Go Beyond the Basics with PeopleSoft nVision and Query

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Your Presenter

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Agenda

- About SpearMC
- PeopleSoft Query
  - 8.54 Query Highlights
  - Query - Beyond the Basics
- PeopleSoft nVision
  - 8.54 nVision Highlights
  - nVision - Beyond the Basics
About SpearMC
About SpearMC

Founded in 2004, SpearMC is a technology and professional services firm specializing in

- PeopleSoft Financials and Supply Chain Management
- PeopleSoft Human Capital Management and Payroll
- ERP Architecture and Application Development
- Project and Program Management (PMO)
- Change Management
- ERP Training
- Mobile Technology
About SpearMC

Regional offices in Chicago, Oklahoma City, Seattle and San Francisco

- We focus on local market delivery and capability development in line with industry focus areas unique to the regions we serve.

- Our local and well-connected network of top-tier business analysts, technical leads, developers and project managers keep travel cost to a minimum.
About SpearMC

A decade of sustained and focused growth.

A DECADE OF SHARED SUCCESS

2004
San Francisco
Brick and mortar come together to build our very first office

2007
Chicago
Our windy city office opens its doors

2010
Seattle
The Emerald City opens its arms to SpearMC

2012
Oklahoma City
The plains makes room for SpearMC

Once again, Inc Magazine’s 500 | 5000 list includes us
SpearMC becomes an authorized Oracle reseller

SF Business Times ranks SpearMC #9 on its Bay Area’s Fastest Growing Companies list
Inc Magazine recognizes us again by including Spear MC on its 500 | 5000 list

2014
Denver
Coming soon to the mile-high city

FROM HERE, IT ONLY GETS BETTER
We’re hiring more talented people, and expanding our capabilities, all while maintaining our promise to provide the best, most personalized service within our industry. We want to thank everyone who’s been a part of this story. Our clients, employees and families are equally as responsible for all of our success.

Cheers to 10 more years of excellence
spearmc.com
About SpearMC

Each member of our Leadership Team leverages over 20 years of experience in Technology, Financial and Business Transformation.
About SpearMC

Industry focus areas include:

- Energy
- Transportation
- Healthcare/Biotech
- Government
- Media/Technology
- Consumer Products
- Financial Services
- Higher Education
About SpearMC

Oracle Gold Partner since 2008:

- Gold Level Partner
- PeopleSoft Specialization
- Applications Reseller
- Hardware Reseller
PeopleSoft Query
PeopleSoft Query

Query the Key to Accessing PeopleSoft Data

- Saved Queries:
  - Reusable, Secure Data Access!

- Query
  - Scheduled query/report or email
  - Ad-hoc analysis (use drilling URLs)

- Data source provider
  - PS/nVision
  - BI Publisher (with Connected Query)
  - Pivot Grid
  - Query Access Service
  - RSS Feed
  - Pagelet
  - Related Actions/Related Content
PeopleSoft Query

Query continues to have benefits...

- Ad-Hoc & Simple Tabular Reporting Capability
- Quickly puts operational information in the hands of decision makers
- Can schedule long running queries

- Power of SQL
- Database Platform Independence
- Output to XLS, HTM, XML, PDF, TXT, XMLP, XFORM
8.54 Query Highlights

- Default values for prompts
- Image support
- Image URLs
- Find Query/Connected Query definitional references
- Composite query (including record and field dependencies)

- Multiple query security records
- Support for Microsoft Excel 2007 and higher versions
  - Send more than 64 thousand rows of query output to Microsoft Excel
Default Prompt Values

- Query prompts can now have default values, which are specified as constants or by the use of system variables such as %Date, %DateTime, %Time

- Prompts can be set as optional
- Query supports the use of image fields in the query definition.
- Setting the Image Fields property under the Query Properties page determines how these field values are displayed in the Query result set.
If the image field property is set to Image Data, the image field value (binary image) will be displayed as an embedded image in the result set when you run the query to HTML output format.
You are able to use the Image URL link in the Edit Expression Properties page to access the Select a Query page where you can build URLs in the image URL format.
Definitional References

Navigation: Reporting Tools, Query, Query Manager, Lookup References Link
Use the Definitional References to Query page (QRY_DEFN_REF) to view all PeopleSoft definitional objects that use this particular query as the data source. The results show the definition ID, definition type, and definition sub-types if they are available. These object types are included in the Definitional References to Query page:

- BI Publisher (with the Report Definition or Data Source Definition subtypes)
- Connected Query
- Composite Query
- Pivot Grid
- PeopleSoft Search Framework
- Cube Builder, Cube Outline, and Cube Dimension
- Query Feed and Query Feed Template
Composite Query

Navigation: Reporting Tools, Composite Query, Composite Query Manager

- Composite Query enables you to combine data from existing queries and then apply filters and aggregates before presenting the report results.
- Composite Query retrieves multiple levels of related information on existing queries and presents the combined data as a single and flattened query result.

Select two based queries in the Select Based Query page.

Specify Query Joins

Composite Query Name: EMPL_AND_JOB

<table>
<thead>
<tr>
<th>Joins</th>
<th>Query Alias 1</th>
<th>Query Name 1</th>
<th>*Join to Related Query</th>
<th>Query Alias 2</th>
<th>Query Name 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EMPLOYEE</td>
<td>QE_EMPLOYEE</td>
<td>Inner Join</td>
<td>JOB</td>
<td>QE_JOBCODE</td>
</tr>
</tbody>
</table>

Query Join Details

<table>
<thead>
<tr>
<th>Query Name</th>
<th>Query Field</th>
<th>*Condition Type</th>
<th>Query Name</th>
<th>Query Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>QE_EMPLOYEE</td>
<td>A.GE_JOBCODE</td>
<td>equal to</td>
<td>QE_JOBCODE</td>
<td>A.GE_JOBCODE</td>
</tr>
</tbody>
</table>
Use the Dependency page to specify whether a record or field can be pruned during the SQL pruning process in Composite Query.

- The dependency settings in the dependency page are used only for the SQL pruning process in Composite Query.
- If a field is selected in the Query Field Name drop-down list, the field that it depends on is not pruned during the SQL pruning process.
Multiple Query Security Records

Advanced query security option added to Application Designer

Row Level Security

- This feature allows up to five Query Security Records to be associated with a single record.
- Including the ability to associate security with non-key fields.
- This feature should be used sparingly because multiple additional joins will affect query performance.

Navigation:

Open The Record Properties dialog, click the Advanced Query Security Button, click add button.
Query - Beyond The Basics
Connected Query provides the ability to create a single XML file based on a set of queries with parent-child relationships. A new folder for Connected Query has been added under Reporting Tools.

- A Connected Query is a hierarchical object built with existing PeopleSoft Queries.
- A parent query can nest “n” levels of child queries and any child query can have “m” sibling queries within a hierarchy.
- The output for connected query is always an XML file.
- Connected Query can be used as a data source for XML Publisher reports.

![Connected Query Quick Start](image)
Why Connected Query?

Connected Query vs. ‘Standard Query’ with multiple joined tables

- Parent query data would be repeated for each result row in standard query
- Hierarchical XML result (see example below) in connected query
- Multiple queries run as one using connected query

![Savings Plan Report](image)

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Once the child query is selected, click on the related fields icon to define how the child query is related to the parent query.
Connection Query Quick Start

Click to Preview XML to generate a sample XML file.

<table>
<thead>
<tr>
<th>Connected Query Structure</th>
<th>Field1</th>
<th>Field2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBB_PROJECTS</td>
<td>A.BUSINESS_UNIT</td>
<td>A.PROJECT_ID</td>
</tr>
<tr>
<td>MBB_PROJECT_ACTIVITY</td>
<td>A.BUSINESS_UNIT</td>
<td>A.PROJECT_ID</td>
</tr>
</tbody>
</table>
To provide the flexibility to accomplish reporting tasks from Pure Internet Architecture, PeopleTools has provided a way of extracting, transforming, and distributing data from there without the need to access any client tools.

In addition to the currently available formats (HTM, PDF, TXT, XLS, XML, and XMLP), PeopleSoft Query now includes a user-defined output format called XFORM, which triggers a transformation (XSLT).

You must provide the XSLT to define the desired transformation of the extracted data.

Then, to generate the transformed output and distribute the data results, you schedule the query process.
Pivot Grid Wizard

- Uses Query as data source
- Displays in Grid or Chart
- Drag/drop among rows, columns and filters
- Drilldown to details
- Change filters
- Export data into Excel
Pivot Grid Wizard
# Pivot Grid Wizard

## Specify Data Model Options

Specify the values for the Display and View Options for the Pivot Grid and Chart.

### Grid and Chart View Options

#### Data Source Columns

<table>
<thead>
<tr>
<th>Field</th>
<th>Format</th>
<th>Axis</th>
<th>Grid Axis</th>
<th>Chart Axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Supplier Name</td>
<td>String</td>
<td>Filter</td>
<td>Filter</td>
<td></td>
</tr>
<tr>
<td>2. Supplier ID</td>
<td>String</td>
<td>Filter</td>
<td>Filter</td>
<td></td>
</tr>
<tr>
<td>3. Short Name</td>
<td>String</td>
<td>Row</td>
<td>X-Axis</td>
<td></td>
</tr>
<tr>
<td>4. Location</td>
<td>String</td>
<td>Filter</td>
<td>Filter</td>
<td></td>
</tr>
<tr>
<td>5. Business Unit</td>
<td>String</td>
<td>Filter</td>
<td>Filter</td>
<td></td>
</tr>
<tr>
<td>6. Count</td>
<td>Number</td>
<td>Column</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Currency</td>
<td>String</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Converted Payable Balance</td>
<td>Signed Number</td>
<td>Column</td>
<td>Y-Axis</td>
<td></td>
</tr>
</tbody>
</table>

#### Grid Options

- Save
- Notify

#### Chart Options

#### Viewer Options

### Pivot Grid Display

Display Page for the Pivot Grid and Chart

**Title**: Liability Exposure by Supplier

<table>
<thead>
<tr>
<th>Supplier Name</th>
<th>Supplier ID</th>
<th>Location</th>
<th>Count</th>
<th>Converted Payable Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP-UNLMA-001</td>
<td>4</td>
<td></td>
<td>464123280.59</td>
<td>74123280.59</td>
</tr>
<tr>
<td>ERBIE'S-001</td>
<td>5</td>
<td></td>
<td>206565.49</td>
<td>206565.49</td>
</tr>
<tr>
<td>FROMAGE-001</td>
<td>4</td>
<td></td>
<td>433650.50</td>
<td>433650.50</td>
</tr>
<tr>
<td>QUICKPACE-001</td>
<td>10</td>
<td></td>
<td>200910.00</td>
<td>200910.00</td>
</tr>
<tr>
<td>TRAILBLAZE-001</td>
<td>7</td>
<td></td>
<td>20419676.50</td>
<td>20419676.50</td>
</tr>
<tr>
<td>XYZDELIVER-001</td>
<td>2</td>
<td></td>
<td>200091.00</td>
<td>200091.00</td>
</tr>
</tbody>
</table>

**Chart**: Liability Exposure by Supplier
Querying Results with Drilling URLs

When you access the Run page of a query that has a Drilling URL defined, its query results are shown as links.

Types of drilling URLs:
- **Query** - Runs another query
- **Component** - Launches the component page
- **External** - Redirects the external URL
- **Attachment** - Opens attachment
- **Free Form** - Can enter any URL
- **Image** - New in 8.54
Drilling URL Example

Query URL

Create a prompt for Business Unit and Project and map the values from your one query to incorporate into your new query.
Email Query Results

Ability to Email Application Engine Results

- You are able to 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).
Ability to Add an In-Tree Criteria Prompt

You can schedule queries that have in-tree prompts using the Schedule Query component or using the Schedule links in the Query Manager and Query Viewer.
Using Prompts

Optional Prompts
• User can either provide the prompt value to return results for a specific value or leave it blank to return rows for all values.
Advanced Features

Union
- Use to join separate queries

Left Outer Joins
- Retrieves all the data in the first record and only matching data from the second record.
- As 8.53 - You can add a left outer join to any record in a query (not just the last record)

Subquery
- Subset of data used by a main query

Expressions
- Free form SQL which can be displayed as a column in query output
Expressions are calculations that PeopleSoft Query can perform as part of a query when PS Query doesn’t provide a way by default to calculate a value.

- Expressions will vary based on database platform being utilized.
- You can create thousands of different expressions using a combination of the following:
  - Database Hints (must begin with /*+)
  - SQL Functions (ABD, TRIM, CURRENT_DATE)
  - Operators (+, -, *, /, <, >, AND, OR, etc.)
  - Values (4, A, False, True, INV_AMT, DISC_AMT)
Using Expressions

CASE Statements

Write an expression that looks between two dates:
• First, if the **Hire Date** is between the two prompt dates, it will return "New Hire"
• Second, if the **Termination Date** is between the two dates, it will return "New Term"
• Third, if those two conditions are not met, it will simply need to return "Existing"

Create a prompt based on HIRE_DT
Why is RSS so Important?

Users just want to be told when something that's important to them changed

- As of PeopleTools 8.5, users now have the ability to subscribe to application data and get told when something they care about changed.

![Image of PeopleTools interface with fields]

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PeopleSoft nVision
PeopleSoft nVision

nVision is a good tool for reporting data from PeopleSoft in an end user 'usable' format

- Allows end users to retrieve information from the PeopleSoft database using ledgers, trees, and queries and to place it into an Excel spreadsheet
- Has been the reporting product of choice for financial reporting, but also used frequently with other modules, including HR
- nVision Bursting
  - Delivered Security template and scopes in nVision
  - Custom programmatic generation of rules
    - Scopes and report requests
    - Layouts and report requests
nVision Components
# nVision Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chartfields</td>
<td>• Accounts, Project ID, Cost Centers (DeptID)</td>
</tr>
<tr>
<td>Trees</td>
<td>• Graphical representation of chartfields</td>
</tr>
<tr>
<td></td>
<td>• Trees are used to present chartfield hierarchy via nodes, roll-ups and detail values</td>
</tr>
<tr>
<td>Ledger Structure &amp; Data</td>
<td>• Store GL summary balances by accounting period at the chartfield level</td>
</tr>
<tr>
<td></td>
<td>• Structure dictates how the ledger will store USD and Local currencies</td>
</tr>
<tr>
<td>Layouts</td>
<td>• Excel-based templates that contain the “rules” or “instructions” that tell PeopleSoft how to retrieve and present ledger data</td>
</tr>
<tr>
<td></td>
<td>• All report formatting is done within the layouts</td>
</tr>
<tr>
<td>Scopes</td>
<td>• Used to narrow or filter the amount of data that a report request retrieves</td>
</tr>
<tr>
<td></td>
<td>• Scopes allow for a limited set of layouts to be used repeatedly without having to go into the layout and hard-code criteria</td>
</tr>
<tr>
<td>Report Requests</td>
<td>• Contain the report generation criteria such as Report Name, Report Layout, Scope, Reporting Date, Business Unit, Variables and Distribution</td>
</tr>
<tr>
<td>Report Books</td>
<td>• Allow for several report requests to be grouped together and run at the same time.</td>
</tr>
<tr>
<td></td>
<td>• Report Books are run via the PeopleSoft Process Scheduler either on an ad-hoc or scheduled basis</td>
</tr>
<tr>
<td>End-User Reports</td>
<td>• Excel worksheets that are distributed to Financial end-users</td>
</tr>
</tbody>
</table>
8.54 nVision Highlights
Accepting Tree Effective-Date

These changes will affect only matrix layouts, as only in matrix layouts we have an option of selecting trees — Tabular layouts are not affected.
Supporting “Not in Criteria”

Beside adding, modifying, and deleting the nodes from the criteria, the PS/nVision Layout designer now includes a new feature called “Not in Criteria”, which allows Layout designers to include fields for building negative criteria; for example, selecting nodes for not-in clause part of the Query.
8.54 nVision Highlights

Restoring Query Prompts to Web Version of nVision

- The Define Report Request page of PS/nVision will include a new sub page called Query Prompts
- Prompts, where you are able to add all the required parameters for queries in that given report
- These parameters are stored as records in a new table called Query Parameters; and these records are identified by the Query name, report ID, and Business Unit as a primary key
Ability to Define the Types of Report Requests

Select nVision, Share Report Request from the nVision menu...

Select Users/Roles to share your report

- nVision Designer recognizes the concept of public and private report requests
- Currently, only the web-based version honors the public or private report requests security
- This enhancement enables the users of the Windows client of PS/nVision to:
  - Have the flexibility of making report request either public or private
  - Define whether to share the report with other users
nVision - Beyond The Basics
nVision – Beyond The Basics

nVision Layout Comparison

<table>
<thead>
<tr>
<th>Feature / Function</th>
<th>Matrix Layout</th>
<th>Tabular Layout</th>
<th>Query</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Sources</td>
<td>Multiple queries and ledgers, labels</td>
<td>Single query</td>
<td>Single query</td>
</tr>
<tr>
<td>Data</td>
<td>Numbers in matrix, text in labels and variables</td>
<td>Text and numbers</td>
<td>Text and numbers</td>
</tr>
<tr>
<td>Data delivery</td>
<td>Matrix intersections of field criteria and queries (amounts) of label and field criteria (text)</td>
<td>Selected query result columns, one data row per spreadsheet row</td>
<td>All query result columns, one data row per spreadsheet row</td>
</tr>
<tr>
<td>Layouts</td>
<td>One per workbook, but can have multiple tabular layouts in same workbook.</td>
<td>Multiple worksheets per workbook</td>
<td>None: produces one sheet in template workbook</td>
</tr>
<tr>
<td>Selection criteria</td>
<td>Scope, Business Unit, Effective Dates, Query Ledger, TimeSpan, Field, Label, String</td>
<td>Scope, Query</td>
<td>Query</td>
</tr>
<tr>
<td>PSnVision variables</td>
<td>Yes</td>
<td>No (but can put in matrix layout)</td>
<td>No</td>
</tr>
<tr>
<td>Scope</td>
<td>Multiple instances from the layout workbook</td>
<td>Multiple instances from the layout workbook</td>
<td>None</td>
</tr>
<tr>
<td>nPlosion</td>
<td>Rows and columns</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Drilldown from instance</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>TimEspans</td>
<td>Yes, with data keyed by year, period</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Key differences between tabular layouts, matrix layouts, and Query:
nVision – Beyond The Basics

nVision Codes

nVision places code in Column A and Row 1. For more experienced users, that code can be added or modified without using the layout definition box.
Tabular Layout Benefits

- Extend nVision Reporting to Non-Ledger Tables
- Multiple Queries in 1 Layout
- Filter Query Data By Using Scopes
- Include Excel Features in Layout
  - Formatting and Formulas
  - Pivot Tables
  - Macros
- Schedule by Using Report Books
- Use Selected Fields From Queries

The nVision GUI was designed to prompt against Financial Ledger based tables, but can be used to pull data from any PeopleSoft table via a predefined query. You must know your field names and type them in instead of picking them from a prompt list.
Queries Used in Matrix Layout

- The query must include at least one aggregate (i.e. sum or count) column.
- You must include the aggregate as part of the query.
- The aggregate column must have a heading for identification (i.e. Sum Total Amount).
- Generally speaking, queries used in matrix reporting should not contain much criteria, as the matrix layout will limit the information returned in the results. This allows you to reuse a shell query for many different layouts.
Queries Used in Matrix Layout

Combination of query data and time spans populate the report...

The FISCAL_YEAR and ACCOUNTING_PERIOD requirement can be a problem for non-ledger PeopleSoft tables. However, this requirement can be fulfilled by joining an accounting date field to the calendar table and/or by creating a table view.
How to Limit Report Instances When Using Multiple Scope Fields?

Note: You can also create a dynamic record that is populated by a query and includes only the combinations of field values that actually have data for that reporting period.

PS/nVision normally produces a report instance for each combination of the selected nodes or detail values for all specified fields.

If you specify a field combination table, PS/nVision generates an instance of the report for only those field values that are listed as valid combinations on the table.
Using Variables

- Create in out-of-view area
- Put in all the nVision Variables you might want and label them
- Name the cell for each Variable using Define Name
## nVision – Beyond The Basics

### PS/nVision- Defined Names

Sample of names that can be inserted into cells on report layouts

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NvsElapsedTime</td>
<td>Indicates the elapsed time to produce this instance. To see this elapsed time in the instance, enter the formula =NvsElapsedTime in a cell and format the cell with a time format.</td>
</tr>
<tr>
<td>NvsEndTime</td>
<td>Indicates the time this instance was saved. To see this time in the instance, enter the formula =NvsEndTime in a cell and format the cell with a date or date/time format.</td>
</tr>
<tr>
<td>NvsHiddenSheet</td>
<td>Used on hidden layout sheets only to enable data retrieval on the sheet. By default, nVision will not process hidden layout sheets.</td>
</tr>
<tr>
<td>NvsInstanceHook</td>
<td>Indicates the name or reference of the macro to be run on completion of the instance.</td>
</tr>
<tr>
<td>NvsTreeASD</td>
<td>Stores the tree as of date from the report request.</td>
</tr>
<tr>
<td>NvsQueryName</td>
<td>Stores the name of the query that provides the data for this tabular layout or instance.</td>
</tr>
</tbody>
</table>
nVision Design Tips

- Different ledgers cannot be combined in one field.
- Different TimeSpans cannot be combined in one field.
- nPloded rows or columns cannot be combined with non-nPloded rows or columns.
- If any field criteria are specified in an individual cell, all field criteria should be specified in the cell, no field criteria will be inherited from the row, column, or worksheet.
- Take advantage of report variables and relative timespans to minimize layout maintenance.
- The XLS output is generated in the format of the Excel version on the Report Server. As a rule, you need to make sure your end-users have compatible versions of Excel to open the XLS output generated from the Report Server.
Questions?
Conference Presentations

**Quest Collaborate Conference Presentations from 2014**
- **Collaborate 2014** ERP Package Selection
- **Collaborate 2014** Consulting Companies – Friend or Foe
- **Collaborate 2014** PeopleSoft Cash Management
- **Collaborate 2014** PeopleSoft 9.2: Upgrade or Re-Implement?

**Regional User Group and ReConnect Presentations**
- **Jun 2014** Rocky Mtn RUG PeopleSoft 9.2 FMS Enhancements
- **Nov 2013** OKC PeopleSoft RUG PeopleSoft 9.2 Overview
- **July 2013** ReConnect Advanced Query and nVision
- **Nov 2012** Pacific Northwest RUG PeopleSoft 8.53 Enhancements

**Quest Collaborate Conference Presentations from 2012-2013**
- **Collaborate 2013** Essentials of Planning & Budgeting
- **Collaborate 2013** Multi-Currency and Multi-Book
- **Collaborate 2013** Cash Management 9.1
- **Collaborate 2012** PeopleSoft 9.1 Multi-Currency
- **Collaborate 2012** Do’s and Don’ts of ERP Training
- **Collaborate 2012** PeopleSoft Advanced Security Audit

**Oracle Open World Presentations**
- **Oracle Open World 2010** Query and nVision
- **Oracle Open World 2009** PeopleTools 8.52 Reporting
Collaborate 15

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