

# Advanced Query

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The Oracle logo, consisting of the word "ORACLE" in white capital letters on a red rectangular background.

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# About your Presenter

- PeopleSoft Experience: 15 years
  - 5 years as a customer
  - 10 years with Oracle
- Conference presenter: 10 years
- Author: 3 books
  - PeopleTools
  - Lifecycle Management
  - PeopleSoft Mobile



# jsmpros

**VIRTUAL & ONSITE TRAINING**

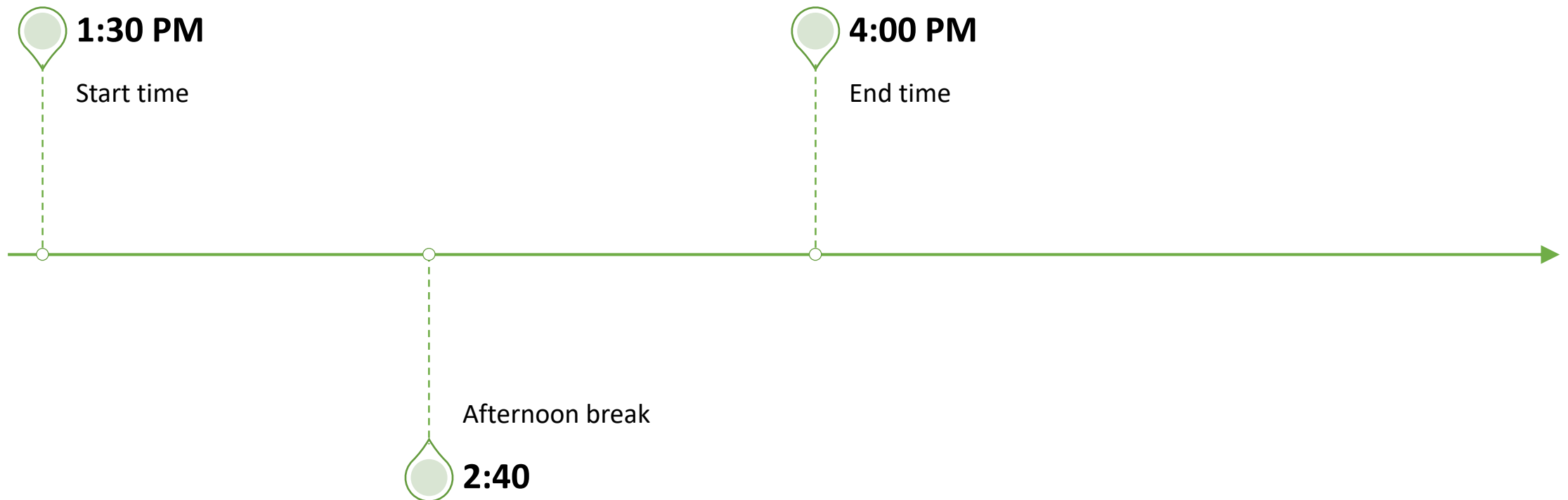


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# Logistics





# Agenda

- Drillable URL Expression
- Image Properties
- Composite Query

# Why Query? Data Source for the Following

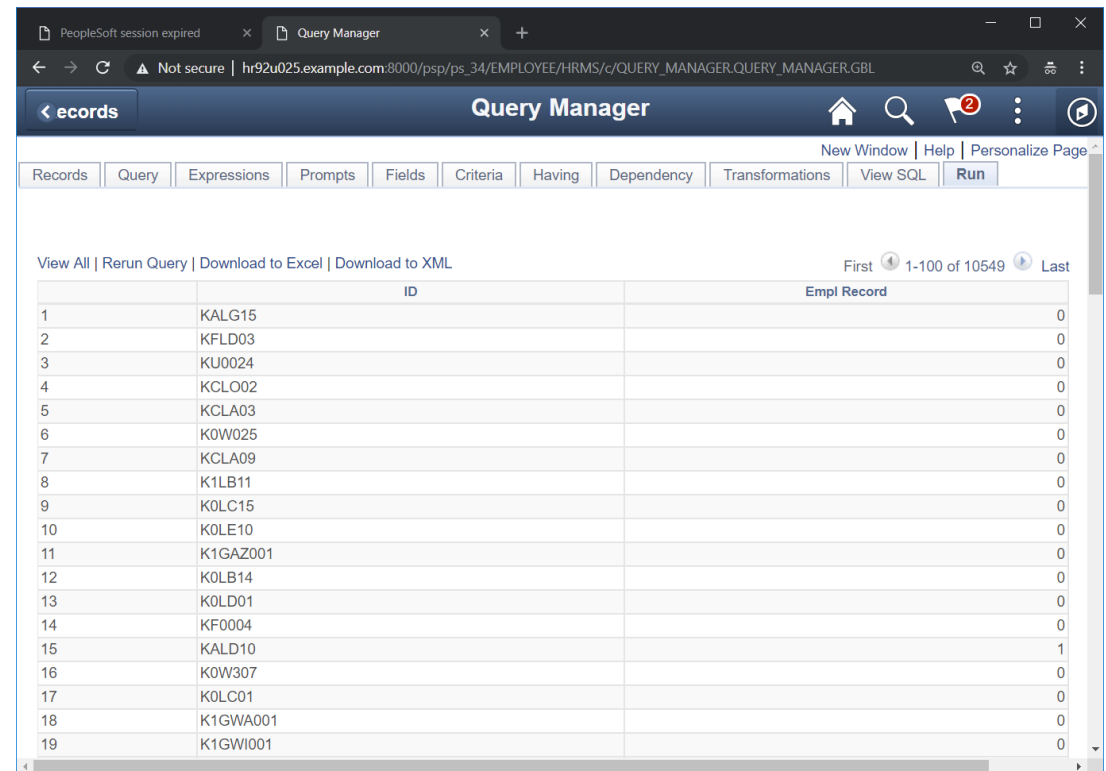
1. Keyword search framework (Elastic and SES)
2. Pivot Grids
3. Fluid search pages (Pivot Grids or Keyword search)
4. BI Publisher
5. Pagelets (Homepages and WorkCenters)
6. Custom processes (PeopleCode API)?
7. AWE User Lists
8. Anything else?

# Drillable URLs

## Actionable Queries

# Creating the Base Query

- Reporting Tools > Query > Query Manager
- Create a new Query from record **JOB**
- Select the following fields:
  - EMPLID
  - EMPL\_RCD
- Relational join JOBCODE\_TBL



The screenshot shows the PeopleSoft Query Manager interface. The browser address bar indicates the URL: hr92u025.example.com:8000/ps/ps\_34/EMPLOYEE/HRMS/c/QUERY\_MANAGER.QUERY\_MANAGER.GBL. The interface includes a navigation bar with tabs for Records, Query, Expressions, Prompts, Fields, Criteria, Having, Dependency, Transformations, View SQL, and Run. Below the navigation bar, there are links for View All, Rerun Query, Download to Excel, and Download to XML. The main area displays a table with 19 rows and 2 columns: ID and Empl Record. The table is sorted by ID in ascending order. The first 18 rows have an Empl Record value of 0, while the 19th row has a value of 1.

	ID	Empl Record
1	KALG15	0
2	KFLD03	0
3	KU0024	0
4	KCLO02	0
5	KCLA03	0
6	K0W025	0
7	KCLA09	0
8	K1LB11	0
9	K0LC15	0
10	K0LE10	0
11	K1GAZ001	0
12	K0LB14	0
13	K0LD01	0
14	KF0004	0
15	KALD10	1
16	K0W307	0
17	K0LC01	0
18	K1GWA001	0
19	K1GWI001	0



# Criteria: Employees Paid Below Minimum

- Add Criteria to the JOB (A record) ANNUAL\_RT field
- Operator: Less than
- Right-hand side: SAL\_RANGE\_MIN\_RATE (B record)

The screenshot shows the 'Query Manager' application window with the 'Edit Criteria Properties' dialog box open. The dialog has two main sections for defining criteria expressions.

**Expression 1:**

- Choose Expression 1 Type:** The 'Field' radio button is selected.
- Choose Record and Field:** The search results show 'Record Alias.Fieldname' and 'A.ANNUAL\_RT - Annual Rate'.

**Expression 2:**

- Choose Expression 2 Type:** The 'Field' radio button is selected.
- Choose Record and Field:** The search results show 'Record Alias.Fieldname' and 'B.SAL\_RANGE\_MIN\_RATE - Salary'.

**\*Condition Type:** A dropdown menu is set to 'less than'.

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

# Drilling URL: Job Data component

- Add a Drilling URL expression
- When prompted, select Component URL
- Portal: EMPLOYEE, Node: HRMS, Content Reference: Workforce Administration > Job Information > Job Data

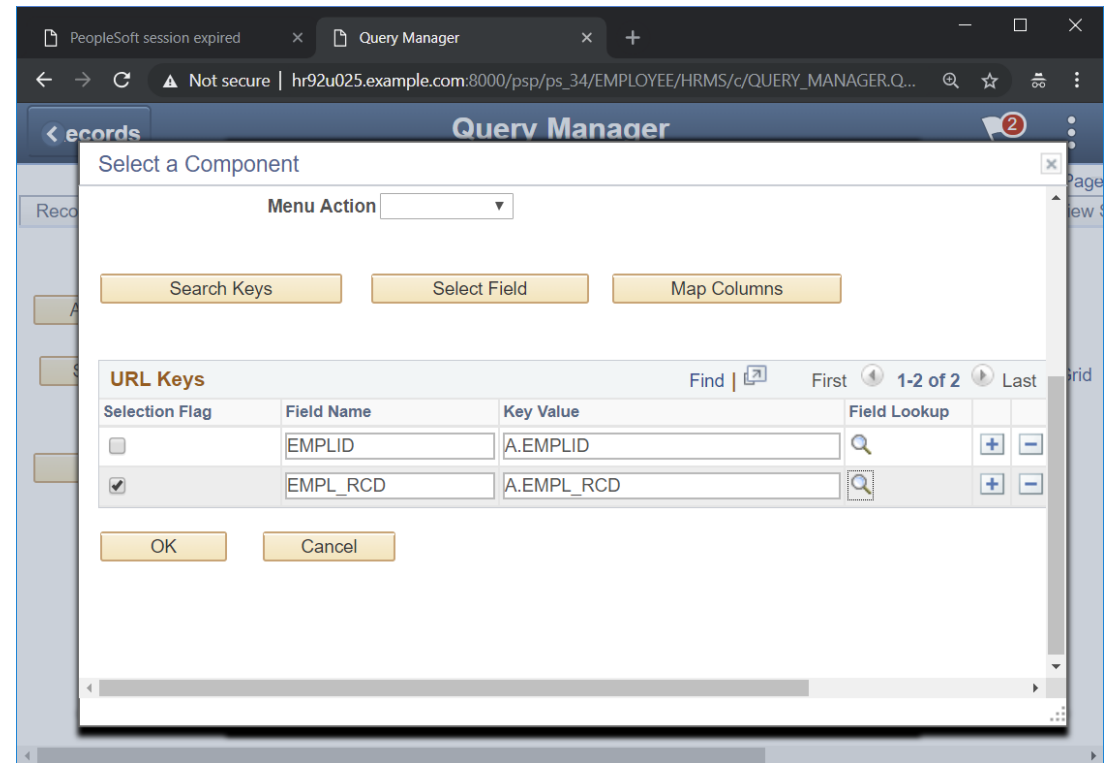
The screenshot shows a web browser window with the title 'Query Manager'. The address bar shows a URL starting with 'hr92u025.example.com:8000/psp/ps\_34/EMPLOYEE/HRMS/c/QUERY\_MANAGER.Q...'. The main content area is titled 'Select a Component' and contains several input fields with search icons:

- Portal Name: EMPLOYEE
- Node Name: HRMS
- Content Reference: (empty)
- \*Menu Name: (empty)
- \*Market: (empty)
- \*Component: (empty)
- Page: (empty)
- Menu Action: (dropdown menu)

There is a checkbox labeled 'Use psc' and a link labeled 'Add Content Reference Link'. At the bottom, there are three buttons: 'Search Keys', 'Select Field', and 'Map Columns'.

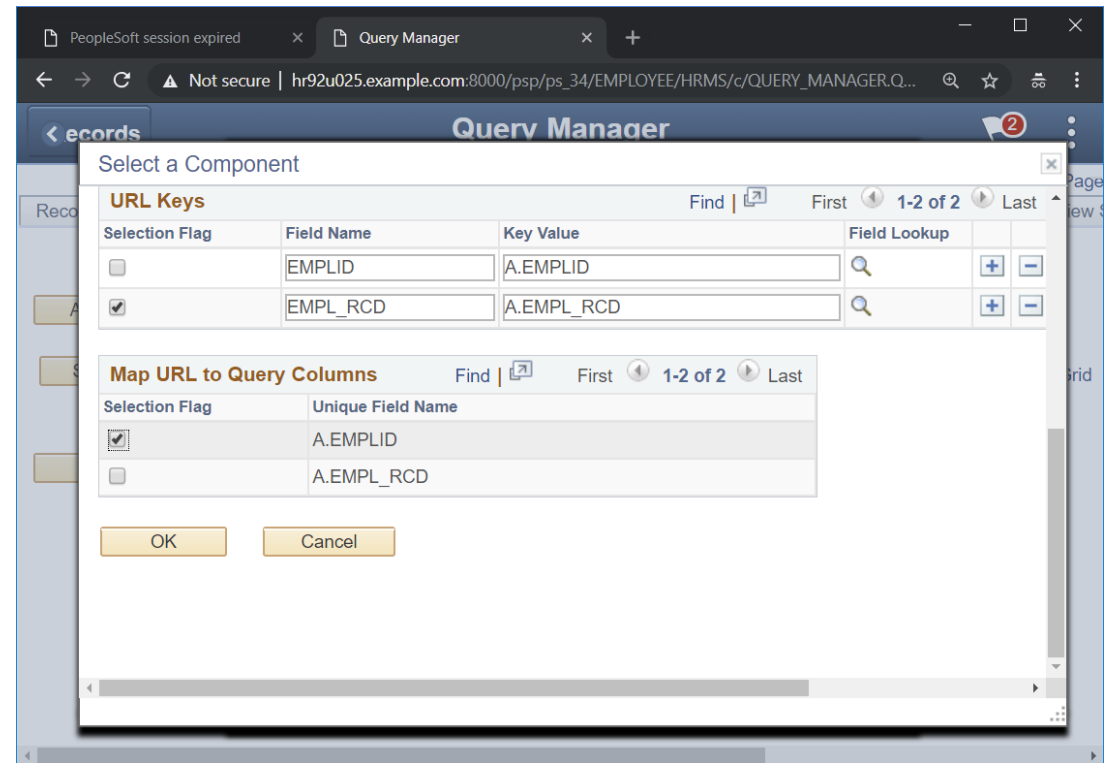
# Drilling URL: Search Keys

- To map data from the query into component search keys, click the Search Keys button
- In the grid below, check the Selection Flag checkbox and then select a query column



# Drilling URL: Map Columns

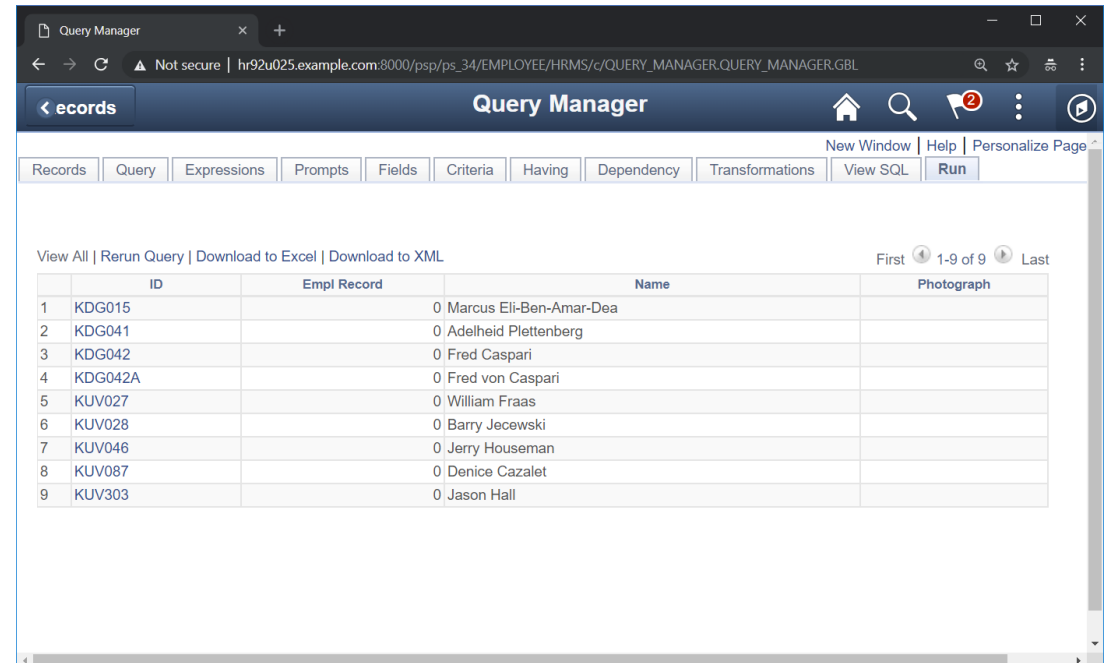
- To turn a column into a Drilling URL, click the **Map Columns** button
- Place checkmark into the appropriate column
- Click OK and OK to close the expression builder
- Run the query to test it
- The EMPLID should now launch Job Data and bypass search



# Images

# Employee Photo

- EOAW\_FLPHOTO\_VW contains employee photos
- Add this record into query, joining on A.EMPLID
- Select the following columns:
  - NAME
  - EMPLOYEE\_PHOTO
- Running the query will produce fewer rows (inner join) and no photo



Query Manager

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

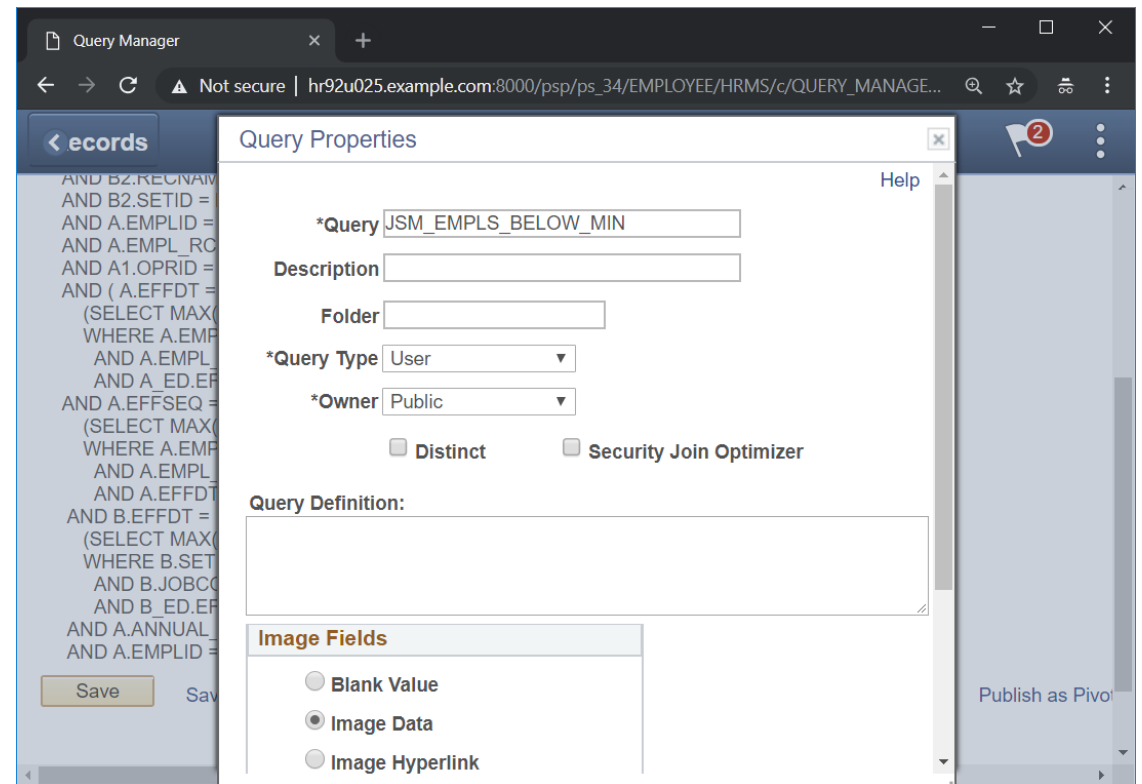
View All | Rerun Query | Download to Excel | Download to XML

First 1-9 of 9 Last

	ID	Empl Record	Name	Photograph
1	KDG015	0	Marcus Eli-Ben-Amar-Dea	
2	KDG041	0	Adelheid Plettenberg	
3	KDG042	0	Fred Caspari	
4	KDG042A	0	Fred von Caspari	
5	KUV027	0	William Fraas	
6	KUV028	0	Barry Jecewski	
7	KUV046	0	Jerry Houseman	
8	KUV087	0	Denice Cazalet	
9	KUV303	0	Jason Hall	

# Image Field Properties

- To render an image, change the **Image Fields** query property to **Image Data**
- Specify a Query Name to continue
- Rerun the query to see photos
- Change Query Properties to Image Hyperlink if using this query as a data source (pagelet wizard, QAS, etc)



# Composite Query

## Querying queries



# Creating Base Queries

- Create a PUBLIC query named **JSM\_JOB** that selects the following fields from JOB
  - EMPLID
  - EMPL\_RCD
  - SETID\_DEPT
  - DEPT
  - JOBCODE
- Create a PUBLIC query named **JSM\_DEPT** that selects the following from DEPT\_TBL
  - SETID
  - DEPTID
  - DESCR

# Composite Query Foundation Queries

- Reporting Tools > Composite Query > Composite Query Manager
- Add a New Value
  - Name: JSM\_COMPOSITE
  - Query 1: JSM\_JOB
  - Alias 1: J1
  - Query 2: JSM\_DEPT
  - Alias 2: D1

The screenshot shows a web browser window titled 'Composite Query Manager'. The address bar indicates a URL: `hr92u025.example.com:8000/psp/ps_46/EMPLOYEE/HRMS/c/QUERY_MAN...`. The page has a dark blue header with the text 'Select Base Q...' and a red notification icon. Below the header, the main content area is titled 'Select Base Query'. There is a 'Next >' button in the top right. The 'Composite Query Name' is set to 'JSM\_COMPOSITE'. A section titled 'Base Queries' contains four input fields: 'Query Name 1' with value 'JSM\_JOB', 'Query Alias 1' with value 'J1', 'Query Name 2' with value 'JSM\_DEPT', and 'Query Alias 2' with value 'D1'. Each name field has a magnifying glass icon to its right. A 'Cancel' button is located at the bottom left of the form.

# Composite Query Joins

- Change the Join type to **Left Outer Join**
- Join DEPTID to DEPTID
- Join SETID\_DEPT to SETID

Composite Query Manager

Specify Query Joins

Next >

Composite Query Name JSM\_COMPOSITE

Query Alias 1	Query Name 1	*Join to Related Query	Query Alias 2	Query Name 2
J1	JSM_JOB	Left Outer Join	D1	JSM_DEPT

Query Join Details

Query Name	*Query Field	*Condition Type	Query Name	*Query Field		
JSM_JOB	A.DEPTID	equal to	JSM_DEPT	A.DEPTID	+	-
JSM_JOB	A.SETID_DEPT	equal to	JSM_DEPT	A.SETID	+	-

Cancel

# Composite Query Fields

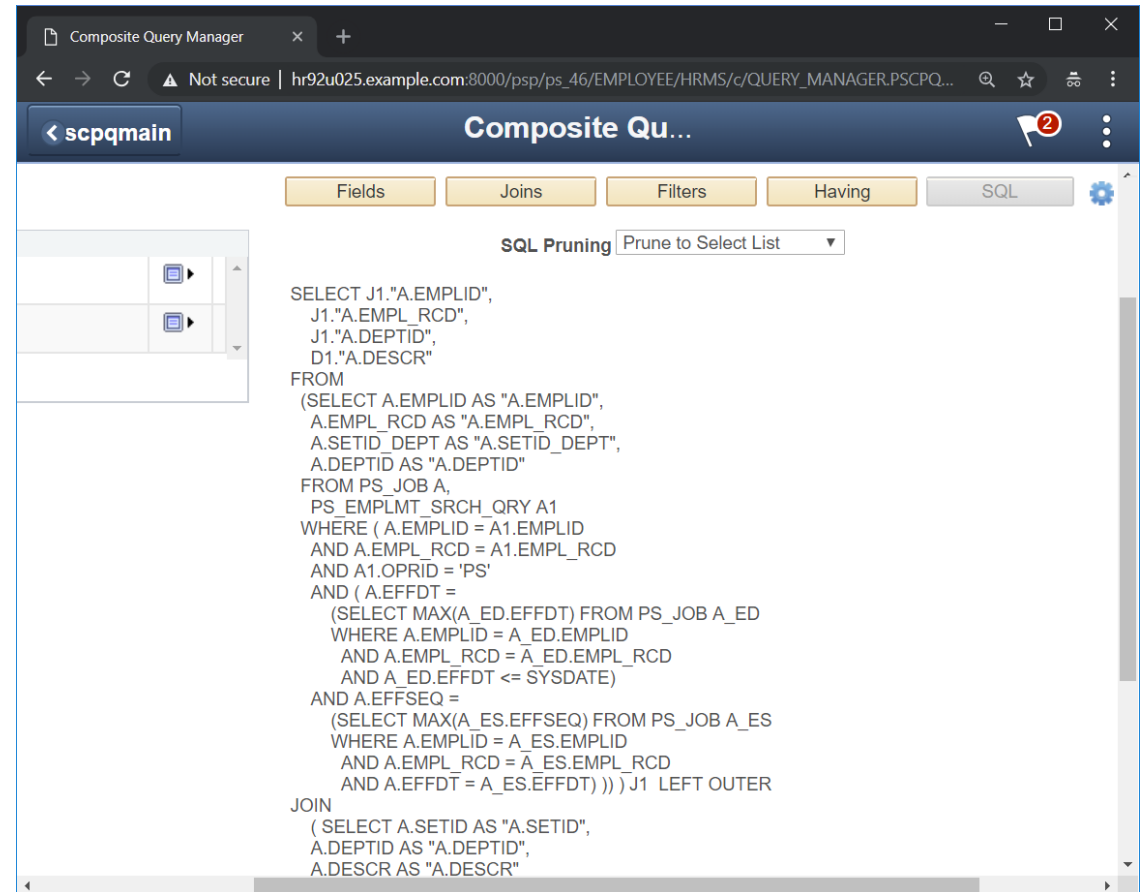
- Select the following fields:
  - EMPLID
  - EMPL\_RCD
  - DEPTID
  - DESCR
- Use the Gear menu to Run/Preview

The screenshot shows the 'Composite Query Manager' web application. The browser address bar indicates the URL: `hr92u025.example.com:8000/psp/ps_46/EMPLOYEE/HRMS/c/QUERY_MANAGER.PSCPQ...`. The application header includes a 'scpqmain' button and a 'Composite Qu...' title. A 'Preview' section is visible, containing a 'Pruning Type' dropdown menu with options: 'No Pruning' (selected), 'Standard Pruning', and 'Prune to Select List'. To the right of the dropdown is a 'Maximum Rows Fetched' input field set to '100', a 'Preview' button, and a 'Download' link. Below these controls is a table with the following data:

	ID	Empl Record	Dept ID	Descr
1	00012		0 GM004	Research & Development
2	0002		0 GFPRO03	Department Production QA04AR
3	0003		0 GFPRO03	Department Production QA04AR
4	0004		0 GFPRO04	Department Production QA04PR
5	0022		0 HXDEPT01	
6	0023		0 HXDEPT01	
7	0024		0 HXDEPT01	
8	0025		0 HXDEPT01	
9	0032		0 HXDEPT01	
10	0034		0 HXDEPT01	
11	0035		0 HXDEPT01	
12	0036		0 HXDEPT01	
13	0037		0 HXDEPT01	
14	0038		0 HXDEPT01	

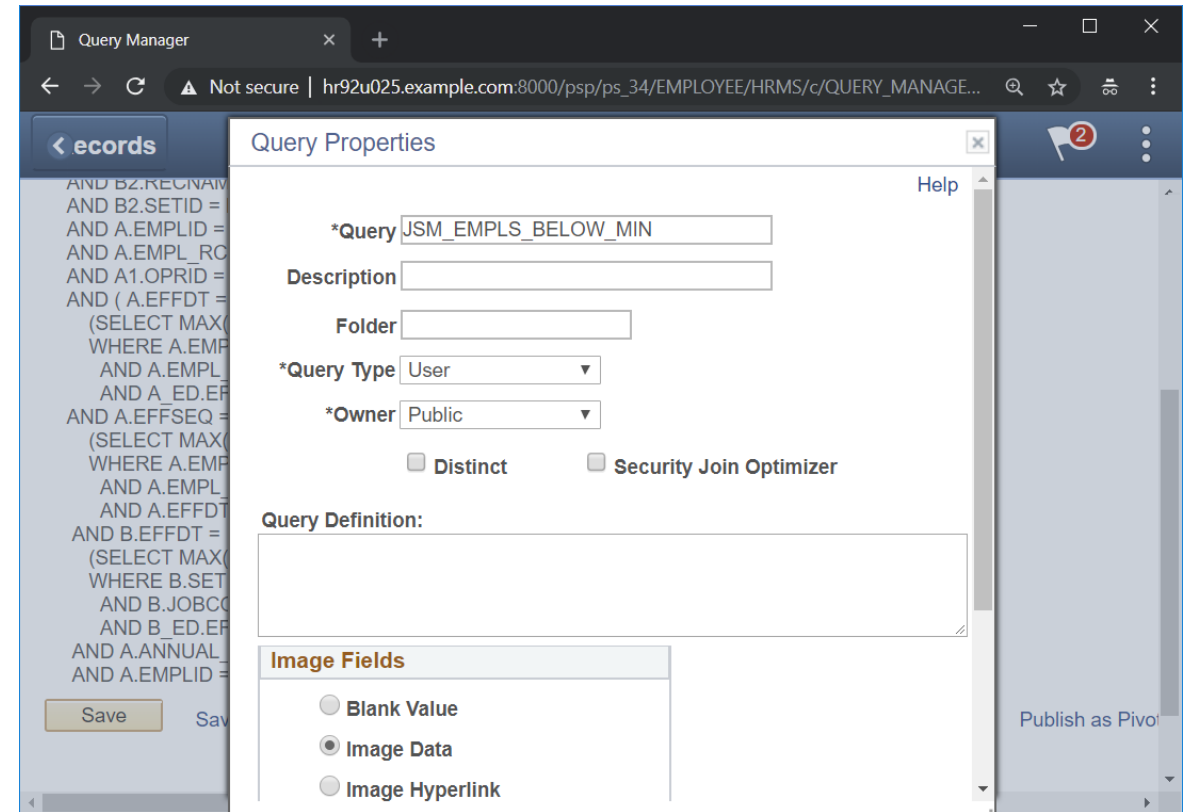
# SQL and Pruning

- Switch to SQL View
- Use the Pruning option to change the SQL



# Drillable URLs

- Use the Actions menu in the upper left to add a Component Drilling URL
- Configure the drill to point to the Job component
- Map data from the query into search keys



# Q&A

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