#)

Check All Fields Uncheck All Fields

Fields Find | View All First 1-13 of 13 Last

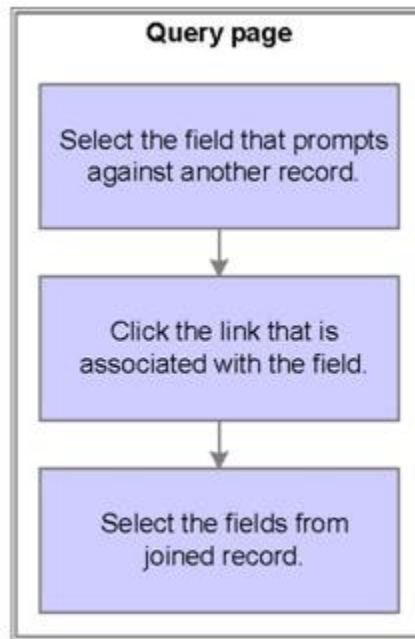
- ACAD_ORG - Academic Organization
- EFFDT - Effective Date
- EFF_STATUS - Status as of Effective Date
- DESCR - Description
- DESCRSHORT - Short Description
- DESCRFORMAL - Formal Description
- INSTITUTION - Academic Institution
- CAMPUS - Campus
- MANAGER_ID - Manager ID
- INSTR_EDIT - Instructor Edit

[Join INSTITUTION_TBL - Institution Table](#)

[Join CAMPUS_TBL - Campus Table](#)

[Join PEOPLE_SRCH - People Search View](#)

Creating a Related-Record Join



To Create a Related-Record Join

1. Access the Query page, and then select the field that prompts against another table for its values.
 - a. The related record appears as a link to the right of the field.
2. Click the related record link that is associated with the field.
 - a. The new record appears on the Query page and displays an alias letter that shows the order of joins.
3. Select the fields that you require from the joined record.

ACTIVITY 5 – Accessing Data in Multiple Tables Using Record-Hierarchy and Related-Record Joins

(Approximately 15 min)

Activity overview:

- Create a query
 - Add a record-hierarchy join
 - Add a related-record join
-

Create a query

1. If necessary sign in to the database.
2. Access Query Manager, and create a new query using the **ACAD_DEGR** record.
3. Select the following fields:

<i>Page Element</i>	<i>Value or Status</i>
EMPLID	Selected
STDNT_DEGR	Selected
DEGREE	Selected
ACAD_CAREER	Selected

4. Save the query as your **XXX_STUDENT_JOIN**.
5. View the query results, and answer this question:

How many rows of data were returned? _____

Adding a Record-Hierarchy Join

1. Access the Query page, and then click the Hierarchy Join link.
2. Select the **ACAD_DEGR_HONS** child record.
3. Select the **HONORS_CODE** field in the **B.ACAD_DEGR_HONS** record.
4. Save the query.
5. View the query results, and answer this question:

How many rows of data were returned? _____

Adding a Related-Record Join

1. Access the Query page and locate the **B.ACAD_DEGR_HONS** record click the plus sign on the yellow file folder to expand the **B** record.
[Join DEGR_HONORS_WW1 - Degree Honors Table View 1](#)
2. Click the Join hyperlink that is next to the **HONORS_CODE** field [Degree Honors Table View 1](#).
3. Click the OK button to accept the default standard join, and select the **DESCR_FORMAL** field.
4. Save the query, and view the query results.

Results

PeopleSoft®

[Home](#) | [Worklist](#) | [Help](#)

[New Window](#) | [Help](#)

[Records](#) | [Query](#) | [Expressions](#) | [Prompts](#) | [Fields](#) | [Criteria](#) | [Having](#) | [View SQL](#) | [Run](#)

[View All](#) | [Rerun Query](#) | [Download to Excel](#)

First 1-100 of 5568 Last

	ID	Degree Nbr	Degree	Career	Hon Code	FormalDesc
1	000023764	01	BA	UGRD	CL	Cum Laude
2	000023790	01	BA	UGRD	CL	Cum Laude
3	000025207	01	BA	UGRD	MCL	Magna Cum Laude
4	000025415	02	BS	UGRD	SCL	Summa Cum Laude
5	000025519	01	BS	UGRD	MCL	Magna Cum Laude
6	000026234	01	BS	UGRD	MCL	Magna Cum Laude
7	000026455	01	BA	UGRD	SCL	Summa Cum Laude
8	000027755	01	BA	UGRD	MCL	Magna Cum Laude
9	000027872	01	BS	UGRD	SCL	Summa Cum Laude
10	000027963	01	BA	UGRD	SCL	Summa Cum Laude
11	000028288	01	BS	UGRD	CL	Cum Laude
12	000028574	01	BS	UGRD	SCL	Summa Cum Laude
13	000028626	03	BA	UGRD	SCL	Summa Cum Laude
14	000030485	01	BA	UGRD	MCL	Magna Cum Laude
15	000030693	02	BA	UGRD	MCL	Magna Cum Laude
16	000031213	01	BS	UGRD	SCL	Summa Cum Laude
17	000031538	01	BA	UGRD	MCL	Magna Cum Laude

Chapter 7

Using Summary Calculations

Describing Aggregate Functions and Having Criteria

Aggregate Functionality and Having Criteria

In Query Manager, you use:

- Aggregate functions to associate query fields with predefined calculation.
- Aggregate functions to return a single value for multiple rows of output.
- The Having page to access fields that use aggregate functions in selection criteria.

Using Aggregate Functions

You can use the aggregate function to group data and perform calculations on a field that is within the group.

For instance, instead of viewing all rows of data, you want to view only a count of rows; instead of viewing the price of each item, you might want to see the average price of all items.

Having Criteria

When you associate a field with an aggregate, you cannot use that field in selection criteria. Structured Query Language (SQL) supports the use of aggregate functions in the WHERE clauses, but PeopleSoft applications don't.

Because the Criteria page corresponds to a SQL statement's WHERE clause, PeopleSoft Query provides the Having page. This page enables you to add criteria on the aggregate instead of on the field generating the aggregate. The Having page criteria appear in a SQL statement's HAVING clause.

Using predefined Aggregate Functions

Uses of Aggregate Functions

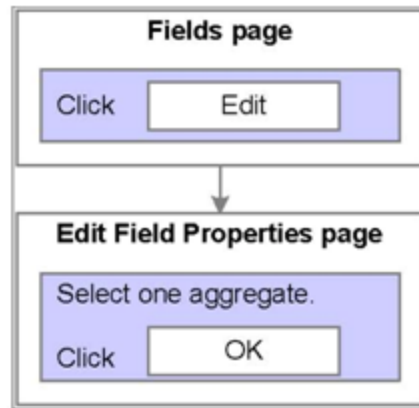
When you apply an aggregate function to a field, PeopleSoft Query replaces the field, wherever it occurs, with the results of the function.

This table lists the aggregate functions in Query Manager and their uses:

<i>Aggregate Function</i>	<i>Use</i>
Avg	Adds the field values in all rows, divides the sum by the number of rows, and returns the quotient.
Count	Counts the number of rows and returns the total.
Max	Checks the field value in each row and returns the highest value.
Min	Checks the field value in each row and returns the lowest value.
Sum	Add the field values in all rows and returns the total.

Adding Aggregates

This flowchart shows the steps to add aggregates to query fields:



Steps to Add Aggregates

To add aggregates to query fields:

1. Select the Fields page, and then click the Edit button for the field to edit.
2. Select an aggregate function, and then click the OK button.

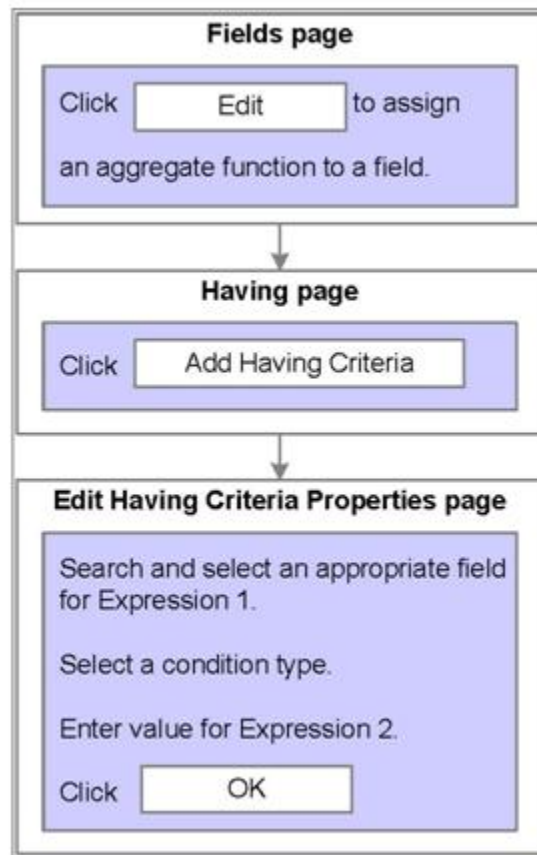
The screenshot shows a dialog box titled "Edit Field Properties". At the top, it says "Field Name: A.EMPLID - EmplID". Below this are two columns of options. The left column is titled "Heading" and has four radio button options: "No Heading", "Text" (which is selected), "RFT Short", and "RFT Long". Below these are two text input fields: "Heading Text:" with the value "Count ID" and "*Unique Field Name:" with the value "A.EMPLID". The right column is titled "Aggregate" and has five radio button options: "None", "Sum", "Count" (which is selected), "Min", "Max", and "Average". At the bottom of the dialog are two buttons: "OK" and "Cancel".

Note: You cannot use the Sum or the Average aggregate function with character fields.

Using the Having Criteria

Having Criteria

This flowchart shows the steps to create a row of Having criteria:



Creating a Row of Having Criteria

Note: You can add the criteria from the Fields page, and then the system populates Expression 1 of the Having criteria. You do not have to access the Having page or the Edit Having Criteria Properties page. Those steps are optional.

If you create a row of Having criteria using the Edit Having Criteria Properties page, then:

1. Click the prompt button for Expression 1, select the appropriate field from the list, and click the OK button.
2. Select the condition type.
3. Enter the value for Expression 2, and then click the OK button.

ACTIVITY 6 – Using Having Criteria and Applying Criteria to Aggregated Fields

(Approximately 15 min)

Activity overview:

- Create a query
 - Apply the Count aggregate function
 - Apply the Average aggregate function
 - Create a second query
 - Apply the Count aggregate function
 - Insert Having criteria
-
-

Creating a query

1. If necessary, sign in to the database.
2. Access Query Manager, and create a new query using the **TUIT_CALC_TBL** record.
3. Select the **EMPLID**, **STRM** and **PRE_POST_AMT** fields.
4. Save the query as **XXX_COUNT** (XXX is your INITIALS).
5. View the output, and answer this question.
 - a. How many rows of data are returned? _____

Results

[View All](#) | [Rerun Query](#) | [Download to Excel](#)

First ◀ 1-100 of 71112 ▶ Last

	ID	Term	Pr Pst Amt
1	104775944	2088	0.00
2	201226727	2094	3.00
3	104776048	2088	0.00
4	104776048	2088	3.00
5	104776048	2088	75.00
6	104776048	2088	0.00
7	201226727	2094	0.00
8	201226727	2094	0.00
9	104776048	2088	0.00
10	104776048	2088	0.00
11	104776048	2088	5.00
12	201305416	2088	36.15
13	201226727	2094	0.00
14	201305416	2088	0.00
15	104589615	2088	0.00
16	104589615	2088	0.51
17	104589615	2088	12.75

Applying the Count Function

1. Using the same query as you just created, select the Fields page and then click the Edit button for the **STRM** field.
2. Select the **Count** option in the Aggregate group box, and then click the OK button.
3. Save the query.
4. View the output, and answer this question:

How many rows of data are returned? _____



[View All](#) | [Rerun Query](#) | [Download to Excel](#)

First Last

	ID	Count Term	Pr Pst Amt
1	000000078	1	30.00
2	000000429	8	0.00
3	000000429	1	10.00
4	000000429	1	180.00
5	000000468	27	0.00
6	000000468	2	2.00
7	000000468	2	3.00
8	000000468	4	5.00
9	000000468	1	64.00
10	000000468	1	65.00
11	000000468	1	69.00
12	000000468	1	70.00
13	000000468	4	75.00
14	000000468	2	156.00
--	-----	-	-----

Applying the Max Aggregate Function

- Using the same query, select the Fields page, and then click the Edit button for the **PRE_POST_AMT** field.
- Select the radio button for the **Max** aggregate function from the Aggregate group box, and then click the OK button.
- Save the query.
- View the output, and answer this question:

How many rows of data are returned? _____

Results



[View All](#) | [Rerun Query](#) | [Download to Excel](#)

First 1-100 of 18313 Last

	ID	Count Term	Max Pr Pst Amt
1	000000078	1	30.00
2	000000429	10	180.00
3	000000468	51	1878.00
4	000000884	1	1125.00
5	000000949	2	75.00
6	000001755	21	1089.00
7	000001768	1	10.00
8	000002041	1	30.00
9	000002223	20	1089.00
10	000002301	11	10.00
11	000002314	1	30.00
12	000002496	2	90.00
13	000002548	20	1770.00
14	000002600	20	1089.00
15	000002847	3	75.00
16	000002899	48	1524.00
17	000003367	49	885.00

Adding a Row of Having Criteria

1. Select the Having page, and then click the Add Having Criteria button.
2. Enter the following information:

<i>Page Element</i>	<i>Value or Status</i>
Expression 1	STRM
Condition Type	greater than
Expression 2 Constant	10

3. Click the OK button.
4. Save the query, and view the output.
5. Compare the output with the following results.

Results

[Records](#) | [Query](#) | [Expressions](#) | [Prompts](#) | [Fields](#) | [Criteria](#) | [Having](#) | [View SQL](#) | [Run](#)

[View All](#) | [Rerun Query](#) | [Download to Excel](#)

First 1-100 of 12548 Last

	ID	Count Term	Max Pr Pst Amt
1	000000468	51	1878.00
2	000001755	21	1089.00
3	000002223	20	1089.00
4	000002301	11	10.00
5	000002548	20	1770.00
6	000002600	20	1089.00
7	000002899	48	1524.00
8	000003367	49	885.00
9	000003692	22	1524.00
10	000003757	46	1878.00
11	000004953	45	885.00
12	000005733	18	1089.00
13	000005798	13	885.00
14	000006045	19	1089.00
15	000006123	18	1878.00
16	000006357	36	1878.00
17	000006747	24	885.00
18	000007000	22	1089.00

Chapter 8

Query Viewer and Report Manager

Query Viewer

Query Viewer provides access to run and print queries, but does not enable you to create, delete, or edit queries.

Query Viewer is a read-only version of Query Manager. Query Viewer enables security administrators to limit some users to read-only access for all queries so that they can only view or print queries.

Query Viewer retrieves all of the queries to which you have access but for which you have not editing or creating capabilities.

Home | Worklist | MultiCh

Query Name begins with

Search Advanced Search

Search Results Too many items met your search criteria. Only the first 300 items displayed.

*Folder View: -- All Folders --

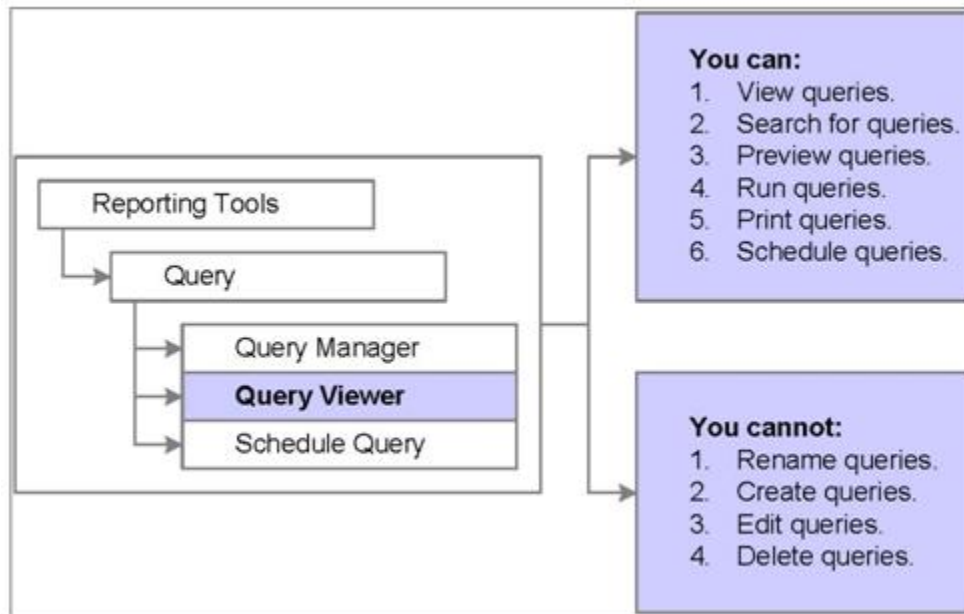
Query Name	Description	Owner	Folder	Run to HTML	Run to Excel	Schedule	Add to Favorites
AD701__ADMISSIONS_ACTIONS_TBL	AD701---Admissions Actions Tbl	Public		HTML	Excel	Schedule	Favorite
AD702__TEST_TABLES	AD702---Test Tables	Public		HTML	Excel	Schedule	Favorite
AD703__RECRUIT_CATEGORY_TBL	AD703---Recruit Category Tbl	Public		HTML	Excel	Schedule	Favorite
AD704__REFERRAL_SOURCE_TBL	AD704---Referral Source Tbl	Public		HTML	Excel	Schedule	Favorite
AD705__REGION_TABLE	AD705---Region Table	Public		HTML	Excel	Schedule	Favorite
AD710__SUMMARY_TYPE_TABLE	AD710---Summary Type Table	Public		HTML	Excel	Schedule	Favorite
AD711__ADMIT_TYPE_TABLE	AD711---Admit Type Table	Public		HTML	Excel	Schedule	Favorite
AD712__APPLICATION_CENTER_TAB	AD712---Application Center Tab	Public		HTML	Excel	Schedule	Favorite
AD713__EVALUATION_TABLE	AD713---Evaluation Table	Public		HTML	Excel	Schedule	Favorite
AD714__EVALUATION_COMMITTEE_T	AD714---Evaluation Committee T	Public		HTML	Excel	Schedule	Favorite
AD715__ADMISSIONS_EVLTN_STATU	AD715---Admissions Evltn Statu	Public		HTML	Excel	Schedule	Favorite

Note: if you cannot access Query Manager, you can still view queries through Query Viewer.

Steps to View a Query Using Query Viewer

1. Select Reporting Tools, Query, Query Viewer.
2. Search for a query.
3. Click the HTML, Excel link to view the output.

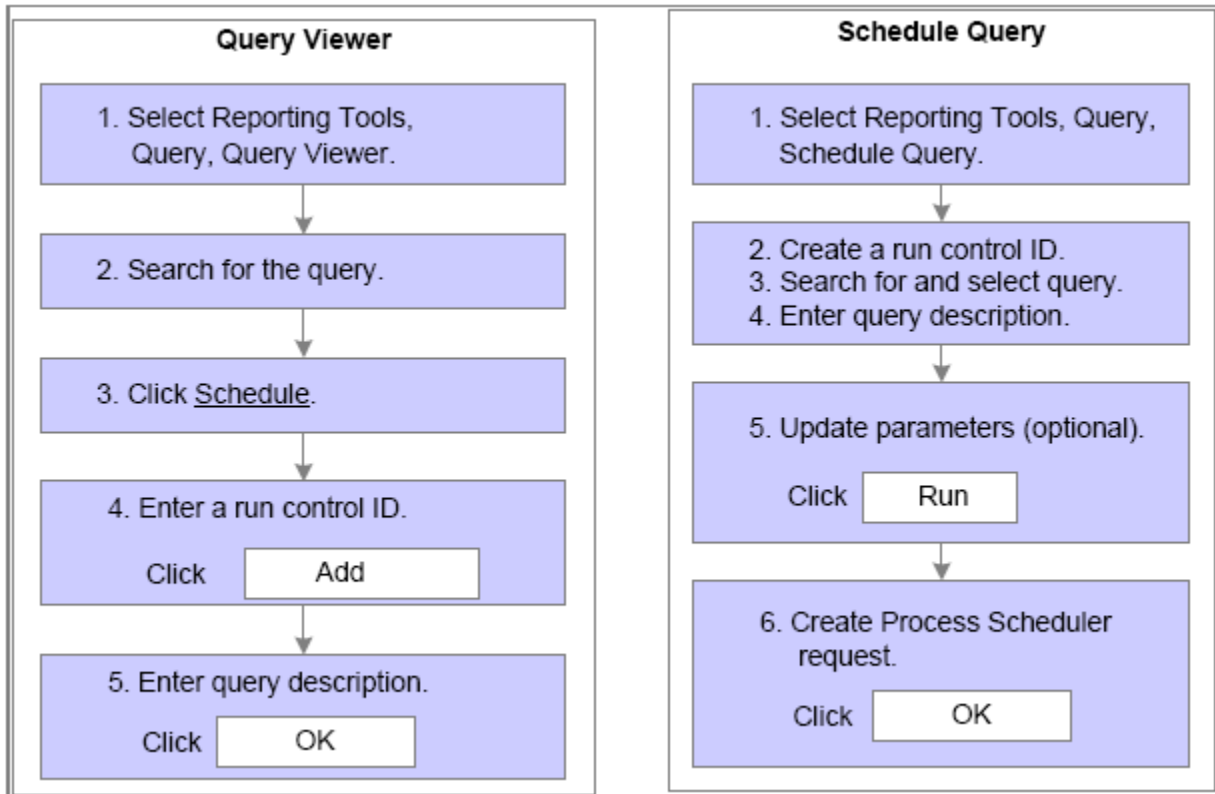
Uses of Query Viewer



Scheduling a Query

You use the Schedule a Query component to run queries at specified times.

Steps to schedule a query:



Report Manager

Separate Handout

**Congratulations!!
You have completed Query Basics**