


PEOPLESOFT Data Warehouse – COGNOS

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Presenters – OMB

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COGNOS Agenda

- ▶ What is COGNOS Business Intelligence?
 - Dimensions
 - Measures
 - COGNOS Studios
 - Analysis
 - Report
 - Query


COGNOS Agenda

- ▶ How does COGNOS work?
 - Signing in
 - Navigation and Directories
 - Data Updated Nightly
 - Security Request (SFN 59165)
 - FIN Cube Definitions
 - Dimensions
 - Measures


COGNOS Agenda

- ▶ Future Development
 - ▶ Product Demo
 - ▶ Questions and Answers
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What is COGNOS Business Intelligence

- ▶ Data is stored in cube models which are static and allow for faster retrieval of data
 - ▶ Dimensionally modeled data use logical hierarchies to summarize and organize transactions
 - ▶ Data in cubes is updated nightly from PeopleSoft
 - ▶ GL, AP, Projects, and AR currently exist
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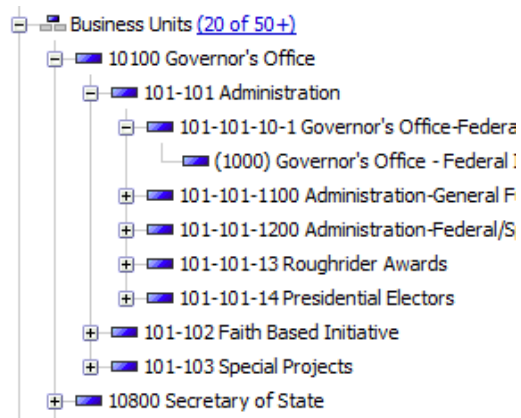
What is COGNOS Business Intelligence

- ▶ Users can build reports to
 - Isolate top or bottom performers
 - Identify positive or negative trends
 - Drill up and down in the dimensional levels to view the data from different perspectives
 - Explore the underlying factors that have contributed to a particular outcome
 - Focus on answers to very specific questions
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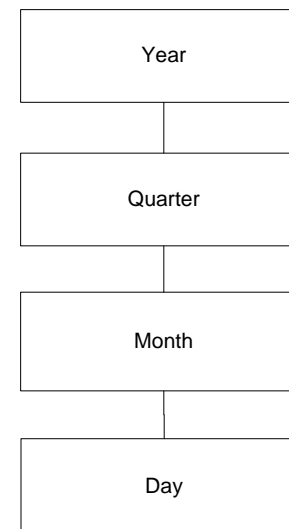
Dimensions

- ▶ Dimensions are the hierarchies or levels by which information can be aggregated.

Organizational Chart:



Time:



Measures

- ▶ Measures represent quantifiable results in terms of numeric data
- ▶ Examples:
 - Dollar amounts, i.e., budget, revenue, expenses
 - Counts, i.e., hours, number of transactions
 - Calculations and measurements, i.e., budget minus actuals, ratios, returns, margins

COGNOS Studios



Query
Studio

Query Studio is an easy-to-use authoring tool with which you can quickly create simple queries from the data stored in your database without having the skills of a professional report writer.

- Limited prompting is available for report design.



Report
Studio

With Report Studio, you can create advanced reports with more flexibility than any other studio available in COGNOS. Report Studio reports can contain charts, maps, lists, repeaters, or any other available report types using static data from relational or multi-dimensional data sources.

- Use for a more official, published report versus a query or analysis for internal use.
- Knowledge of SQL fundamentals is helpful.



Analysis
Studio

Analysis Studio enables business users to get fast answers to business questions so your organization can better understand its financial and operational needs. Analysis Studio is best for exploring information in multiple dimensions and for deep comparative analysis.

- Prompting cannot be used in Analysis Studio.

How Does COGNOS Work?

Signing into COGNOS

The screenshot shows a Windows Internet Explorer browser window displaying the North Dakota state portal. The browser's address bar shows the URL: https://www.connectnd.us/psp/ndrd/EMPLOYEE/EMPL/ls/WEBLIB_PTPP_SC.HOME.PAGE.FieldFormula.IScript_AppHP?pt_frame=NDS_BI_COGNOS&FolderPath=PORTAL_ROOT_OBJECT.NDS_BI_COGNOS&Folder=true. The page header includes the North Dakota logo, the text "nd.gov Official Portal for North Dakota State Government", and the date "2010.07.01". A navigation menu at the top contains links for "My Page", "FSA My Page", "ELM My Page", "HR / FIN / ELM / BI", "Guest", "Administration", and "Investor". On the right side, there are links for "Home", "Add to My Links", "Help", and "Sign out".

A left-hand navigation menu is visible, listing various services such as "Self Service", "Cognos", "Business Intelligence", "Financial PS Query", "HRMS PS Query", "Partners", "Catalog Management", "Enterprise Components", "PeopleSoft", "My Content", "Content Management", "Investor Portal", "Internal Controls Enforcer", "Portal Administration", "Application Diagnostics", "Tree Manager", "Reporting Tools", "People Tools", "Browse by Category", "Take a Survey", "Workspaces", "My Account Sign On", "My Instant Messaging", "My Alerts", "Change My Password", "My Personalizations", "My System Profile", and "My Dictionary".

The main content area features a "Main Menu" section with a "Cognos" link. Below the "Cognos" link, there is a "Business Intelligence" link with the text "Access to Business Intelligence" underneath it. A black arrow points from this "Business Intelligence" link to a callout box. The callout box is a white rectangle with a black border containing the text: "Business Intelligence link on the PeopleSoft portal".

The browser's status bar at the bottom shows the URL: https://www.connectnd.us/psp/ndrd/EMPLOYEE/EMPL/e?url=https%3a%2f%2fcognos.nd.gov&PORTALPARAM_PTCNAV=NDS_BI_COGNOS&EOPP_SCNode, the Internet icon, and a 100% zoom level.

Signing into COGNOS

- ▶ IBM COGNOS Connection provides links to the modules available



Navigation and Directories

The screenshot displays the IBM Cognos Connection web interface. The browser address bar shows the URL https://cognos.nd.gov/cgi-bin/cognos.cgi?to_action=xt. The page title is "Public Folders - IBM Cognos Connection". The breadcrumb navigation shows "Public Folders > Peoplesoft > FIN". The main content area is a directory listing with columns for Name, Modified, and Actions. The directory listing includes folders like "PSFT Reporting Data Marts", "AP_Cube", "Dashboard", "AR_Cube", "REPORTS", "Agencies", "GL_Cube", and "Projects_Cube". A table of report entries is shown with columns for Name, Modified, and Actions. The table contains several entries with "More..." links. A status bar at the bottom indicates "Local intranet" and "100%".

Public Folders - IBM Cognos Connection - Windows Internet Explorer

https://cognos.nd.gov/cgi-bin/cognos.cgi?to_action=xt

File Edit View Favorites Tools Help

Public Folders - IBM Cognos Connection

IBM Cognos Connection

Mertz, Toby S. Log On

Public Folders My Folders

Public Folders > Peoplesoft > FIN

Name	Modified	Actions
PSFT Reporting Data Marts	March 12, 2010 1:18:12 PM	More...
AP_Cube	March 24, 2010 10:20:34 AM	More...
Dashboard	June 4, 2010 1:47:19 PM	More...
AR_Cube	April 7, 2010 9:53:10 AM	More...
REPORTS	March 31, 2010 10:05:53 PM	More...
Agencies	July 7, 2009 8:39:35 AM	More...
GL_Cube	May 11, 2010 5:07:56 PM	More...
Projects_Cube	March 24, 2010 1:14:50 PM	More...

Done Local intranet 100%

Your personal workspace

All reports available to more than one person exist here


Security

- ▶ Complete FIN/HCM Business Intelligence Security Access Request Form (SFN 59165)
- ▶ Select FIN and / or HCM cube(s)
- ▶ Select Reporting Capability
 - Consumer – only run reports
 - Author – develop Analysis Studio reports and run Report Studio reports
 - Professional Author – develop and run Report Studio Reports (ITD license fee applies)


FIN Cubes

Dimensions and Measures


Common Dimensions

- ▶ All Time – based on journal date. Levels include biennium, state fiscal year, quarters, month, and day. Includes separate reporting levels for federal fiscal year, quarters, month, and day.
 - ▶ All Funds – identified by business unit. Includes general, federal, and special.
 - ▶ Business Units – identified through PeopleSoft tree structure.
- 


Common Dimensions

- ▶ Accounts – includes asset, liability, equity, revenue, and expenses. Levels are by rollup account groups.
 - ▶ Operating unit – identified as Appropriated or Suspense
 - ▶ Class – identified as Appropriated or Suspense
- 


GL Cube Dimensions

- ▶ Source – based on journal header source. Examples include ONL, DEP, and AP.
 - ▶ Ledger – includes ACTUALS ledger for GL activity as well as ORG_BUD, APP_LN_BUD, and APPROP_BUD for budget activity.
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GL Cube Measures

- ▶ Actuals – represents the amount charges to a particular account.
 - ▶ Budget – represents amount budgeted for a specific budget ledger attribute.
 - ▶ Budget minus Actual – represents the calculation of Budget measure less Actuals measure.
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AP Cube Dimensions

- ▶ Vendor – identified by employee or supplier.
 - ▶ AP Business Unit – identified by business unit.
 - ▶ Origins – identified by business unit. Levels include IDB, PCD, PYR, and 001.
 - ▶ Payment Method – identified by ACH, CHK, or GE payment.
 - ▶ 1099 Reportable – identified by Reportable (Y) or Non-reportable (N)
- 


AP Cube Dimensions

- ▶ Close Status – identified as open or closed voucher.
- ▶ Payment Status – identified as paid or voided payment.


AP Cube Measures

- ▶ Voucher Amount – represents amount of voucher originating from AP module.
 - ▶ Onetime Amount – represents amount from one-time payments posted in GL.
 - ▶ Expense Amount – represents amount of travel reimbursement originating from Expense module.
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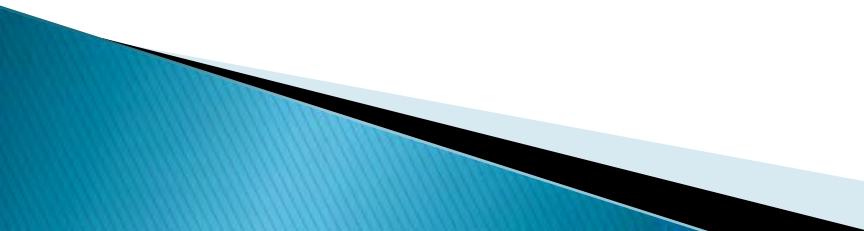
Project Cube Dimensions

- ▶ Projects – identified by business unit. Levels include Project ID and Activity ID.
 - ▶ Analysis Types – includes ACT, GLE, PAY, etc.
 - ▶ Project Status – identified as Active or Inactive
 - ▶ Activity Status – identified as Active or Inactive
 - ▶ Resource Categories, Resource Types, Project Types, and Activity Types – unique to Business Unit
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Project Cube Measures

- ▶ Resource Amount – represents revenue or expense amount.
 - ▶ Resource Quantity – represents unit of measure such as payroll hours or inventory units.
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AR Cube Dimensions

- ▶ Deposit ID, Entry Types, and Customers – unique to Business Unit
 - ▶ Posting Status – identified as Complete, Not Posted, or in Error
 - ▶ Item Status – identified as Open or Closed
 - ▶ GL Distribution Status – identified as Distributed, Generated, Ignored, or None
 - ▶ Aging Categories – used for aging schedule
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AR Cube Measures

- ▶ Customer Billing Amount
 - ▶ Item Balance Amount
 - ▶ Item Paid Amount
 - ▶ Item Adjusted Amount
 - ▶ Item Billed Amount
 - ▶ AR Trans Amount
 - ▶ Deposit Payment Amount
- 

Future Cube Development

- ▶ Payroll
 - Included with FIN cubes / security
 - ▶ Encumbrances
 - Included as part of GL Cube
 - ▶ Purchasing Card
 - ▶ Purchase Orders
 - ▶ Fixed Assets
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Demo

