



# How to Get Started with DB2 Web Query

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# Agenda

• Get to Version 2.2

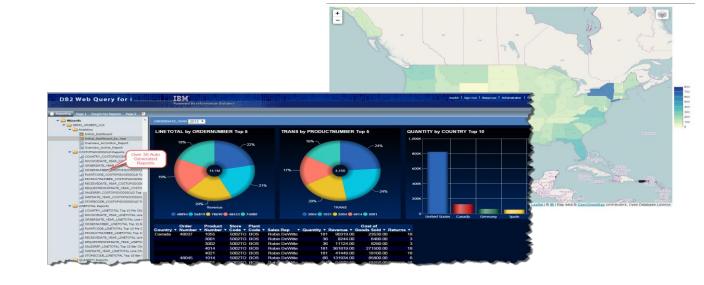
- Coming SOON: EASY Install Package
- Redbook Tutorials and the Sample Database
- Leverage Sample Reports and Templates
  - Wizard Analytics
  - Enhance Your Meta Data
    - For example, dealing with dates
- Query/400 Discovery and Analysis
  - Consolidation Example
- Additional Considerations
  - Out of the box Security Compliance Assessment and Reporting Solution

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# You Want to Get to Version 2.2

For summary and details of Version 2.2 delivered 4/15/2016, go to: ibm.co/db2wqwiki

- Wizard Analytics
- Geographic Maps and advanced charts (tag clouds, heat maps, etc.)
- New ETL tool for building data marts or data warehouses
- New dashboard options
- Improved mobile device support
- New security interface
- New data source support
- Re designed Developer Workbench



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# DB2 Web Query Packaging

### Product Set (5733-WQx)

- Express Edition (5733-WQe)
  - ✓ Entry level edition
  - ✓ Report development
  - ✓ Great for small, getting started environments
- Standard Edition (5733-WQs)
  - ✓ Adds report distribution, integration APIs
  - ✓ Adds Microsoft SQLServer Access
  - ✓ Virtually unlimited runtime users support
  - ✓ Optionally add JDEdwards Adapter
- ✓ Add User Licenses to either Edition
- Data Migrator (5733-WQm)
  - ✓ Extract, Transformation and Load Tool
  - Requires either Express or Standard Edition and at least 1 license of Developer Workbench

# Licensing

- Core Based for Express/Standard/DataMigrator
- LPAR based for User Licenses

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Do I Need Standard Edition?

Ans: YES, if any (or more) of the following apply?

- 1. You want automated report execution and distribution
- 2. You have over 25 Users that will need to run reports accessing live data
- 3. You need non DB2 Family database access
- 4. You want JDEdwards Adapter (pre-built meta data)
- 5. You want to embed reports into existing or new applications (e.g., a customer portal Java app)

### See FAQ document at ibm.biz/db2webqueryi





# You Need to Get Version 2.2

- If you haven't gotten DB2 Web Query installed yet.....note that:
- You probably own licenses of DB2 Web Query, but its likely they are at Version 1
  - If you want to know specifically what you might already own, send an email to <u>QU2@us.ibm.com</u> and ask that question and include your serial number(s)
- You can:
  - Have your Business Partner process an upgrade to Version 2.2
    - $\circ~$  No charge (sort of). SW Maintenance is added to get you the no charge upgrade
  - Download an installation DVD Image and install and run Version 2.2 for 70 days before it requires a license key
  - Wait a couple more weeks for our "easy install" package



- Today's Installation process can be a bit cumbersome
  - Get the DVD Image (if you can) off of ESS
  - Follow the Install Guide to restore license programs
  - Follow the Info APAR Guide to get all the pre-req and product Group PTFs up to minimum levels
  - Change the QWQADMIN password
  - Assign a user to be a DB2 Web Query Admin in Security Center
  - Create a Top Level Folder for use with self guided tutorials
  - Restore the sample database QWQCENT
  - Set up Meta Data over the Sample Database
  - Download the Redbook Tutorials and proceed with self guided report authoring education!



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    - Or you could bring my team in for a 3 day getting started service (costs often supplemented by a Power Systems "Services Voucher"
    - Or review the 3 getting started videos at ibm.co/db2wqwiki





• There MUST be a better way !





# What is this Easy Install Package with which you Speak of ?

- Tomorrow (or some time in the very near future)
  - A single downloadable image from box.com (drop box like site)
    - $\circ~$  Includes Version 2.2, ALL products with the latest Group PTF
    - o Sample IBM i Services Reports
    - Query/400 Discovery Tool and Sample Analysis Reports
    - $\circ~$  All of the Tutorial Reports already completed



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    - Sample IBM i Services Reports
    - Query/400 Discovery Tool and Sample Analysis Reports
    - All of the Tutorial Reports already completed
  - An installation process that does all of those things on the previous page for you !
    - Restores the licensed program products
      - note: you'll still need to ensure pre-reqs are installed and up to date but we'll tell you that as part of the installation process)
    - o Prompts you to change the QWQADMIN password and to add a non "Q" user as an administrator
    - Restores the IBM i Services objects (views, stored procedures, synonyms, reports)
    - Installs the Query/400 Discovery tool (you'll still need to RUN that tool to then analyze the results
    - Restores the latest sample database (QWQCENT) and synonyms required for YOU to run through the (Redbook) tutorials
    - Completed Tutorial Reports (note: Adding new ones for Version 2.2 too)!





# • THERE \*IS\* A BETTER WAY!



IBM

# USE Cases for the Easy Install Package

- You are licensed to Version 1, but want to start using Version 2.2 while your Business Partner process the appropriate upgrade to get Version 2.2 licensing
- You want to get the IBM i Services Sample Reports based on Version 2.2, and are not currently on Version 2.2
  - NOTE: If you are on Version 2.1, you will be prompted during install whether you want to upgrade (which overwrites) your Version 2.1 installation. If you've got Version 1 installed, no problem – this will install next to it
- You want to get the Query/400 Discovery Tool and Analysis Reports
- You want to try out DB2 Web Query for 70 day trial period
- You want to test Version 2.2 in another LPAR before upgrading your Production installation





# How Do I Get the Easy Install Package

- Our plan is to announce this via my twitter account (@mckdrmoly) and blog (db2webqueryi.blogspot.com)
- We are currently testing the process
- Expect this to be available by Year End
  - Although Version 2.2 tutorials are probably Q1 of 2017
- Feedback? Send email to QU2@us.ibm.com

# IPM Provides 14 Chapters of

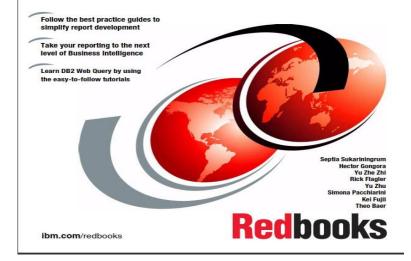
**Power Systems** 

- IBM Provides 14 Chapters of Tutorials in the current Version 2.1 level Redbook available from ibm.co/db2wqwiki
  - All about how to build reports

Sample Database and Tutorials

- New 2.2 Tutorials Coming Soon
- Based on a sample database that ships with the product
  - QWQCENT Library
- Sample Database Includes
  - Data in SQL Tables
  - IBM i Services objects
  - Query/400 Discovery tool objects
  - A Date Dimension Table (more on this later)
    - $\circ~$  And some stored procedures to load and maintain it

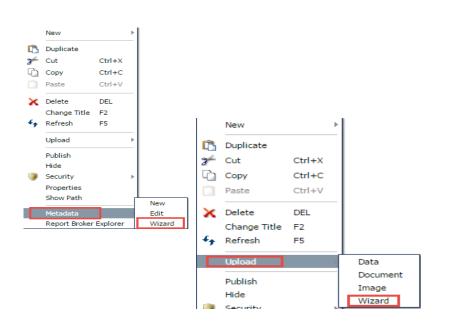






# Wizard Analytics

- Automates the building of meta data and xx number of standard reports
  - xx will vary based on how many measurements and dimensions you have
- Two wizards
  - Meta Data Wizard for DB2 tables/files
  - Upload Wizard for importing Excel spreadsheets
- The wizards make assumptions about meta data based on looking at the data, but gives you a chance to alter that before creating
- Video demonstrations at ibm.co/db2wqwiki
  - but let's take a look



- SSL Enablement
- SSO Kerberos
- Support KnowledgeBase
- System Variables
- Wizards
- Workload Capping
- Education
- Forum
- Getting Started Videos
- Training/Consulting Assistance
- Official Marketing home
- PTFs and On-going Service

# Meta Data Wizard

Power Systems

- Creates "Synonyms" and Sample Reports over DB2 for i Data
- The Wizard Steps you through the Process

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#### DB2 Web Query 7706M Server on DB2ICOE4.RCHLAND.IBM.COM - Google Chrome

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#### Configure connection

Adapters provide access to databases or other data sources. For example you could have adapters for MS SQL Server and for Delimited Flat Files.

Connections contain attributes to connect to a database instance or other data source. For example for a relational database a connection has the name of the adapter, the name of the database instance, a user id, password and other connection attributes.



# Select Database Objects to Create Synonyms Over

• Tables, Views, Stored Procedures, SQL Scripts, SQL Alias's, MQTs

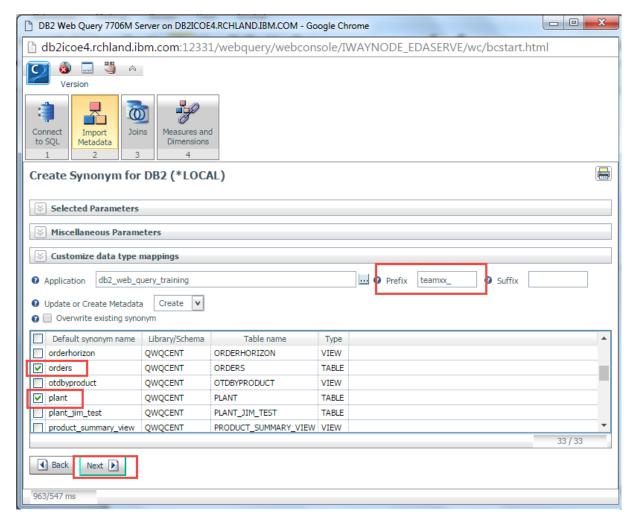
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# Select Tables/Files

Power Systems

 It's a good practice to give the synonym and folder name that gets created a prefix or suffix so you identify it as being created by the wizard





• But you need to tell it which files might be Primary or Secondary

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Select Fact Table												
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Select Synonyms to be added for the Star Schema

-At least one central table (Fact Table) TEAMXX\_ORDERS has been selected  $_{\mbox{\tiny See More}}$ 

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# DB2 Web Query and Dimensions

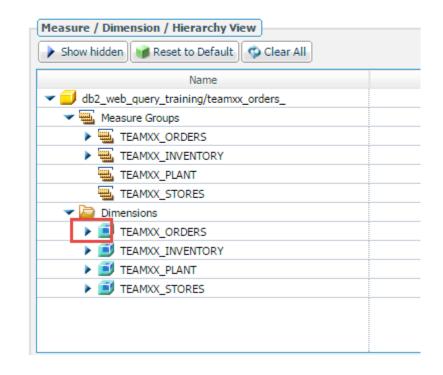
**Power Systems** 

- The Wizard will also try to determine if you have field relationships that might make up a dimension in a multi-dimensional model
  - Product -> Product Type -> Product Category
  - Year -> Quarter -> Month-> Week
  - Country -> Region -> State -> City
- But if not correct or maybe did NOT find one you want to create, the Wizard gives you the opportunity to edit



#### Categorize Fields into Measures, Dimensions and Hie

All columns are, by default, categorized into numerics (M Drag and drop columns to change defaults and use right See More







# Sample Date Dimension Created Automatically

• Supports Auto Drill Down and Parameter Chaining in Reports

Measure / Dimension / Hierarchy View												
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📇 Plant Address											
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Power Systems



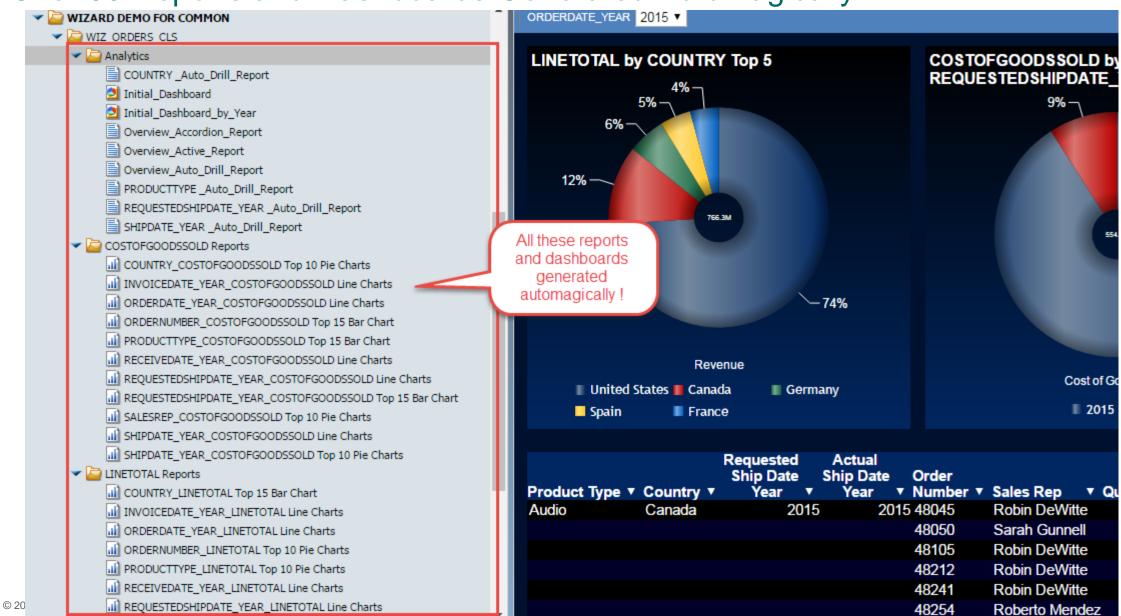
# Synonyms Created – its Time to Auto Generate the Reports

Click OK to Start Generator

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IBM

# Over 30 Reports and Dashboards Generated Automagically





# Now What?

- Might use as is
- Could use as samples or templates and edit
  - Change Stylesheet, add a prompt, schedule it to send via email, and much much more
- The Wizard creates sample:
  - Compound Documents (a form of dashboard)
  - Auto Drill Down Reports
  - Active Reports
  - Accordion Reports
  - Top xx Reports
  - Bar, Line, and Pie Charts
- Creates a sub folder for every measurement (like Revenue, COGS) it finds in your data
- Uses a date prompt in dashboards if found





# And This Took Less than 15 Minutes to Generate over 30 Reports

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ict Type ▼ Country ▼ Year ▼ Yea Canada 2015	ar • Number 2015 48045	r ▼ Sales Rep ▼ Qua Robin DeWitte	antity • Revenue • G 66 131934.00	oods Sold ▼ Returns 85800.00	6						Show Records				_		
	48050	Sarah Gunnell	384 144516.00	41080.00	37				48681	Roberto Mend	Comments	40.00	3000.00	1	<b>a</b>		
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	48254	Roberto Mendez	180 83520.00	59400.00	18				48888	Robin DeWi		24.00	44000.00	10		15	
	48319 48396	Robin DeWitte	211 63089.00 157 62643.00		21				48892	Roberto Mer				LINETO	TAL by COUNTRY Top		
	48396	Roger Iddles	157 62643.00	51810.00 Reque	10						1.4B						
					Date Ship Date				Cost of								
	E F		Count	trv 🔳 Ye	ear 🔳 Year	e Quantity	e Revenue	e Good	ds Sold								
	Audio		Canada		2015 2015	46,442	21602738.00	12	680000.00	4.49							
					2016	546	447964.00		287710.00	5	1.2B						
					2016 2015	89	34311.00		11110.00								
					2016	47,022	20317108.00		442660.00	4,52							
					<u>2017</u>	1,060	633760.00		400950.00	10							
					<u>2017</u> <u>2017</u>	2,792	861448.00		422360.00	26	1B						
			France		<u>2015</u> <u>2015</u>	16,956	7383544.00		293980.00	1,64							
					2016	553	190427.00		96890.00	5							
					2016 2016	19,145	9076875.00	5	387320.00	1,85							
					2017 2017 2016	130 429	25870.00 100371.00		9100.00 60500.00	1	0.8B						
					2017 2016 2017	429	40745.00		23650.00	4	<u>e</u>						
			Germany		2015 2015	22,328	9961572.00		583510.00	2.18	/eur						
			Sermany		<u>2015</u> 2016	330	153830.00		40540.00	2,10	Se la						
					2016 2016	22,037	9589993.00		325760.00	2,12	0.6B						
					2017	491	209989.00		150970.00	4							
					2017 2016	172	343828.00		223600.00	1							
					<u>2017</u>	1,003	591227.00		320300.00	ç							
			<u>Spain</u>		<u>2015</u> <u>2015</u>	17,695	7419035.00		160730.00	1,72	0.4B						
					<u>2016</u>	126	125754.00		76920.00	1							
					<u>2016</u> <u>2015</u>	12	35988.00		24000.00								
					2016	16,008	8010772.00	4	696730.00	1,53							
					2017	344	154456.00		61920.00	3	0.2B						
					2017 2016 2017	26 1,901	6864.00 705289.00		2210.00 426080.00	4.0							
			United States		<u>2017</u> 2015 <u>2015</u>	272,068	123055732.00		352800.00	26,79							
			Officed States		<u>2015</u> <u>2015</u> <u>2016</u>	5,009	123055732.00		352800.00 795500.00	20,75							
					<u>2016</u> <u>2015</u>	2,361	1312159.00		805340.00	22	0						
					- 2015	▲323.947	143275423.09		565410.00	34.70	l	United States	Canad	a	Germany Country	Spain	



# A Brief Segway to the Power of Meta Data Using Date Processing

- One of the most common reporting issues is dealing with dates
- Dates can be stored in various formats in the underlying database
  - Often Packed 8 Decimal (?)
- Dates should be displayed in various formats
- Dates are often rolled up to create buckets based on week, month, quarter, year, etc.
- Dates are often used for prompts in reports (Start\_date, End\_date)
- Date calculations based on today's date are often required (today 30)
- Period to date calculations and comparisons to that same time frame in a previous period (QTD compared to QTD Last Year)



# Advanced Date Processing with Date Dimension Table

- Sample Date Dimension table included in sample database (QWQCENT) that comes with DB2 Web Query
  - Table Name: DATE\_CONV

- Table can be joined with others within synonym (meta data) to provide advanced date processing
  - What are the profit margins on days before and after holidays?
  - How many bags of corn chips are sold the week before the Super Bowl?
  - What is the rate of product returns on the day after Christmas as compared to any other day of the year?
  - Are more galoshes sold in the spring or the fall?
  - How many boxes of diapers are sold on days when there is a full moon?

#### **Power Systems**



### **Date Dimension Table**

ORDER

1715810 H4541

1563685 R1948

7195900 Q7881

8854635 \$1511

6694902 X8863

8054679 F4327

527879 C3233

4011038 G1496

5417918 J3825

9456994 N2796

CUST

ORDDAT

2152005

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ORDSTS

1

2

2

1

2

2

2

1

**ORDDTL** legacy file

#### Date dimension table

#### 3526155 07882 3012005 8062005 UPS 194660.67 Join (RI constraints, SQL view, synonym join, report join)

SHPVIA

9112005 Pnuematic Tube

SHPDAT

6302005 UPS

8042005 Mule Train

5022005 Pick Up

9102005 Train

7192005 Camel

5022005 US Mail

10162005 Train

10022005 FedEx

7012005 Train

Date	MDYY	Year	Month	Day	Month <u>Name</u>	Day of <u>Week</u>	Day Of <u>Year</u>	Day <u>Name</u>	Weekend <u>Flag</u>	Season	Fiscal Year	Fiscal <u>Qtr</u>	Week Starting <u>Date</u>	Same Day <u>Last Year</u>
2005/02/15	2152005	2005	2	15	Pebruary	2	46	Tuesday	N	Winter	2005	2	2005/02/12	2004/02/17
2005/02/16	2162005	2005	2	16	February	3	47	Wednesday	N	Winter	2005	2	2005/02/12	2004/02/18
2005/02/17	2172005	2005	2	17	February	4	48	Thursday	N	Winter	2005	2	2005/02/12	2004/02/19
2005/02/18	2182005	2005	2	18	February	5	49	Friday	N	Winter	2005	2	2005/02/12	2004/02/20
2005/02/19	2192005	2005	2	19	February	6	50	Saturday	Y	Winter	2005	2	2005/02/19	2004/02/21
2005/02/20	2202005	2005	2	20	February	7	51	Sunday	Y	Winter	2005	2	2005/02/19	2004/02/22
2005/02/21	2212005	2005	2	21	February	1	52	Monday	N	Winter	2005	2	2005/02/19	2004/02/23
2005/02/22	2222005	2005	2	22	February	2	53	Tuesday	N	Winter	2005	2	2005/02/19	2004/02/24
2005/02/23	2232005	2005	2	23	February	3	54	Wednesday	N	Winter	2005	2	2005/02/19	2004/02/25
2005/02/24	2242005	2005	2	24	February	4	55	Thursday	N	Winter	2005	2	2005/02/19	2004/02/26
2005/02/25	2252005	2005	2	25	February	5	56	Friday	N	Winter	2005	2	2005/02/19	2004/02/27
2005/02/26	2262005	2005	2	26	February	6	57	Saturday	Y	Winter	2005	2	2005/02/26	2004/02/28
2005/02/27	2272005	2005	2	27	February	7	58	Sunday	Y	Winter	2005	2	2005/02/26	2004/02/29
2005/02/28	2282005	2005	2	28	February	1	59	Monday	N	Winter	2005	2	2005/02/26	2004/03/01

# Joining the Date Dimension Table in Meta Data (the Synonym)

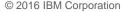
• Edit the ORDERS Synonym

Power Systems

• Insert JOIN condition to the our date dimension table

Properties Properties	Field Segme View View		Business View	DBA View	Toggle Full / Grid View Tree View	Insert	Sample Data	Data Profiling Report								
	_mack/cen_orders	5				Property Vie	ew 🛾 🐻 Te	ext View	Acces	oug_mack/cen CEN_ORDER	RS .	<b>^</b>	Insert a r	eference		
:	Order,Nur	Properties			All	Fields belon	g to cross r	referenced	segments.	📄 Product, 📄 Order,Da			Applicati			
6	Product,N 🛃	Insert	•	<b>š</b>	Reference to Existir	ng Synonym			the reference		ed,Ship Date		1			
5	Order,Dat	Edit Child/Pare	ent Links		Reference to Existir	ng Synonym	with Snowf	flake	Format	📄 Actual,S			Select	То		Real Table Name
	· · · ·	Data Profiling			Segment Manually				A5	🔄 Invoice,				📩 cen_date_conv		QWQCENT/DATE_CONV
	<b>.</b>		P					[	A4	E Receive,				den_inventory		QWQCENT/INVENTORY
6	Receive,D	Sample Data			Field				YYMD	🔄 Store,Co				Cen_order_header_view	1	QWQCENT/ORDER_HEADER_
	-	Delete		<u>×</u> 1	Define				YYMD	📄 Plant,Co				🛃 cen_orderhorizon		QWQCENT/ORDERHORIZON
	Plant,Cod			<u>7</u> I	Filter				YYMD	🔄 Sales Re				🤣 cen_orders		QWQCENT/ORDERS
	Sales Rep	Edit All Proper	ties		Compute				YYMD	🔄 Quantity				🛃 cen_otdbyproduct		QWQCENT/OTDBYPRODUCT
	Quantity								YYMD	Revenue				ᡖ cen_plant		QWQCENT/PLANT
	Revenue				Variable				A6	Cost of,				🛃 cen_stores		QWQCENT/STORES
	Cost of,Goods S	Sold		_	Subquery				A3	Returns				🛃 date_conv		QWQCENT/DATE_CONV
	Returns				Index				A50	🖃 Warrant				ᡖ delete_inventory		QWQCENT/INVENTORY
	Warranty,Exper	nses	-			Quantity			I11	📄 Shipping 💒 Order,Da				ᡖ delete_orders		QWQCENT/ORDERS
	Shipping,Cost								P22.2	fr order, De				🤣 delete_orders_cls		QWQCENT/ORDERS





# Joining the Date Dimension Table in Meta Data (the Synonym)

- Edit the JOIN condition if DB2 Web Query didn't guess right
- SAVE and you're done !

Properties	Field View	Segment View	Dimension View	Business View	DBA View	Toggle Full / Grid View	Insert	Sample Data	Data Profiling	Impact Analysis
Properties			View			Tree View	Insert		Reports	
<ul> <li>✓ <sup>1</sup>⁄<sub>2</sub>⁄<sub>2</sub>⁄<sub>2</sub> doug</li> <li>✓ <sup>1</sup>⁄<sub>2</sub>⁄<sub>2</sub>⁄<sub>2</sub></li> </ul>	CEN_PI	RS IVENTORY LANT	×		SEGMEN Join PARENT Relation Type Condition Miscel SEGSUF DESCRI	View Test	t View		View	Fields D

🗃 Data	🔌 Live Preview (s	600 Records)	
earch fields			
DC_MDYY_ZONED	Country	Product Type	Revenue
DC_YYMD_DEC     DC_YYMD_ZONED     DC_MDY_DEC     DC_MDY_ZONED     DC_YMD_DEC     DC_YMD_DEC     DC_YMD_ZONED     DC_YEAR     DC_DOW	Canada France	available	ributes now e to reports
		Camcorders Cameras	\$19,806,592.00 \$8,138,513.00
		Office Video	\$8,138,513.00 \$1,338,048.00 \$19,381.067.00
C_WOY_ISO	Germany	Audio Camcorders	\$20,850,439.00 \$24,332,946.00
Filter		Cameras Office Video	\$9,601,694.00 \$1,841,043.00 \$29,582,533.00
	Spain	Audio Camcorders Cameras	\$16,458,158.00 \$21,066,201.00 \$6,149,115.00
Query Report (cen_orders)		Office Video	\$1,670,051.00 \$24,134,124.00
E Sum	United States	Audio Camcorders Cameras	\$284,659,563.00 \$325,874,380.00 \$139,270,463.00
By     Country     Product Type     Across		Office Video	\$22,538,102.00 \$386,699,009.00
HIII ACTOSS			





# Using the Date Dimension Table

- Benefits:
  - Date Attributes Available to the Report Author
    - They don't need to know (and they don't care) that the date is stored actually as Packed 8 Decimal
  - Data processing is done by DB2 rather than in the reporting server
    - Way more efficient
  - Reporting challenges like using dates as prompts, or rolling date reports become much easier to write
    - Example: Go back to the 1<sup>st</sup> day of the current month and show me all the revenue up to today
- Considerations
  - Date Dimension Table needs to be updated nightly
    - $\circ~$  Example: Current month change flag changes on the first day of each month
    - $_{\odot}~$  Sample Stored Procedures to LOAD and UPDATE included in QWQCENT Sample database

# Query/400 Discovery

Power Systems

- The Goal
  - Get your arms around Query/400 definition information on your system
    - o Query/400 definitions proliferate over time. Usually without any knowledge of this happening
      - Recent example: "we've got 37,000 queries? I had no idea...."
    - Many Query/400 definitions are redundant
      - Copy and Pasted; Created again when one that could have satisfied the request already existed
  - Clean up unnecessary definitions
    - $\circ~$  Reduce impact of changes to underlying files

### – Modernize

- $\circ$  80/20 rule identify the 20% that should be modernized to:
  - Improve Performance (SQE; Tuned queries through guided ad-hoc self service reporting)
  - Create Direct to consumer data flows; Automate report execution and distribution
    - » Why create extracts to get data into another visualization or analysis (Excel) tool?
    - » Empower end users

# Query/400 Discovery and Analysis Prototype

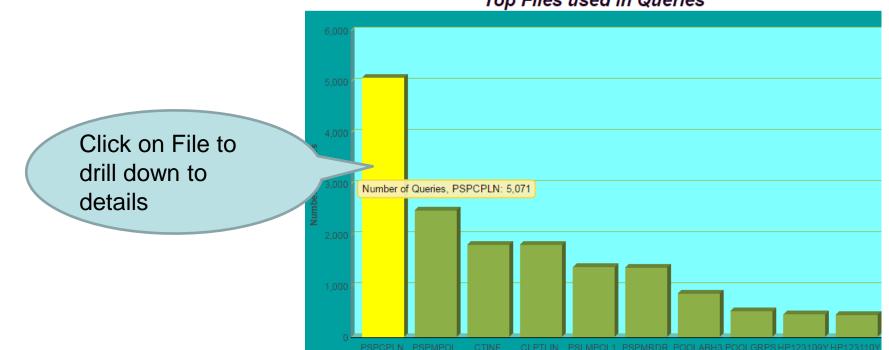
Data Sources

- IBM Built Discovery tool generates information from your Query/400 definitions
  - No charge tool will be shipped in "Easy Install" Package coming soon
  - $\circ~$  Generates output files that would then have to be analyzed, so....
- Analysis tools built to provide information about the data in the output files
  - A set of DB2 Web Query reports included in the "Easy Install" Package
  - Built over the output tables from the Discovery Tool



# Query/400 Discovery

• Files used in most queries



Top Files used in Queries



# Query/400 Discovery

- Analysis Algorithm puts queries into "buckets"
  - DELETE

- CONSOLIDATE
- MERGE INTO FINAL QUERY (chained query could be more efficient)
- CONVERT (unique query where you can convert to native DB2 Web Query report)

			· ·	Quer	ery Recommendations and Details					. ,		
	▼ QRY_OUTPUT_T	YPE 🔻 Does Data Summ		ON_DATE V QRY_CREATOR		N 🔻 Number of Queries 🔻 Join Q	ueries 🔻 Number					
AHAJOVSK	Printer	Yes		7:37:35.000000 AHAJOVSK	2016/01/31 17:02:00.700000 2016/01/31 17:02:00.700000 DELETE	1	1					
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				0:29:44.000000 AHAJOVSK	2016/01/31 17:02:00.688000 2016/01/31 17:02:00.688000 CONSOLIDATE	1	0		DELETE			
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				5:26:26.000000 AHAJOVSK	2016/01/31 17:02:00.684000 2016/01/31 17:02:00.684000 CONSOLIDATE	1	0					
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				4:02:55.000000 DLP0	2016/01/24 12:12:32.598000 2016/01/24 12:12:32.598000 MERGE INTO FINAL QU		1					
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	Printer					Query Re	commendat	ions and Details				
	Display 🕕	uery Library 🔻	QRY OUTPUT	TYPE 🔻 Does Data	ta Summarization 🔻 QRY_CREATION_DATE 🔻 (	RY CREATOR V QRY	CHANGE DATE	▼ QRY LAST USED	▼ QUERY CONSIDERATION	Number of Queries	Join Queries	Number of
JLIN	Database file	.IN	Printer	Yes	2011/10/13 09:56:25.000000	LIN 201	6/01/27 20:11:05.7	34000 2016/01/27 20:11:05	.734000 CONVERT		1	1
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					2015/04/07 10:11:13.000000			2/10 12:42:00	0.074000 CONVERT		1	1
					2015/09/24 11:34:06.000000			2016/03/10 12:41:59			1	1
					2013/07/24 11:34:06:000000	INUDERSU		000 2016/03/10 12:41:35			1	1





### "Boiling It Down" - Discover, Analyze, Reduce, and Convert

7 Query/400 objects

	<b>R</b> Century Electronics			Page <u>1</u> of 3 ►   ► ►			Cost of	
				Product Category   Receivers	Product Type V C	_	Soods Sold \$210,600.00	
		Canada		P CD Players and Recorders		\$208,494.00 \$176,881.00	\$210,600.00	
viscover	<ul> <li>[AII]</li> </ul>			CD Players and Recorders		\$35,422.00	\$124,600.00	
SCOVEL	Canada			CD Players and Recorders		\$194,322.00	\$361,400.00	
1/70	<ul> <li>France</li> </ul>		CD-500D1	CD Players and Recorders	Audio	\$946,842.00	\$2,379,000.00	\$3,325,842
alyze	© Germany		CDH-200	CD Players and Recorders	Audio	\$277,207.00	\$835,800.00	\$1,113,007.
duaa	<ul> <li>Spain</li> </ul>		HT-1000S	Audio Systems	Audio	\$194,718.00	\$586,500.00	\$781,218.
educe	<ul> <li>United States</li> </ul>		HT-2000S	Audio Systems	Audio	\$3,410,421.00	\$6,342,700.00	\$9,753,121.
very count				Audio Systems	Audio	\$1,108,890.00	\$2,220,000.00	
onvert				Receivers	Audio	\$105,492.00	\$106,200.00	
					Audio	\$140,805.00	\$189,000.00	
				Receivers Receivers	Audio	\$557,409.00 \$369,075.00	\$1,512,350.00 \$462,500.00	
				MP3	Audio	\$210,657.00	\$244,950.00	
			MP-100G		Audio	\$58,206.00	\$186,900.00	
			MP-20	MP3	Audio	\$960,204.00	\$834,960.00	
			MP-20G	MP3	Audio	\$360,082.00	\$1,139,500.00	\$1,499,582.
			MP-20H	MP3	Audio	\$370,329.00	\$416,100.00	\$786,429.
			MS-H100	Audio Systems	Audio	\$239,691.00	\$637,710.00	\$877,401.
				Audio Systems	Audio	\$77,814.00	\$314,400.00	
				Amplifiers/PreAmps/Tuner		\$134,757.00	\$644,490.00	
			PA-100	Amplifiers/PreAmps/Tuner		\$222,180.00	\$579,600.00	
			PA-200XL	Amplifiers/PreAmps/Tuner	s Audio	\$140,620.00	\$391,600.00	\$532,220.

run from a mobile device)!



#### Centralized reporting of IBM i System and Security Components

# **Compliance Assessment and Reporting Tool – Enterprise Edition**

- An automated collection, analysis, and reporting tool on over 1000 system and security related risks, information, statistics and demographics. All in one location and easy to use!
- Covers:
  - Password management
  - Profile administration
  - Special authorities
  - Group inheritance
  - Network configuration
  - NetServer attributes
  - Operational security
  - PTF currency
  - Event monitoring
  - Customer define items
  - Security risks and more
- Daily compliance dashboard reports at LPAR, system or enterprise level © 2016 IBM Corporation

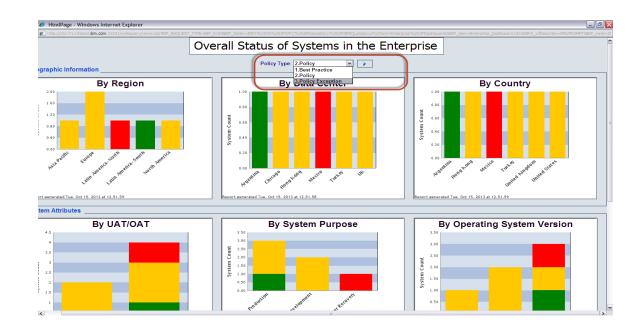
- Enables compliance officer to demonstrate adherence to pre-defined or customer-defined security polices.
- System and Security reporting made easy!



# High Level Dashboards

- Toggle through Different Views
  - IBM's recommended best practice
  - Your Policy

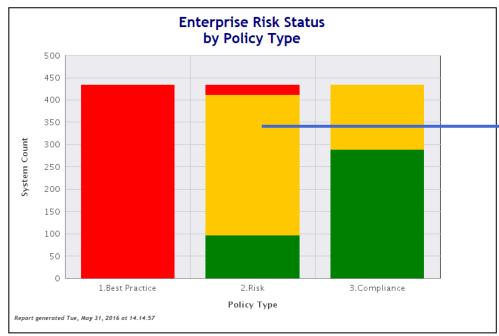
- o Might be different than the IBM recommendations
- Policy Exceptions
  - Exceptions might be something that is a defined temporary exception or a system that might have different policies
  - Examples might be a system that is being brought up, or an H/A or DEV system
- Traffic Lighting for easy visualizations of where you are in or out of compliance
  - o Drill downs to view details
- Views by Region, Country, OS Version, System purpose (prod, dev, ha/dr), etc.





IBM

# "I just want to arrive in the morning, get a cup of coffee, and have a view of what systems/LPARs are in compliance and which are not."



#### http://ibm.biz/IBMiSecurity

					Risk	Status S	ummary	/				
						Policy Type: 2	2.Risk					
						ta Center: Af		base				
Data					Backup Recover <b>y</b>		Security Risk		Overall Risk Rating	High Risk Rating	Medium Risk Rating	Low Risk Rating
Center	Region	▼ 1	Version 🔻	Purpose 🛛 🔻	Implementation 🔻	Owner V	Owner 🔻	Name 🔻	Grade 🔹	′Grade 🛛 🔻	Grade 🔻	Grade 🔻
Afternoo	on Database Databas	e Systems	V7R1M0	1.Production	Yes	Argentina	Argentina	SYSTE M329	3.Red	3.Red	2.Amber	1.Green
Afternoo	on Database Databas	e Systems	V7R1M0	2.Development	No	Chicago	Chicago	SYSTE A249	3.Red	3.Red	2.Amber	1.Green
Afternoo	n Database Databas	e Systems	V7R1M0	2.Development	No	Chicago	Chicago	SYSTE A255	3.Red	3.Red	2.Amber	1.Green
Afternoo	n Database Databas	e Systems	V7R1M0	2.Development	No	Hong Kong	Hong Kong	SYSTE 1339	3.Red	3.Red	2.Amber	1.Green
Afternoo	n Database Databas	e Systems	V7R1M0	2.Development	Yes	UK	UK	SYSTE A366	3.Red	3.Red	2.Amber	1.Green
Afternoo	n Database Databas	e Systems	V7R1M0	3.Contingency	No	Chicago	Chicago	SYSTE A335	3.Red	3.Red	2.Amber	1.Green
Afternoo	n Database Databas	e Systems	V7R1M0	1.Production	No	Latin America-South	Latin America-South	SYSTE A211	2.Amber	2.Amber	1.Green	1.Green
Afternoo	on Database Databas	e Systems	V7R1M0	1.Production	No	UK	UK	SYSTE 1400	2.Amber	2.Amber	1.Green	1.Green

#### Risk Status Details for System: SYSTEM329 - Graded Items

Policy Type: 2.Risk Region: Database Systems Data Center: Afternoon Database

		Data	Center. Arternoon Date	abase			
ltem					ltem	Risk	Rating
Key 🔻	Category 🔻	Subcategory V	ltem 🔰	Value 1	🗸 Grade 🔻	Rating 🔻	🛛 Priority 🔻
LAIB0180	Library Authorities	*IBM Libraries	*PUBLIC = *CHANGE	3	3.Red	1.High	99
LAUS0220	Library Authorities	USER Libraries	*PUBLIC = *ALL	103	3.Red	1.High	99
LAUS0240	Library Authorities	USER Libraries	*PUBLIC = *CHANGE	2942	3.Red	1.High	99
LAUS0502	Library Authorities	USER Libraries	QSECOFR Adoption, Total PGMS	114	3.Red	1.High	99
LAUS0503	Library Authorities	USER Libraries	QSECOFR Adoption, *PUB=*ALL	34	3.Red	1.High	99
LAUS0504	Library Authorities	USER Libraries	QSECOFR Adoption, *PUB=*CHG	47	3.Red	1.High	99
LAUS0601	Library Authorities	USER Libraries	OTHR *ALLOBJ ADPT, Total PGMS	10812	3.Red	1.High	99
LAUS0602	Library Authorities	USER Libraries	OTHR *ALLOBJ ADPT, *PUB=*ALL	12	3.Red	1.High	99
MSST0001	Miscellaneous	Service Tools	Allow Change to System Values	Yes	3.Red	1.High	99
NCDDM001	Network Configuration	TCP/IP Attributes	DDM PW Required (CHGDDMTCPA)	*VLDONLY	3.Red	1.High	99
NSIND001	NetServer Information	NetServer Data	ROOT (/) is Shared	Yes	3.Red	1.High	99
NSIND002	NetServer Information	NetServer Data	ROOT (/) Permissions	*RW	3.Red	1.High	99

# DB2 for i Lab Services Offerings

- DB2 Web Query Getting Started Service ٠
  - 3 Day skills transfer and workshops to build prototype
  - Goes beyond tutorials with Best Practices and hand-holding
  - Best way to ensure successful implementation
  - Should include with EVERY DB2 Web Query proposal (proposal insert available)
- Query/400 Modernization

**Power Systems** 

- Discovery, Analysis, and Conversion
- Addresses the question of how a customer can move from 100's or 1000's of Query/400 definitions to modernized environment that leverages DB2 query optimization!
- Out with the (very) OLD, in with the NEW improve performance, productivity, perception of IBM i, and move into "analytics"
- Analytics Discovery Workshops
  - A facilitated session to uncover requirements, current pain points, skills gaps and strategy
  - Illuminate capabilities of DB2 for i and best practices for deploying analytics with IBM i \_
- DB2 and SQL Performance Assessments
  - Really critical assessment that should be conducted regularly by the customer —
    - But lack of DBAs in our i community means no one is paying attention to the database
  - Assessment collects database (and system) performance data \_
  - Recommendations made in report



#### **USE A VOUCHER!**



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# To Learn More

- DB2 Web Query for i Website
  - Ibm.biz/db2webqueryi
- DB2 Web Query for i Wiki
  - Ibm.co/db2wqwiki
- DB2 Web Query Getting Started Enablement:
  - https://ibm.biz/db2wqconsulting
- Demonstrations:
  - Wizard Analytics: <u>https://ibm.biz/DB2WQWizards</u>
  - End User Demos: https://ibm.biz/db2wqreportingdemos
  - Getting Started Videos: <u>https://ibm.biz/db2wqgettingstarteddemos</u>
- Follow DB2 Web Query guy Doug Mack on twitter at @mckdrmoly or check out his blog at <u>http://db2webqueryi.blogspot.com/</u> for all the latest

