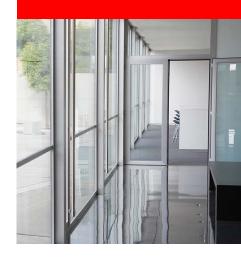# ORACLE® PeopleSoft®

Making the Most of PeopleSoft Query

Brent Mohl
Applications Technology

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

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Session **Agenda**

- What this session is about

- PS Query – Recent Improvements

- More than just a query tool

- Connected Query – what's new

  - Tips and techniques

- Questions

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What this Session is About

Making the most of

v.s.

Tips and techniques

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Session Agenda

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PS Query – Recent Improvements
8.48 – 8.51

- 8.48

  – PS Query results can serve as a data source for PeopleSoft
    XML Publisher.

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Reminder: As of June 1, 2011, Oracle will discontinue distribution of Business Objects Enterprise and Crystal Reports with PeopleTools. Existing customers may use the license previously received from Oracle. PeopleSoft reports will continue to be delivered using Oracle XML Publisher, which is included free-of-charge.

If you already own a PeopleSoft application and want to keep using Crystal Reports…	If you are a new customer and want to use Crystal Reports…
• The license you have already received is still valid. • Oracle will continue to certify new versions of Business Objects products with future PeopleTools releases. You will need to purchase these future releases from SAP/Business Objects if you wish to use them.	• Oracle will continue to certify new Business Objects products with future PeopleTools releases. • You will need to purchase a license for these products directly from SAP/Business Objects.

Details:

– All customers who have received a licensed copy of Business Objects products from Oracle with PeopleTools will be able to continue using the product according to the provided license terms.

– Oracle plans to continue to certify future versions of Business Objects products with future PeopleTools releases. Customers who wish to use future versions of Business Objects products with PeopleSoft will need to obtain appropriate license and support directly from SAP/Business Objects.

– Oracle will continue to package Oracle XML Publisher with PeopleTools. All customers will have the option to use this product at no charge. All of the critical reports included with PeopleSoft applications will be converted to XML Publisher format and included with future PeopleSoft releases.

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PS Query – Recent Improvements
8.48 – 8.51

- 8.49
  - PS Query supports **dirty reads**. Performance increases as queries do not lock on other INSERT and UPDATE operations.

- 8.50
  - add **in-tree criteria** prompts to your queries, and define tree option in Expression 2 type.
  - add **email as an output type** for scheduled query (any Application Engine program) results. With this option, you can schedule queries to run and have the results emailed directly to recipients (not just a link to the Report Manager).

PS Query – Recent Improvements
8.48 – 8.51

8.50

• Drilling URL

- • Using Query Manager, you can define drilling URLs that are associated with this query; and all these settings are saved into database with prompt, criteria, and other metadata for this query. When you execute this query through Query Manager or Query Viewer, the query results page shows results as links, which you can click to access other browsers. Depending on how drilling URLs are defined, the new browser is either a PIA page, or another query result page, or even an external link.

• Download to XML

- • Query results are downloaded to the browser as web browser format and there are options enabling you to open, save, or cancel the downloaded file. If you click Open, the XML formatted query result is downloaded to the browser. The Download to XML link is also available on the Query Manager - Run page. In the Schedule Query component, two new formats, XML and XMLP, produce webrowser XML and XMLP format results..

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PS Query – Recent Improvements
8.48 – 8.51

8.50

- Security Join Optimizer
  - In the Query Properties page, the new Security Join Optimizer option enables you to define whether a query, that contains multiple joins to the same query security record, should be optimized.

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PS Query – Recent Improvements
8.48 – 8.51

8.50

- ## Reporting Console

  - introduced - provides a single interface for a user to manage and schedule reports. From the Reporting Console users can run a report, schedule a report, organize reports and share reports.

- ## Connected Query

  - provides the ability to create a single XML file based on a set of queries with parent-child relationships. A Connected Query is a hierarchical object built with existing PeopleSoft Queries.

- ## CQ → XMLP Sub reports

  - Connected Query can be used as a data source for XML Publisher reports that require sub reports.
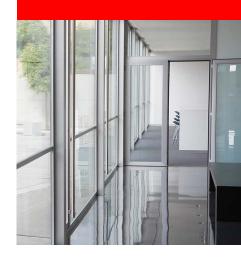
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PS Query – Recent Improvements
8.48 – 8.51

8.51

- The effective date operator is available in the Connected Query Manager page as a part of the field mapping process.
- From the Connected Query Manager page, report developers can click the Properties button to access the Connected Query Properties page
- From the Select a Query page, users can click the Select Field button to display the Select Query Columns section, where they can:
  - Select query result columns to form field name and value pairs.
  - Define order of the appended value pair in the URL.
- Beginning with release 8.51, PeopleTools supports attachment drilling URLs for SES (Secure Enterprise Search). If you use SES and belong to the HTTP File View role, you can view the attachment URL file. Otherwise, a message appears that says you are not authorized for viewing attachments from database using HTTP.

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Session Agenda

- What this session is about

- PS Query – Recent Improvements

- More than just a query tool

- Connected Query – what's new
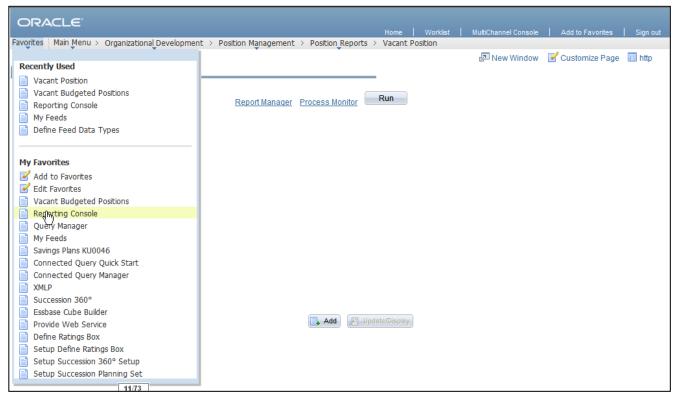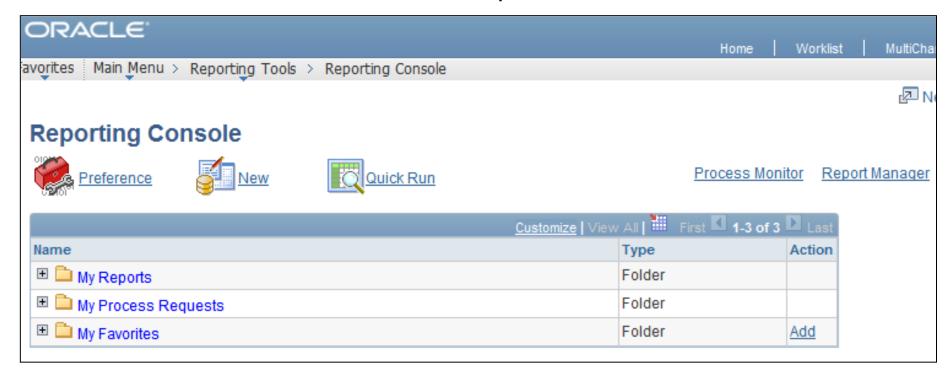
  – Tips and techniques

- Questions

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More than just a query tool

- Reporting Console
- Email attachments
- Drilling URLs
- Feeds
- Pagelets
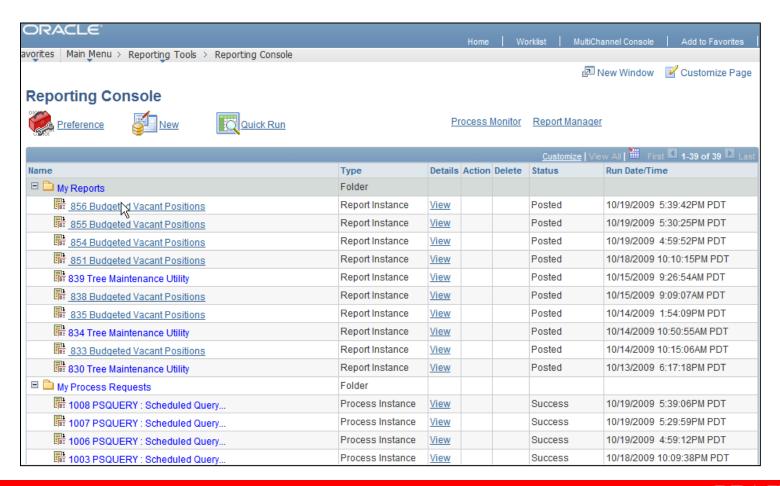- Web services
- Related Content
- Connected Query

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More Than Just A Reporting Tool
Reporting Console

- ## Since console
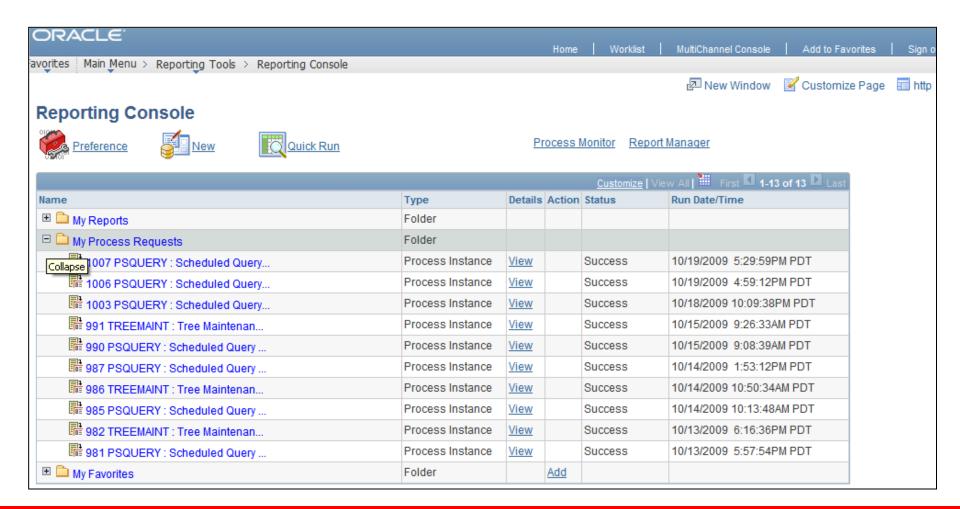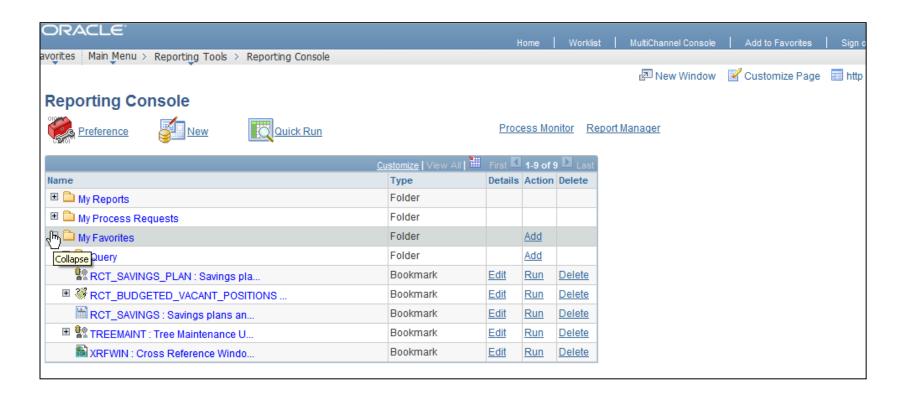 - ### Retrieve – Run – Schedule reports

More Than Just A Reporting Tool
Reporting Console

- Since console
  - Retrieve – Run – Schedule reports

More Than Just A Reporting Tool
Reporting Console

More Than Just A Reporting Tool
Reporting Console

More Than Just A Reporting Tool
Reporting Console

More Than Just A Reporting Tool
Reporting Console

More Than Just A Reporting Tool
Email Attachment

- Results emailed directly to recipients

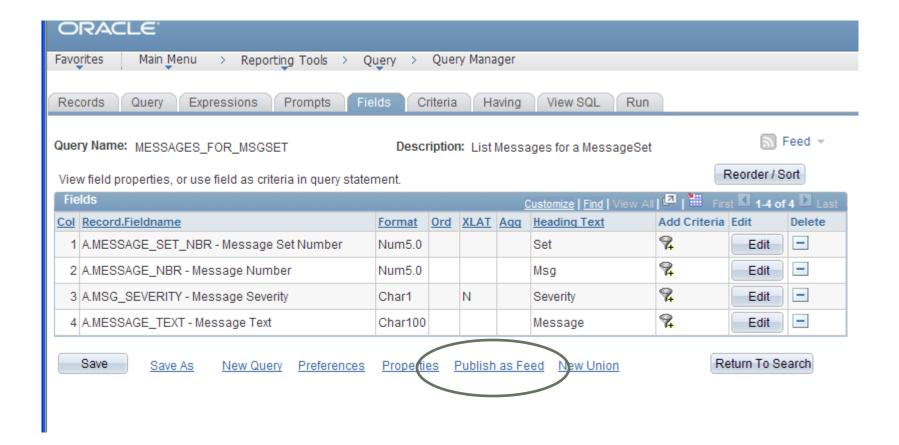# More Than Just A Reporting Tool
Email Attachment

- Results emailed directly to recipients
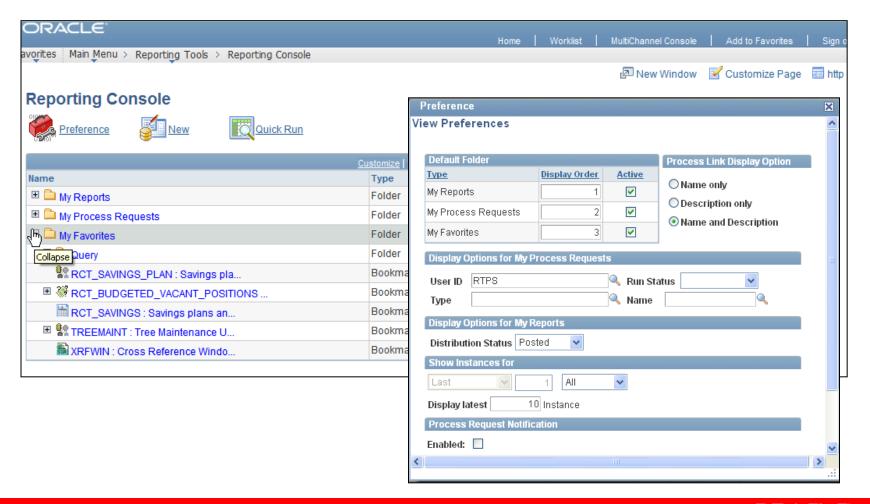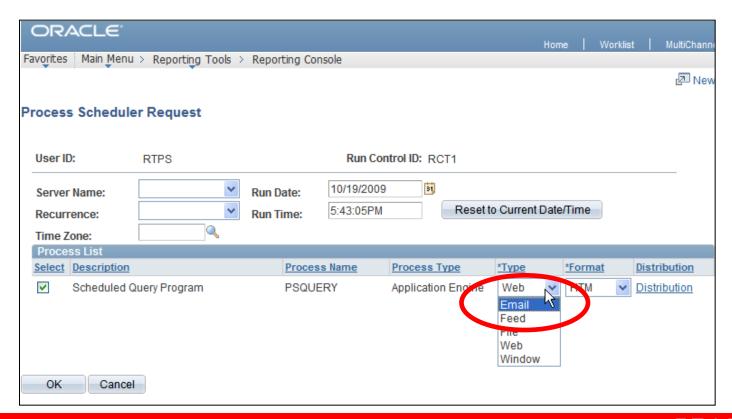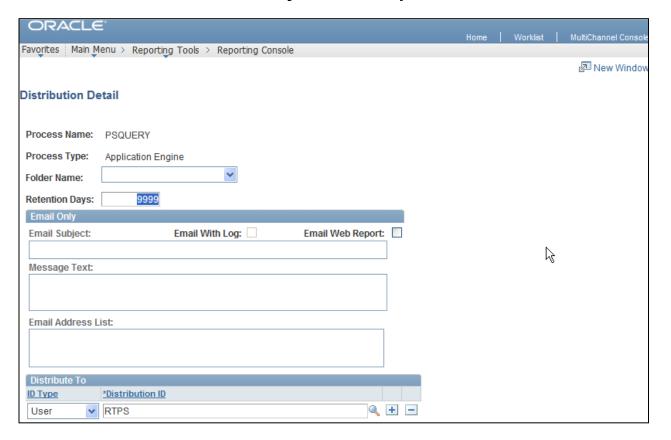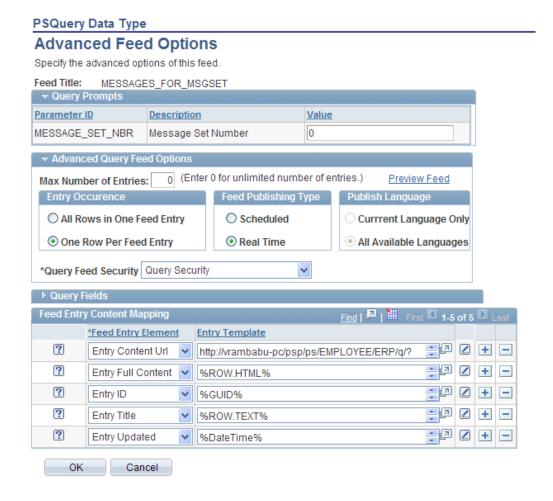
More Than Just A Reporting Tool
Drilling URLs

- Query Results are actionable.
- Also works with Excel output type.
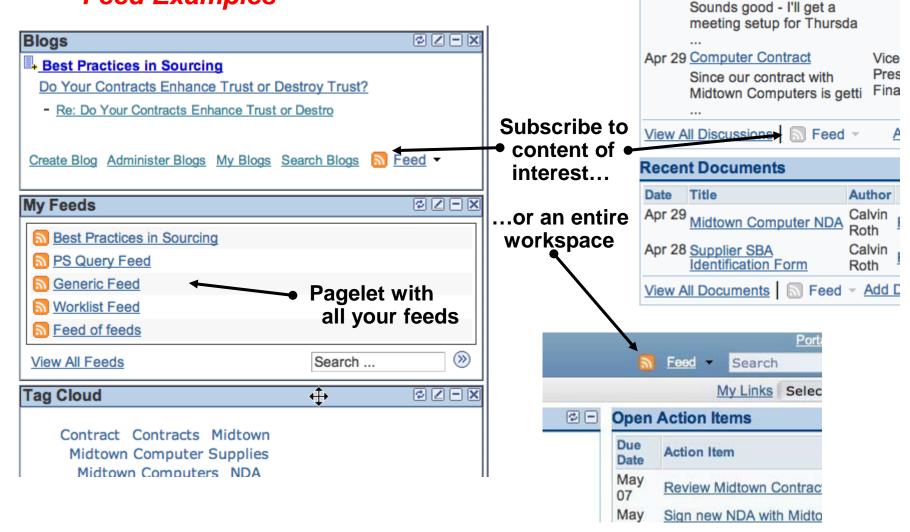
More Than Just A Reporting Tool
Publish A Query as a Feed

More Than Just A Reporting Tool
Publish A Query as a Feed

More Than Just A Reporting Tool
Feed Examples

Subscribe to content of interest…

…or an entire workspace

Pagelet with all your feeds

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More Than Just A Reporting Tool
Pagelets

- Pagelets can be built and published for the application homepage.

- Pagelets can also be used to appear on transaction pages

- Pagelet Wizard

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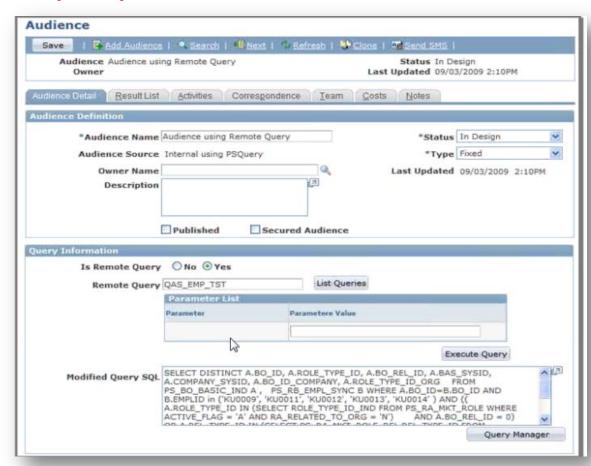
More Than Just A Reporting Tool
Query Access Services (QAS)

- Manage PS/Query remotely.

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More Than Just A Reporting Tool
Query Access Services (QAS)
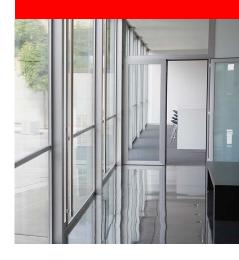
- Example: CRM

  Build an Audience
  from a Remote
  Query against
  Student system.

Session Agenda
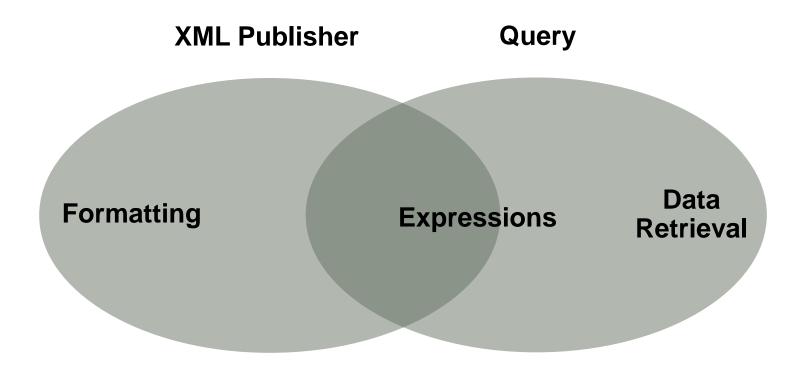
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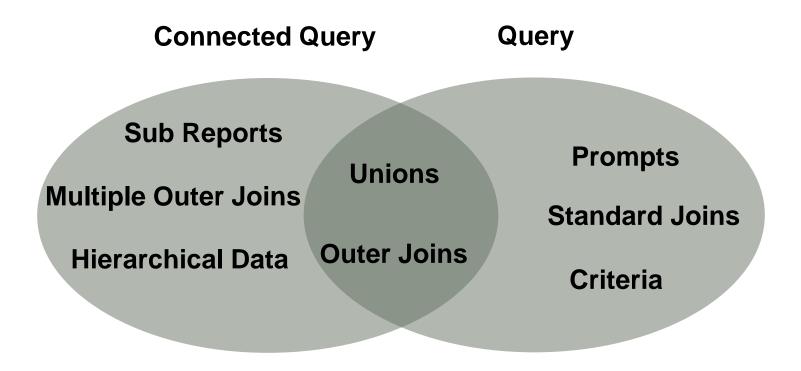
Connected Query, Query and XML Publisher

- ● Consider Connected Query instead of:
  - – Application Engine
  - – SQR
  - – Query with multiple outer joins and union
  - – Crystal Reports when multiple sub reports are needed

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Connected Query, Query and XML Publisher

XML Publisher   **Query**

Formatting   **Expressions**   **Data Retrieval**

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Connected Query, Query and XML Publisher

Connected Query   **Query**

Sub Reports

Multiple Outer Joins   **Unions**   **Prompts**

Hierarchical Data   **Outer Joins**   **Standard Joins**

                                                         Criteria

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Connected Query **New Features**

- Properties page
  - Hide mapped fields
  - Non-formatted XML
  - Show Query statistics
  - Debug a single Query
- EFFDT operators
- Processing performance enhancements

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Connected Query New Features
Properties Page

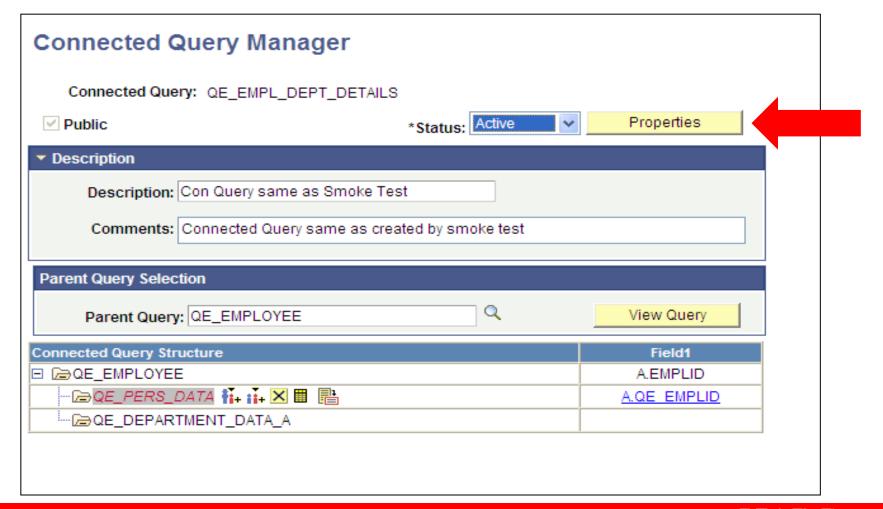© 2011 Oracle Corporation – Proprietary and Confidential
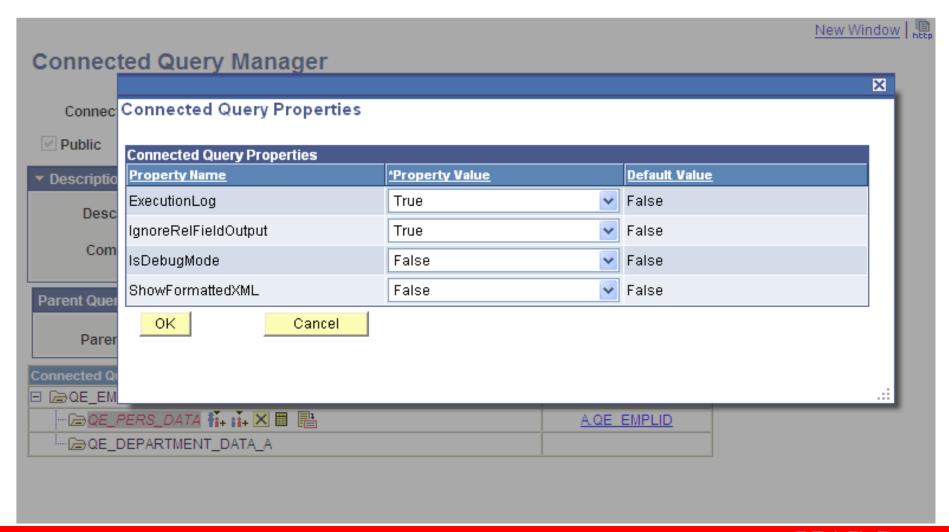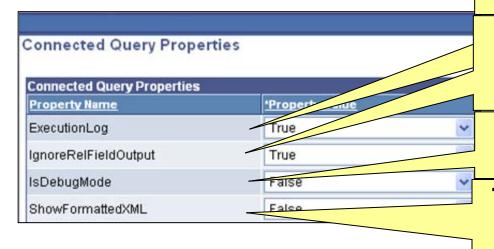
Connected Query New Features
Properties Page

Connected Query New Features

New Properties

Connected Query Properties

Connected Query Properties	
Property Name	**'Property Value**
ExecutionLog	True
IgnoreRelFieldOutput	True
IsDebugMode	False
ShowFormattedXML	False

Creates Execution log including statistics (WriteToLog)

Does not repeat linked fields in child queries, reducing size of XML output

Saves SQL and bind variables to Execution log

Turns on/off xml formatting (node indentations)

Setting to false reduces the size of XML output

Connected Query New Features
EFFDT Operators

Select fields from each Query then click 'Map Fields' button to map.   **Map Fields**

▸ **Parent Query - QE_EMPLOYEE**

Child Query - QE_DEPARTMENT_DATA_A

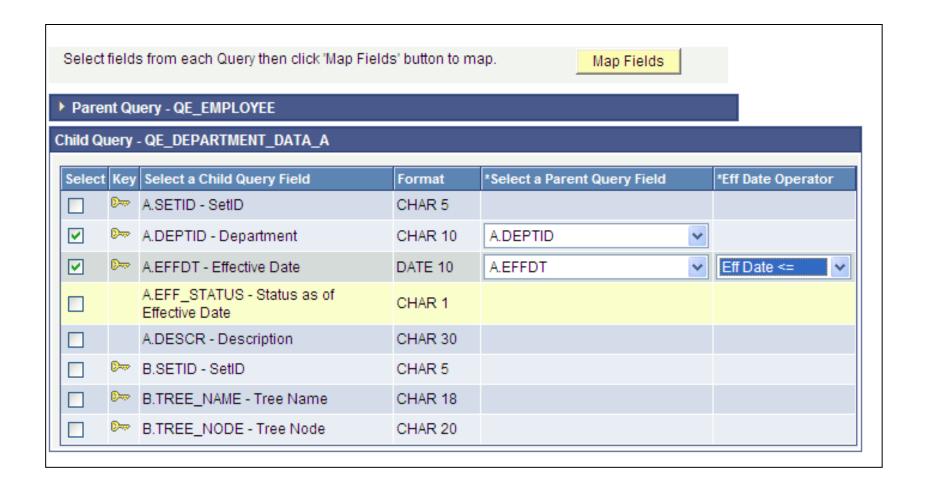| Select	Key	Select a Child Query Field	Format	*Select a Parent Query Field	*Eff Date Operator
☐	🔑	A.SETID - SetID	CHAR 5		
☑	🔑	A.DEPTID - Department	CHAR 10	A.DEPTID ∨	
☑	🔑	A.EFFDT - Effective Date	DATE 10	A.EFFDT ∨	Eff Date <= ∨
☐		A.EFF_STATUS - Status as of Effective Date	CHAR 1		
☐		A.DESCR - Description	CHAR 30		
☐	🔑	B.SETID - SetID	CHAR 5		
☐	🔑	B.TREE_NAME - Tree Name	CHAR 18		
☐	🔑	B.TREE_NODE - Tree Node	CHAR 20		

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Connected Query New Features

Performance Enhancements

- ## What we did:

  – Eliminated dependency on XMLDoc / Write XML data directly to file.

  – Eliminated csv temp file processing

- ## Results:

  – Less CPU and memory required (based on internal testing)

  – Substantial improvement in performance based on internal testing

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Connected Query
Tips and Techniques - Performance

- ## Query vs. Connected Query
  - Do basic joins in Query
  - Outer and Union joins: either Query or Connected Query
    - Query will run faster
    - Connected Query will be easier to build
    - Connected Query will not have join limitations

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Connected Query
Tips and Techniques - Performance

- **Limit the number of rows returned in parent queries**
  - The higher the parent, the more important this is
  - Use Query criteria and prompts to filter parent results

- **Limit the number of fields used**
  - The lower in the hierarchy, the more important this is
  - Reuse vs. clone/modify

- **Use Connected Query properties to reduce output**
  - ShowFormattedXML
  - IgnoreRelFldOutput

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Connected Query
Tips and Techniques – Execution Modes

- ## Preview Mode
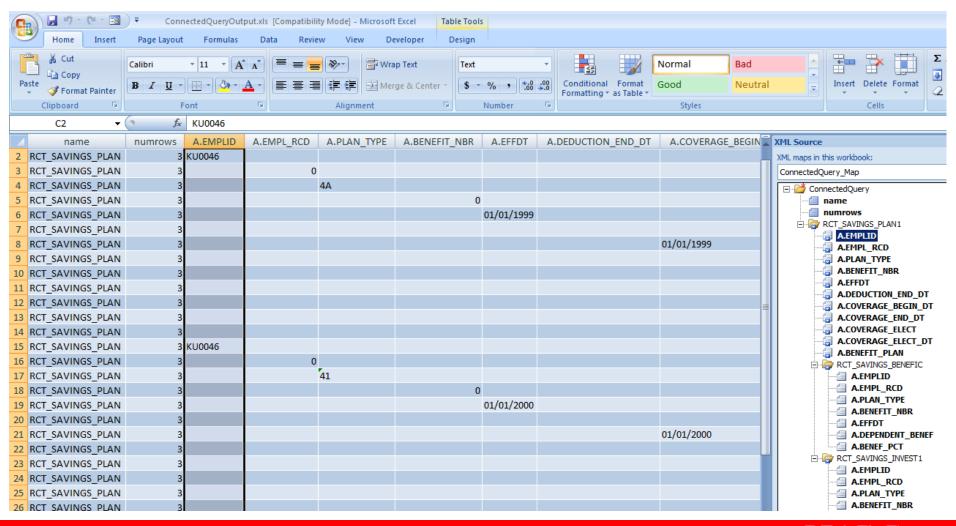

  Preview XML   Max Rows Fetched for Query: 6

  - Executes on the Application Server
  - More use for report development before moving to production
  - Limit rows returned if using in production

- ## XML Publisher Report Viewer

  - Will not run a Connected Query-based XMLP report
  - Executes on the application server

- ## Scheduled and Run to Window

  - Execute on the Process Scheduler server

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Connected Query
Tips and Techniques – Can I Kill It?

- Yes

- All member queries share the same process ID

- Killing the process will kill the member queries

- Process Scheduler:
  - "Cancel Request"

- Application Server:
  - Kill any member query and it kills the entire CQ process

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Connected Query
Tips and Techniques – Use Excel to view XML

Learn More
PeopleSoft Information Development Resources

Hosted & Mobile PeopleBooks - PeopleTools PeopleBooks are available in three formats: Hosted PeopleBooks, PDF's, and Amazon's Kindle format. All can be accessed here:

http://www.oracle.com/technetwork/documentation/psftent-090284.html

Doc Home Pages – constantly updated direct links to PeopleBooks, PeopleBook Updates, Release Notes, Installation and Upgrade Guides, and other useful product documentation, all accessible from one My Oracle Support location.

PeopleTools 8.51 Documentation Home Page [ID 1127534.1]

https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1127534.1

Information Portal - locate the documentation, training, and other info needed to help with your implementation process. Customers searching for this information should make this their first online destination.

http://www.oracle.com/us/products/applications/054275.html

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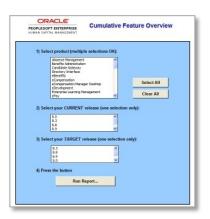
PeopleTools Viewlets

- http://download.oracle.com/peopletools/viewlets.html

Learn More
PeopleSoft Information Development Resources

Cumulative Feature Overview (CFO)- Providing concise descriptions of new and enhanced solutions and functionality that have become available starting with the 8.4 release through our latest 8.51 release.

https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&doctype=SYSTEMDOC&id=793143.1

Upgrade Resource Report Tools - helps you find all the documentation, scripts, and files you need for your upgrade project.

https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&doctype=SYSTEMDOC&id=1117047.1

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