Db2 Web Query for i:

Things You Didn’t Know You Could Do with Db2 Web Query

May 2021

Doug Mack

Db2 Web Query team:
qu2@us.ibm.com

http://ibm.biz/db2webqueryi

IBM i Anywhere
IBM i Everywhere

IBM

Who Uses Db2 Web Query?

Executives - Dashboards to monitor Key Performance Indicators

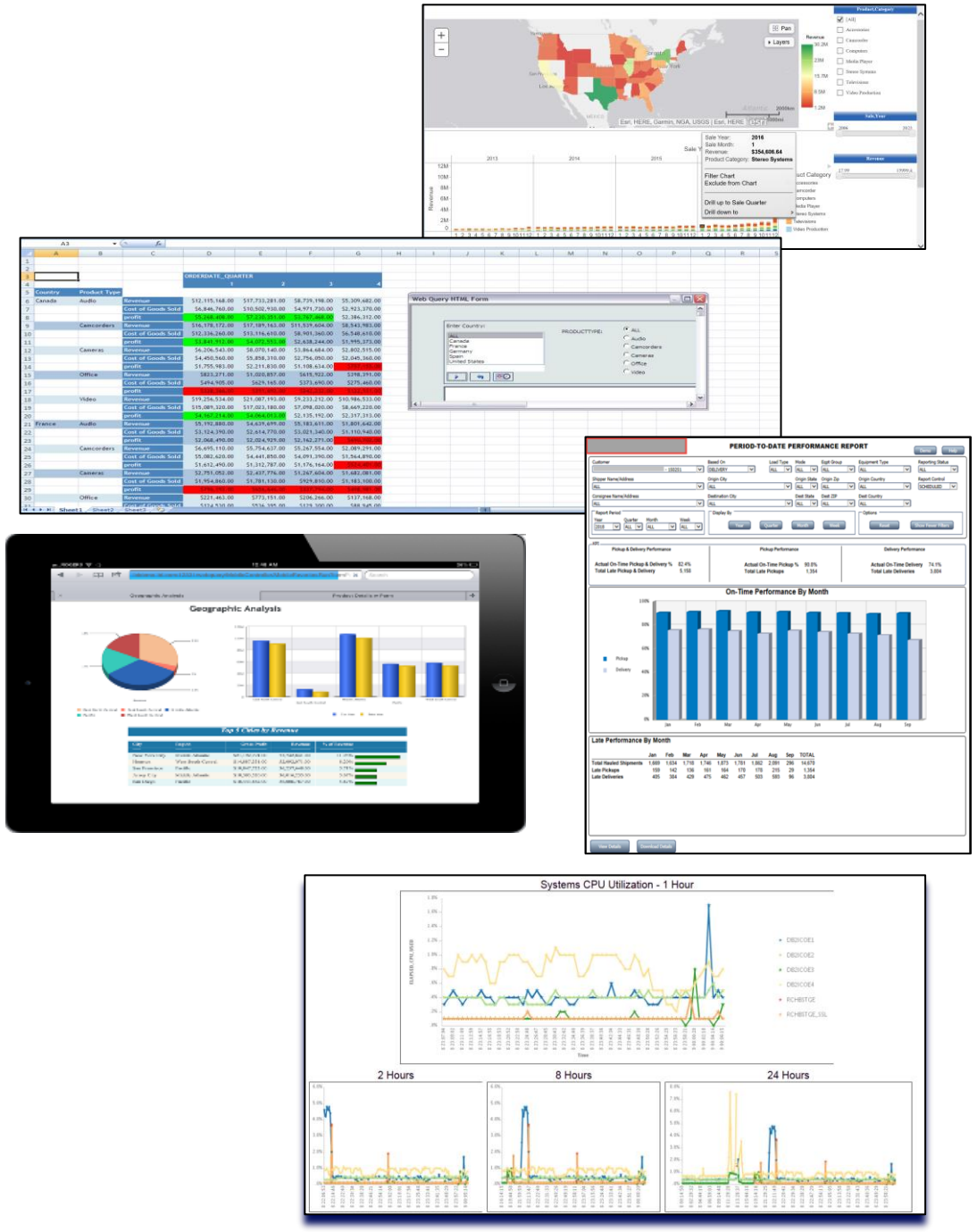
Finance Dept – they love their spreadsheets!

Business Analysts and Data Scientists – Cobble together data and analyze on premise or in the cloud

Users on the Go - Mobile Device Support

Applications - URL API to Embed Reports in Apps

And YES, **IBM i Admins and Developers** – Monitor System and Security Metrics



The Difference Between a Query Tool and BI

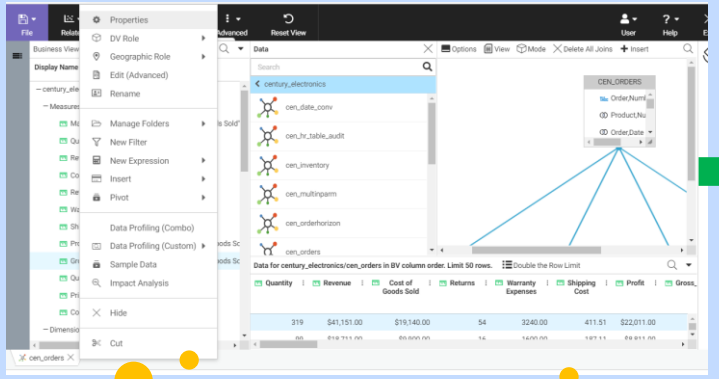
IBM i Anywhere
IBM i Everywhere

Data Sources

- Db2 for i Files/Tables
- Query/400 Definitions
- Log Files (Journal Receivers)
  - Mostly for ETL purposes
- Db2 or RPG Stored Procedures
- Db2 SQL Views
- SQL Statements
  - EZ-Report makes this ver… EASY
- Non Db2 Databases
  - Postgres, MySQL, S… Oracle, et.al.
- IBM i Services

Report Writer Productivity

Simplified Data Perspective
"Meta data"



SYNONYMS

Single Version of the Truth !!!

AND ALL ON IBM i

Agenda

2020 iSight

- PART 1: What's New
  - New Offerings
  - New Version 2.3.0
    - Designer
    - Insights

- PART 2: Extending Db2 for i "IBM i Services"
  - Leverage the POWER of SQL as a data source, and EZ-Report to auto generate synonym and report

New Db2 Web Query Editions

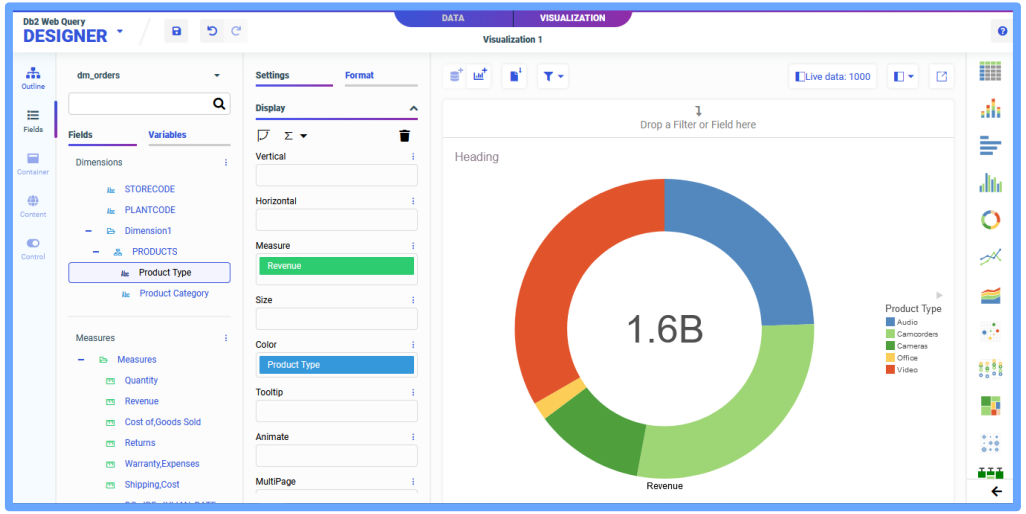
2020 iSight

Db2 Web Query **Scheduler Edition 5733-WQB**

– **Express + Job Scheduling**

– Unlimited report “consumers”

- Distributed via email, FTP, or placed on network drive
- Users can work with data offline
- Support Mobile or At Home Workers



Db2 Web Query **RunTime User Edition 5733-WQR**

– **Express + RunTime Licensing**

– Users can run interactive reports with live data

OVER 50% Savings for 20 user system

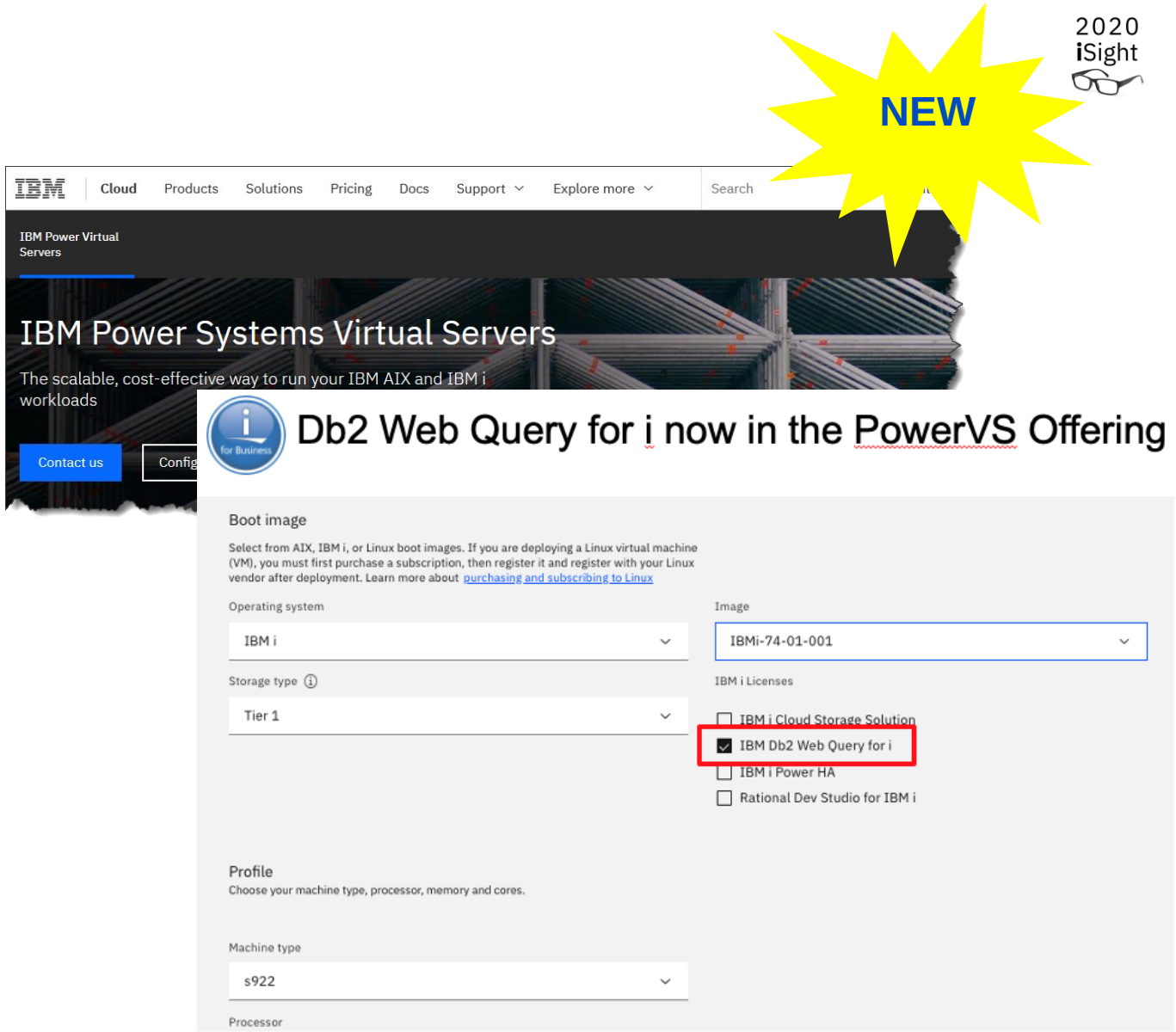
OVER 75% Savings for 50 user system

ibm.biz/db2wq-blog-neweditions

Savings compares adding user licenses to Express vs. Upgrading to new Edition
Calculated using U.S. List Prices and includes SW Maintenance
Assumes you already own Express Edition + 2 user licenses

Db2 Web Query in the IBM Cloud

- Announced in October, Available now
  - Db2 Web Query Added to the IBM Power Virtual Server Cloud Offering
  - Usage is turned on and off with selection of the offering
  - Licensed to **Standard Edition with unlimited users**
    - Job scheduling and distribution
    - Embed reports in your own applications via REST Web Services or URL construction API
    - Access non Db2 databases

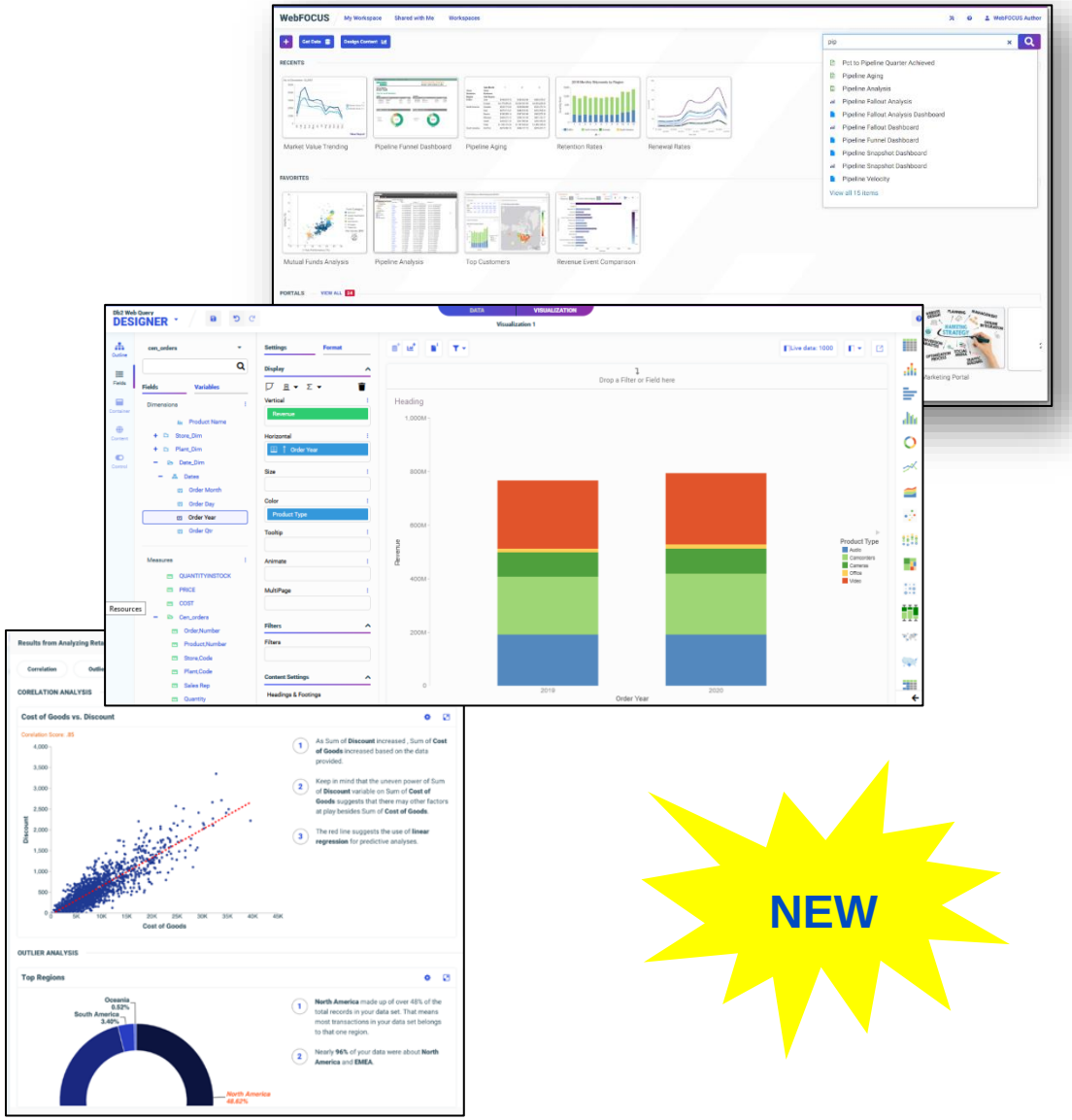


https://www.ibm.com/cloud/power-virtual-server

Db2 Web Query Version 2.3.0*

2020 iSight

- **Significant** upgrades in ease of use and navigation
- **New Home Page** simplifies organization of content
  - Complements legacy BI Portal
- Powerful **New Designer** for creating content
  - Complements legacy InfoAssist authoring tool
- Data Preparation facilities to **“work with data”** for building of extracts or “wrangling” data to use for visualizations
- **New “Insights” trial** brings packaged AI/ML models to Web Query to auto generate additional data relationship charts and information



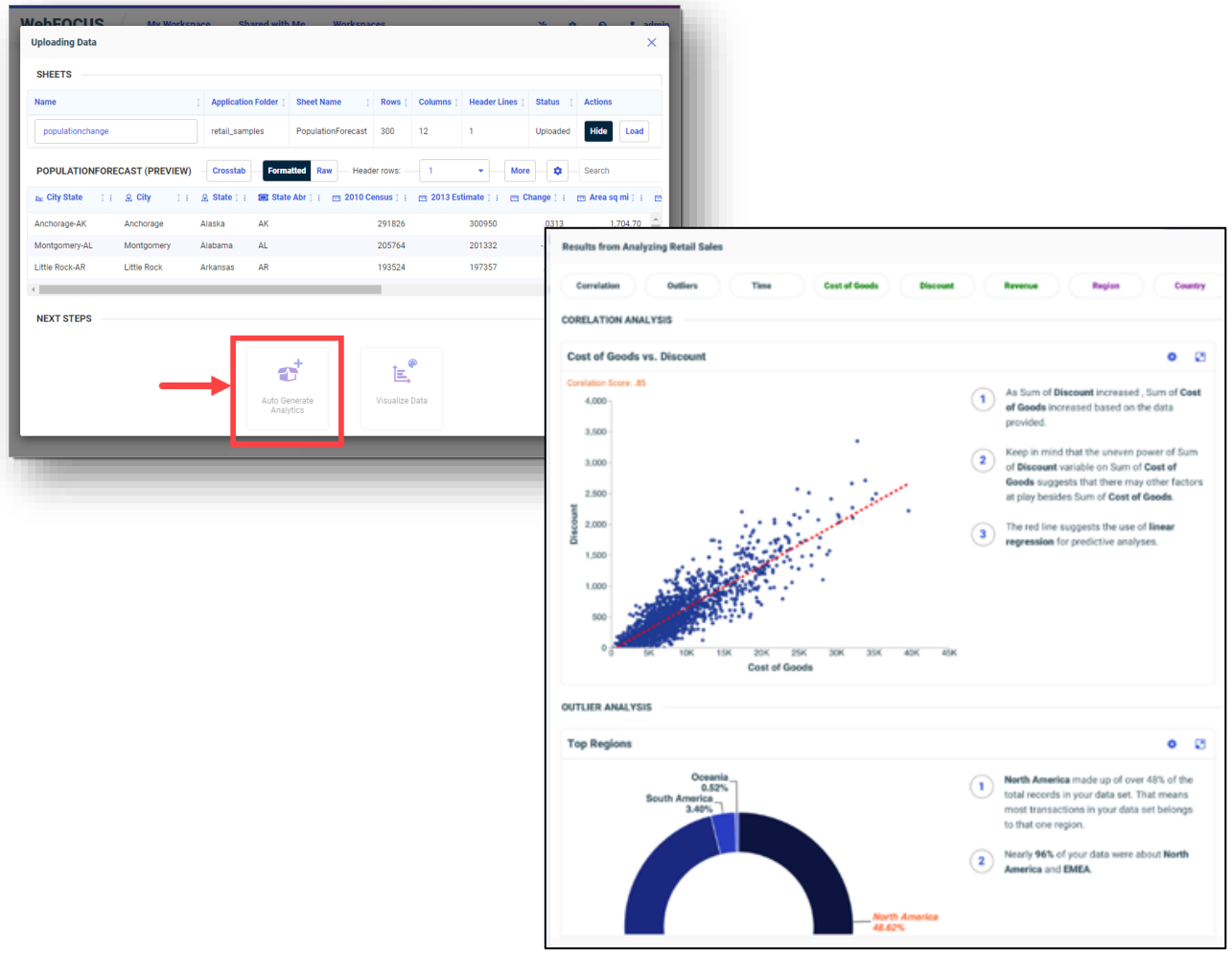
NEW

*Supports 7.3 and 7.4 only

Auto Generate Insights

Increase productivity and gain insights through automatic generation of analytics

- Automatically analyze data sets via built-in ML (machine learning) models to find correlations and outliers
- User can adjust thresholds and sample size to focus on interesting areas of the data
- Each visualization includes an automatically generated narrative to highlight important aspects of the data
- Initially shipped as a limited use cloud-based approach for Phase 1



Note: Insights ships with a default of being disabled

UPDATED EZ-Install Package – Version 2.3.0 PTF Group 1

- EZ-Install is **HIGHLY RECOMMENDED** for installing Web Query or upgrading from previous versions
  - Request it by sending an email to QU2@us.ibm.com, including name, company name, and s/n
  - It provides **VALUE ADD** way beyond just restoring the license program products
    - Sample Reports, Tutorials, Utilities to help you get a **FAST START**
      - Query/400 Discovery Tool
      - Create Date Dimension Table (really cool)
      - Sample Reports for the Systems Administrator
      - Business oriented sample reports backed by tutorials
      - **New EZ-Report**
  - Tutorials and additional "how to" documentation provide guides to show you how the sample reports were built

HELP us help you – make sure your IBM Business Partner is using EZ-Install to install or upgrade!

NEW

Quick Demo?

IBM® Db2® for i Services

Health Center Procedures

QSYS2.HEALTH_ACTIVITY
QSYS2.HEALTH_DATABASE_OVERVIEW
QSYS2.HEALTH_DESIGN_LIMITS
QSYS2.HEALTH_ENVIRONMENTAL_LIMITS
QSYS2.HEALTH_SIZE_LIMITS
QSYS2.RESET_ENVIRONMENTAL_LIMITS

Utility Services

QSYS2.ANALYZE_CATALOG – UDTF
QSYS2.CANCEL_SQL – PROCEDURE
QSYS2.COMPARE_FILE – UDTF
QSYS2.DUMP_SQL_CURSORS – PROCEDURE
QSYS2.END_IDLE_SQE_THREADS – PROCEDURE
QSYS2.EXTRACT_STATEMENTS – PROCEDURE
QSYS2.FIND_AND_CANCEL_QSQSRVR_SQL – PROCEDURE
QSYS2.FIND_QSQSRVR_JOBS – PROCEDURE
QSYS2.GENERATE_SQL – PROCEDURE
QSYS2.GENERATE_SQL_OBJECTS – PROCEDURE
QSYS2.RESTART_IDENTITY – PROCEDURE
QSYS2.SWAP_DYNUSRPRF – PROCEDURE
SYSTOOLS.CHECK_SYSCST – PROCEDURE
SYSTOOLS.CHECK_SYSROUTINE – PROCEDURE
SYSTOOLS.RELATED_OBJECTS – UDTF
SYSTOOLS.VALIDATE_DATA – UDTF

Application Services

QSYS2.DELIMIT_NAME – UDF
QSYS2.OVERRIDE_QAQQINI – PROCEDURE
QSYS2.OVERRIDE_TABLE – PROCEDURE
QSYS2.PARSE_STATEMENT – UDTF
SYSPROC.WLM_SET_CLIENT_INFO – PROCEDURE

Performance Services

QSYS2.ADD_QUERY_THRESHOLD – PROCEDURE
QSYS2.CONDENSEDINDEXADVICE – VIEW
QSYS2.DATABASE_MONITOR_INFO – VIEW
QSYS2.QUERY_SUPERVISOR – VIEW
QSYS2.REMOVE_QUERY_THRESHOLD – PROCEDURE
QSYS2.RESET_TABLE_INDEX_STATISTICS – PROCEDURE
QSYS2.SYSIXADV – TABLE
SYSTOOLS.ACT_ON_INDEX_ADVICE – PROCEDURE
SYSTOOLS.HARVEST_INDEX_ADVICE – PROCEDURE
SYSTOOLS.REMOVE_INDEXES – PROCEDURE

Plan Cache Procedures

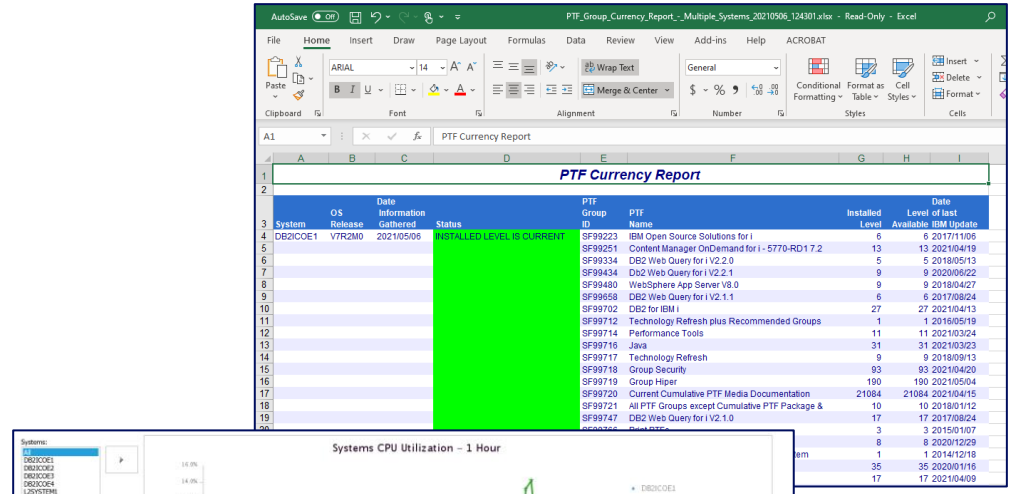
QSYS2.CHANGE_PLAN_CACHE_SIZE
QSYS2.CLEAR_PLAN_CACHE
QSYS2.DUMP_PLAN_CACHE
QSYS2.DUMP_PLAN_CACHE_PROPERTIES
QSYS2.DUMP_PLAN_CACHE_TOPN
QSYS2.DUMP_SNAP_SHOT_PROPERTIES
QSYS2.END_ALL_PLAN_CACHE_EVENT_MONITORS
QSYS2.END_PLAN_CACHE_EVENT_MONITOR
QSYS2.IMPORT_PC_EVENT_MONITOR
QSYS2.IMPORT_PC_SNAPSHOT
QSYS2.REMOVE_PC_EVENT_MONITOR
QSYS2.REMOVE_PC_SNAPSHOT
QSYS2.REMOVE_PERFORMANCE_MONITOR
QSYS2.START_PLAN_CACHE_EVENT_MONITOR

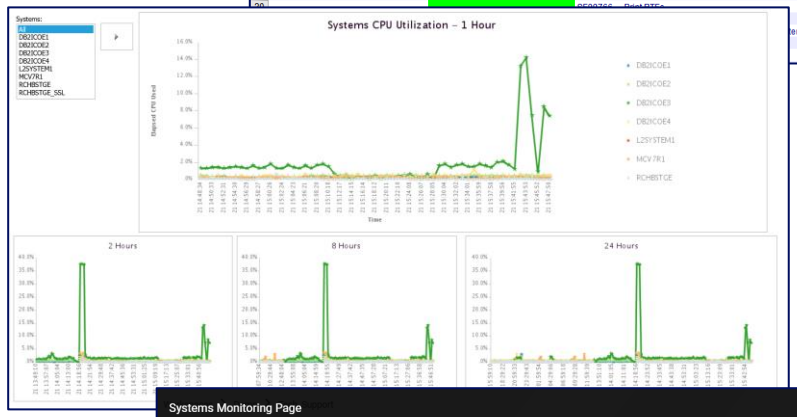
New or Enhanced @ IBM i 7.3 TR10 and IBM i 7.4 TR4

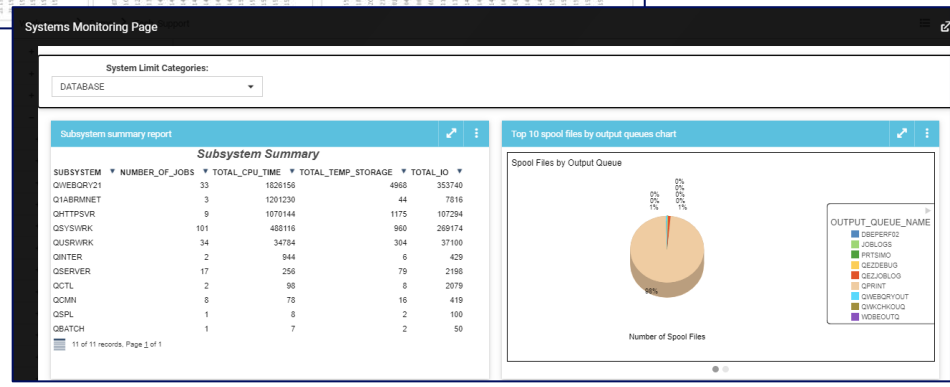
https://www.ibm.com/support/pages/node/1119123

IBM i Services and SYSTOOLS Are Really Awesome!

- But now I want to….
  - Dump the information into a spreadsheet
  - Run a report with simple parameters with an option to choose output format
  - Schedule the report to run every Friday night and email the report to stakeholders
  - Capture the data on a daily basis and add into a history table for trending reports
  - Run the reports against multiple systems/VMs and consolidate data into a central file/table for cross system reporting
  - Build charts/visualizations over the services and place on a dashboard
  - Get Spooled File data into a spreadsheet or PDF

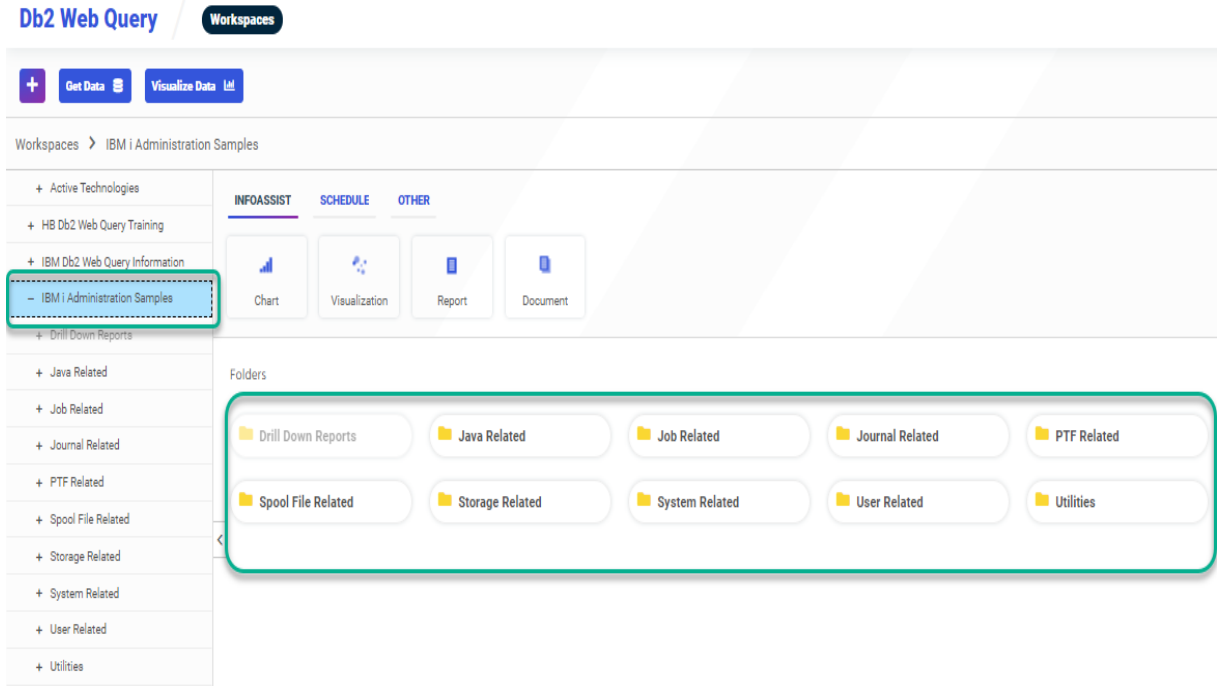






Learn from Db2 Web Query Sample Reports

- Db2 Web Query provides SAMPLE reports with the **EZ-Install** installation package
  - Sample reports and dashboards over IBM i Services
    - Organized by topic
    - Documentation on how they were built
  - Multi-System Reports
  - Reports with Drill Downs into Details
  - Examples of pulling spooled file data into a spreadsheet or PDF
  - Dashboards
  - Schedule the reports to be distributed
  - ***Use as is or modify (but make a copy first please)!***

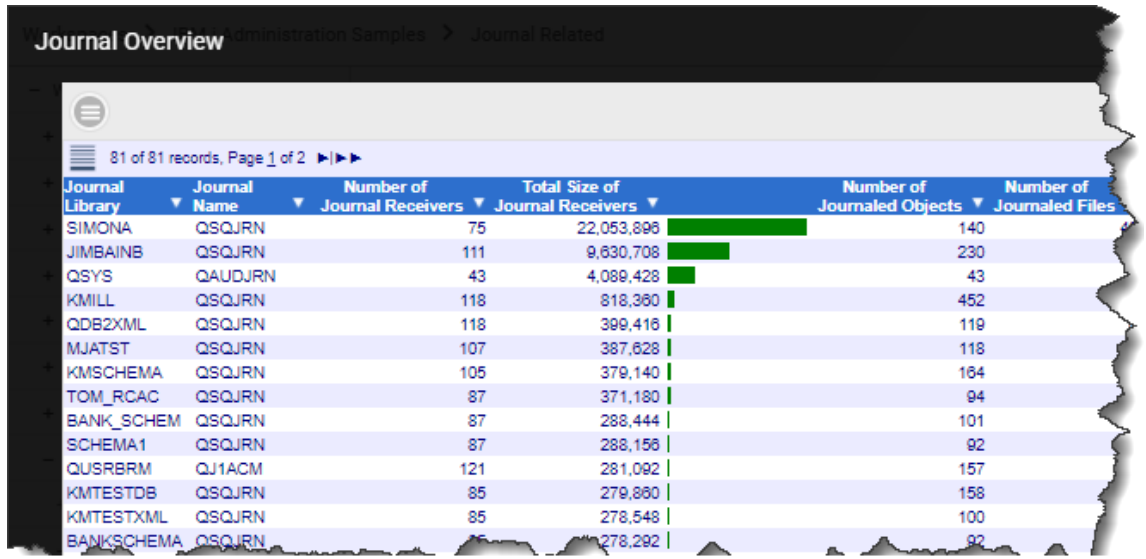


Request EZ-Install package by sending email to QU2@us.ibm.com; please include name, company name, serial number, and IBM i OS level

Over a Dozen Sample Reports Included with EZ-Install

IBM i Anywhere
IBM i Everywhere

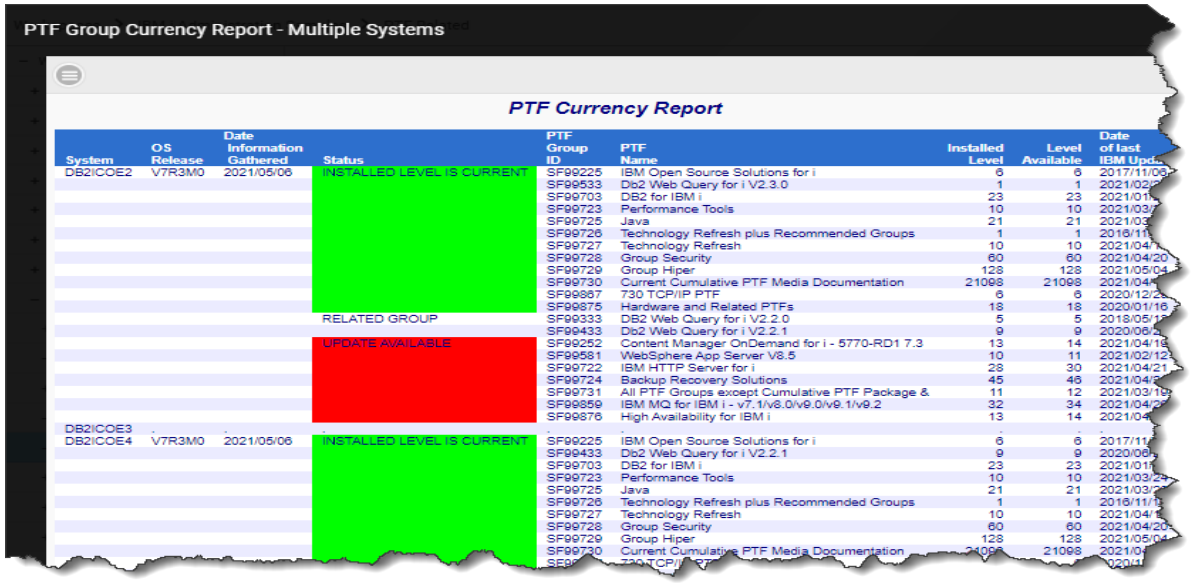
Journal Overview Report



Journal Library	Journal Name	Number of Journal Receivers	Total Size of Journal Receivers	Number of Journaled Objects	Number of Journaled Files
SIMONA	QSQJRN	75	22,053,896	140	
JIMBAINB	QSQJRN	111	9,630,708	230	
QSYS	QAUDJRN	43	4,089,428	43	
KMILL	QSQJRN	118	818,360	452	
QDB2XML	QSQJRN	118	399,416	119	
MJATST	QSQJRN	107	387,628	118	
KMSCHEMA	QSQJRN	105	379,140	164	
TOM_RCAC	QSQJRN	87	371,180	94	
BANK_SCHEM	QSQJRN	87	288,444	101	
SCHEMA1	QSQJRN	87	288,156	92	
QUSRBRM	QJ1ACM	121	281,092	157	
KMTESTDB	QSQJRN	85	279,860	158	
KMTESTXML	QSQJRN	85	278,548	100	
BANKSCHEMA	QSQJRN		278,292	92	

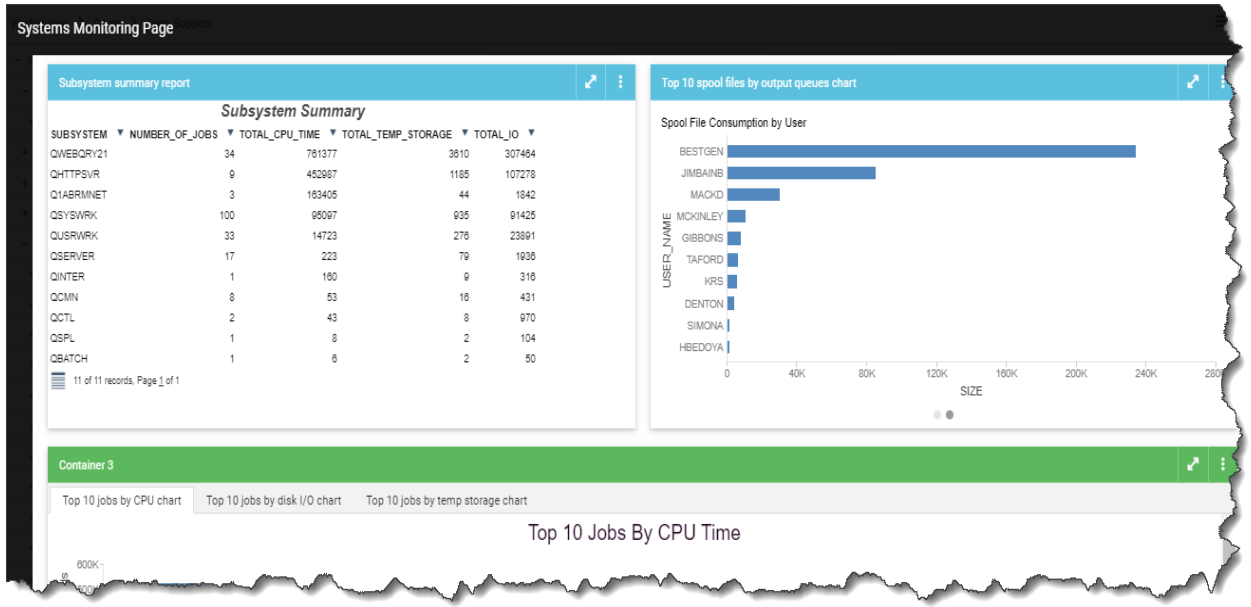
Temp Storage Visualization

Multiple System PTF Currency Report



System	OS Release	Date Information Gathered	Status	PTF Group ID	PTF Name	Installed Level	Level Available	Date of last IBM Upd
DB2ICOE2	V7R3M0	2021/05/06	INSTALLED LEVEL IS CURRENT	SF99225	IBM Open Source Solutions for i	6	6	2017/11/06
				SF99533	Db2 Web Query for i V2.3.0	1	1	2021/02
				SF99703	DB2 for IBM i	23	23	2021/01
				SF99723	Performance Tools	10	10	2021/03
				SF99725	Java	21	21	2021/03
				SF99726	Technology Refresh plus Recommended Groups	1	1	2016/11
				SF99727	Technology Refresh	10	10	2021/04
				SF99728	Group Security	60	60	2021/04/20
				SF99729	Group Hiper	128	128	2021/05/04
				SF99730	Current Cumulative PTF Media Documentation	21098	21098	2021/04
				SF99867	730 TCP/IP PTF	6	6	2020/12/2
				SF99875	Hardware and Related PTFs	18	18	2020/01/16
				SF99333	Db2 Web Query for i V2.2.0	5	5	2018/05/1
				SF99433	Db2 Web Query for i V2.2.1	9	9	2020/06/
			RELATED GROUP	SF99252	Content Manager OnDemand for i - 5770-RD1 7.3	13	14	2021/04/15
				SF99581	WebSphere App Server V8.5	10	11	2021/02/12
				SF99722	IBM HTTP Server for i	28	30	2021/04/21
				SF99724	Backup Recovery Solutions	45	46	2021/04/
				SF99731	All PTF Groups except Cumulative PTF Package &	11	12	2021/03/19
				SF99859	IBM MQ for IBM i - v7.1/v8.0/v9.0/v9.1/v9.2	32	34	2021/04/2
				SF99876	High Availability for IBM i	13	14	2021/04
DB2ICOE3								
DB2ICOE4	V7R3M0	2021/05/06	INSTALLED LEVEL IS CURRENT	SF99225	IBM Open Source Solutions for i	6	6	2017/11
				SF99433	Db2 Web Query for i V2.2.1	9	9	2020/06
				SF99703	DB2 for IBM i	23	23	2021/01
				SF99723	Performance Tools	10	10	2021/03/24
				SF99725	Java	21	21	2021/03/
				SF99726	Technology Refresh plus Recommended Groups	1	1	2016/11/1
				SF99727	Technology Refresh	10	10	2021/04/1
				SF99728	Group Security	60	60	2021/04/20
				SF99729	Group Hiper	128	128	2021/05/04
				SF99730	Current Cumulative PTF Media Documentation	21098	21098	2021/04

Systems Monitoring Dashboard

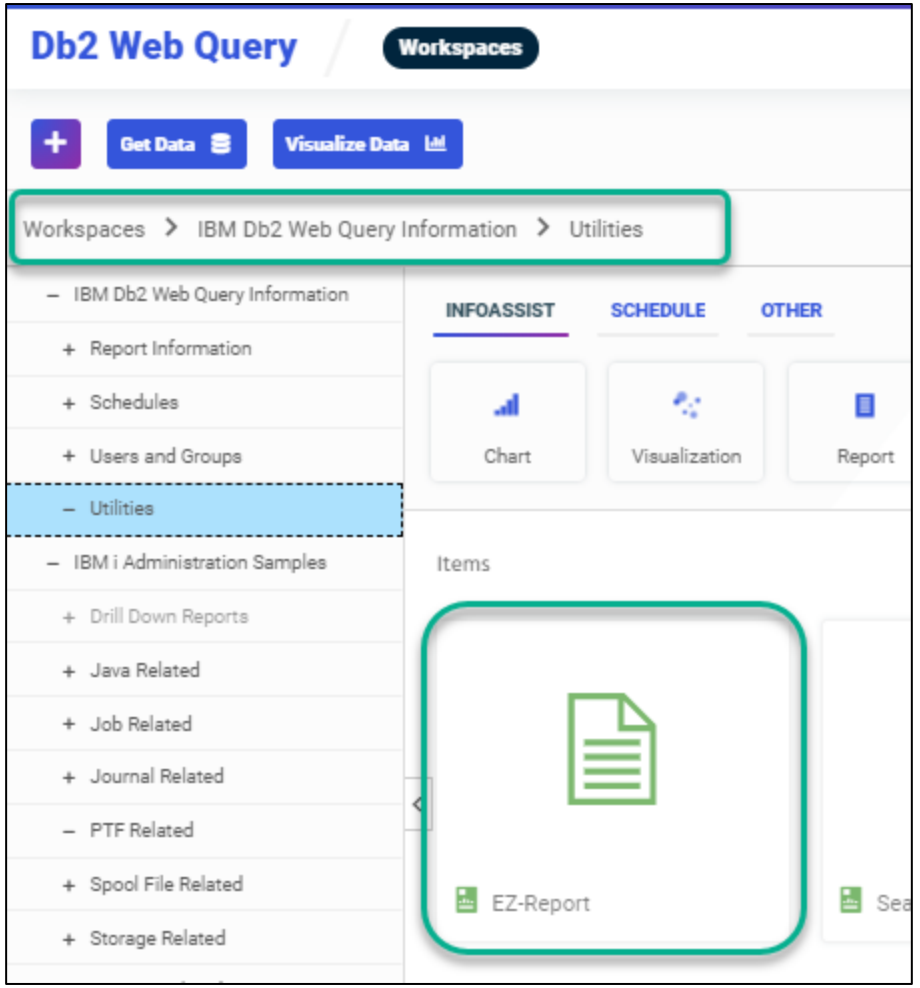


SUBSYSTEM	NUMBER_OF_JOBS	TOTAL_CPU_TIME	TOTAL_TEMP_STORAGE	TOTAL_IO
QWEBQRY21	34	761377	3610	307464
QHTTPSVR	9	452987	1185	107278
Q1ABRMNET	3	163405	44	1842
QSYSWRK	100	95097	935	91425
QUSRWRK	33	14723	276	23891
QSERVER	17	223	79	1936
QINTER	1	160	9	316
QCMN	8	53	16	431
QCTL	2	43	8	970
QSPL	1	8	2	104
QBATCH	1	6	2	50

11 of 11 records, Page 1 of 1

DIY with ACS and EZ-Report (Local system example)

- New Utility to auto generate a synonym AND a report over an SQL statement or file/table **IN SECONDS**
  - Enhance the report (or synonym) if desired
- The Process:
  - Use ACS' Insert from Examples to create/modify/test SQL Statement over IBM i Service
  - Simply Copy/Paste the SQL Statement into the EZ-Report Utility
    - Avoid Special Characters
    - Need to have Validation List in place for authorization
    - See Video at http://ibm.biz/db2wq-230-videos



1. Use ACS “Insert from Examples”

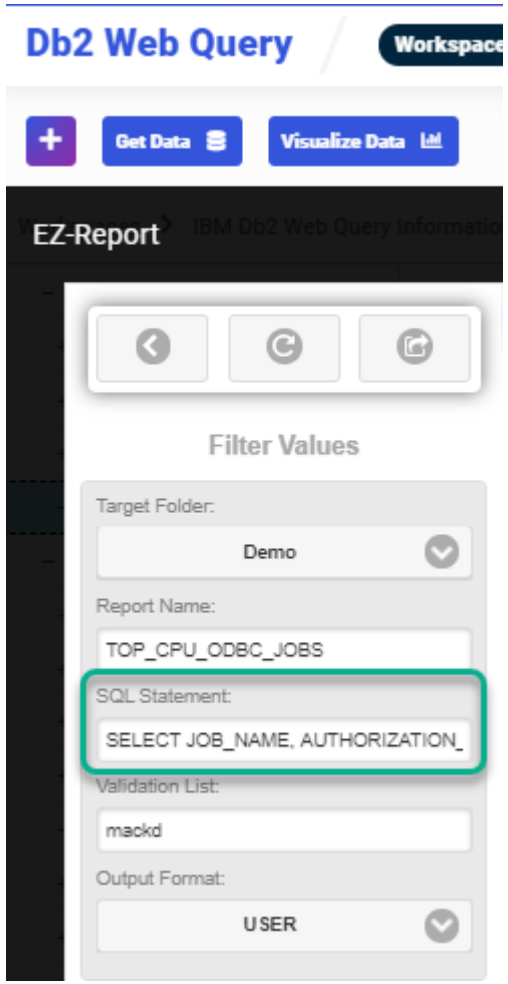
Example: **Top xx ODBC Jobs Report**

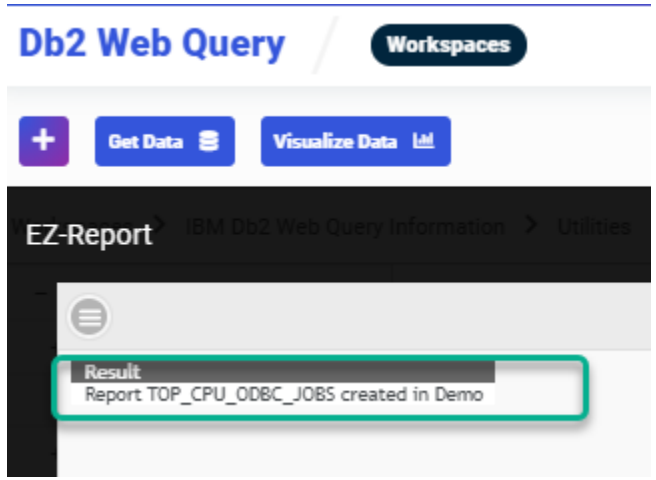
- Use the examples provided as a starting point
- Edit to your desire
  - You may want to remove a limit of only returning 10 records
  - Or remove sort order and let the reporting tool worry about that (provide the end user the flexibility vs. forcing the result set in the SQL statement)

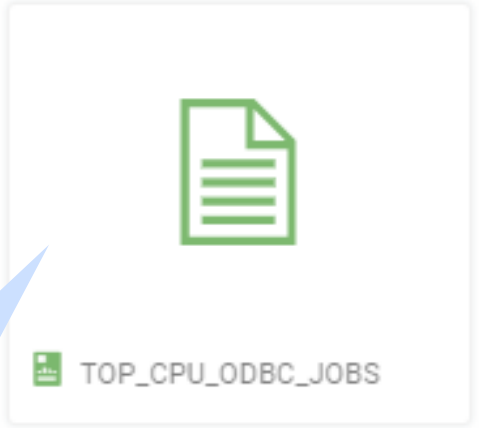
```
SELECT JOB_NAME, AUTHORIZATION_NAME, SUBSYSTEM, JOB_STATUS, MEMORY_POOL, CPU_TIME
TOTAL_DISK_IO_COUNT

  FROM TABLE(ACTIVE_JOB_INFO(JOB_NAME_FILTER => 'QZDASOINIT', SUBSYSTEM_LIST_FILTER =>
'QUSRWRK')) x;
```

- Test Your SQL Statement

2. Copy/Paste SQL into **EZ-Report**







New Report Built in SECONDS!

What You Can Do with Auto Generated Report

Edit the Report with InfoAssist+

– Add headers and footers

– Create the hyper links (drill to another report)

– Change the look via Style Sheets

– Add a filter (dynamic parameter)

  • Example: Calendar Widget for dates

– Change report features

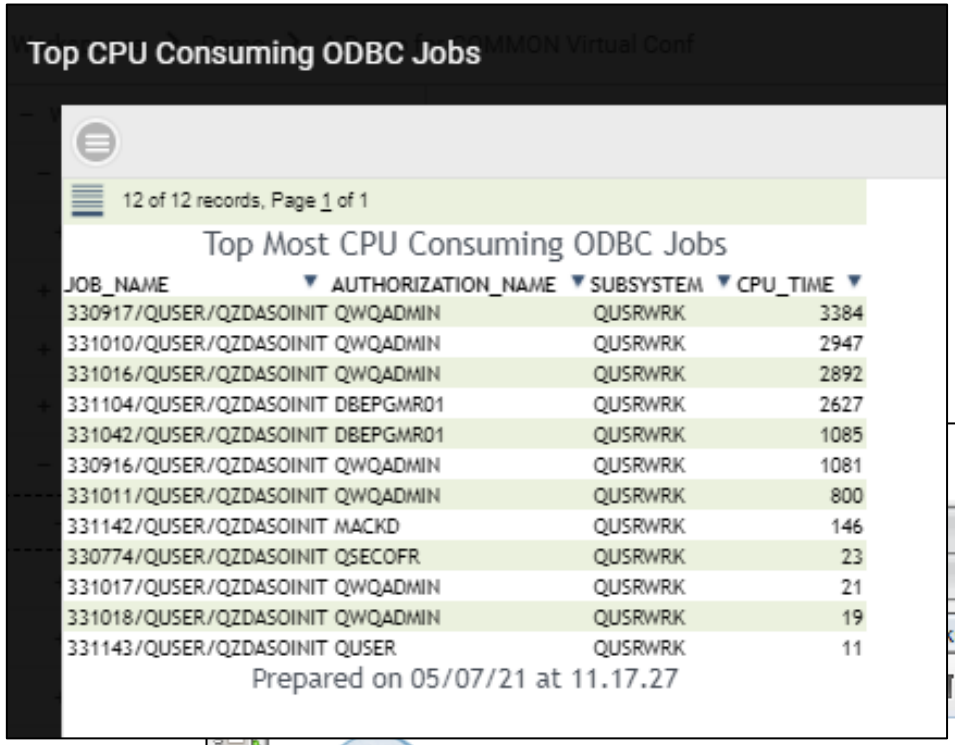
  • Repeat sort values

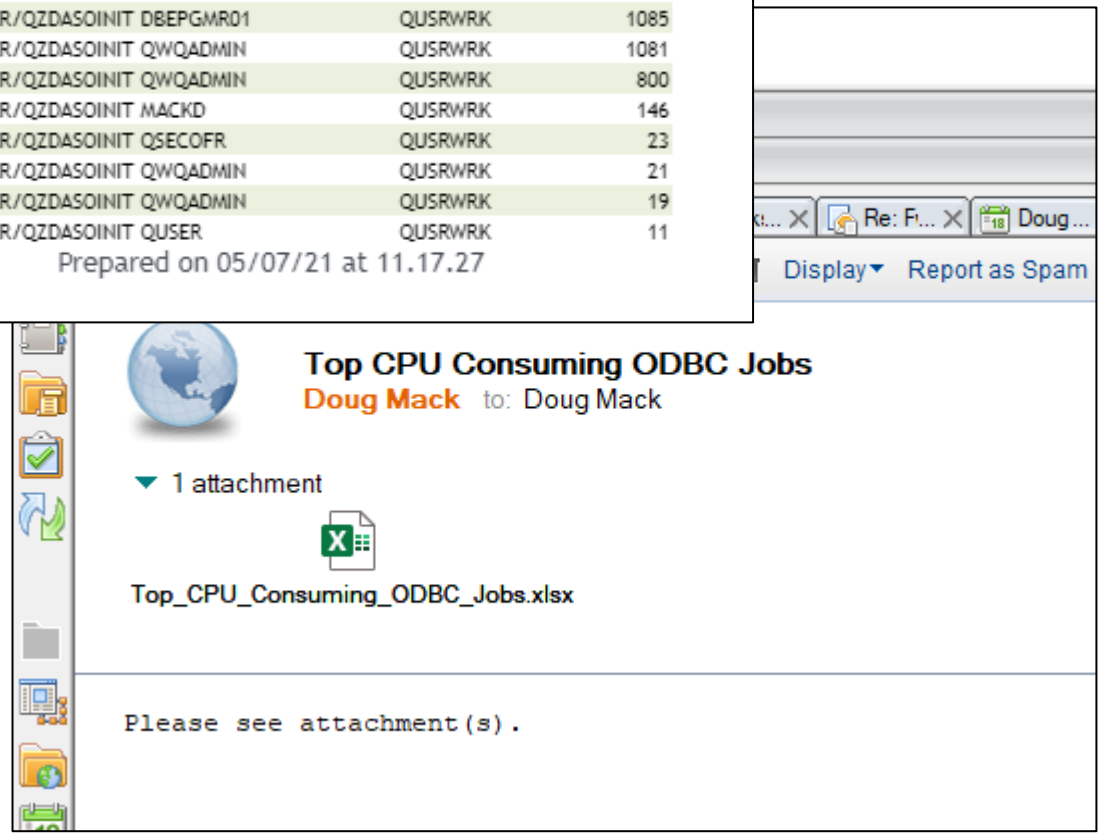
  • Creating ranking report

  • Add Accordion or Table of Contents behavior

– **Automate scheduling and distribution of the report**

Use the TUTORIALS in EZ-Install to learn more!





What About Remote System Reports

- In ALL cases you need a Remote Database Directory Entry and one-time run Add Server Authorization List (ADDSVRAUTE)

- IBM i Services are shipped as either a **VIEW, a Stored Procedure, or a Table Function**

- In the case of a **VIEW or Stored Procedure**, if the service exists on the remote system, you can create synonyms over **the remote** VIEW or a Stored Procedure in Db2 Web Query
    - Set up an adapter for your remote system
    - Create your synonym (do not use EZ-Report in this case)
    - Create your report
    - When the report is run it will run it on the remote system and return results to where Db2 Web Query is installed

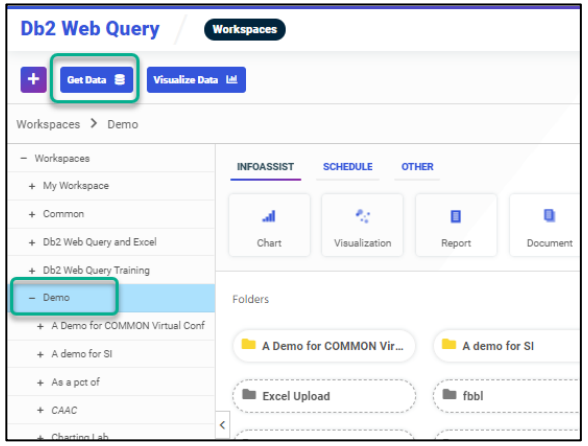
- In the case of **a VIEW** could also use 3-part names in your SQL statement in ACS
  – EZ-Report does not support 3-part names so you'll need to create the synonym over the view using the *LOCAL adapter
  – CREATE VIEW with your SQL Statement
  – Create a Synonym over your *LOCAL view that will select from systemname.library.viewname on the remote system!

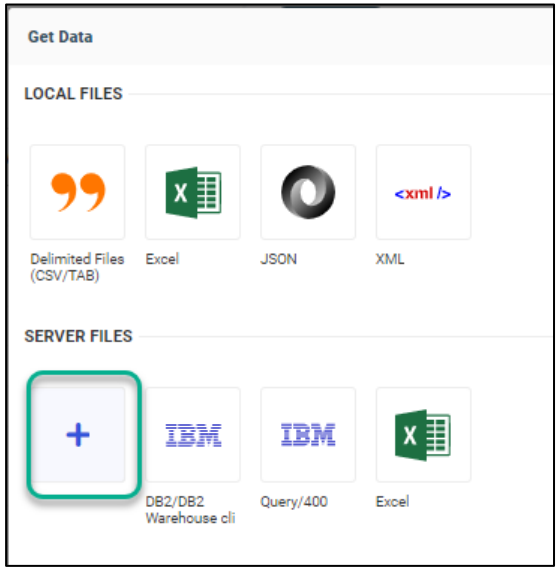
- Dealing with UDTFs and MULTI-SYSTEM reports are a bit more complicated

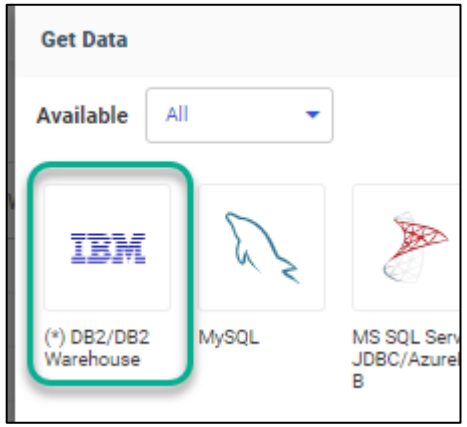
Creating Adapter for Remote Db2 for i Connections

IBM i Anywhere
IBM i Everywhere

- From the Home Page
  - Must have ADMIN rights to create new adapter
    - Make sure you're in a workspace you want to create your synonyms in
    - Click on GET DATA
    - Click on + sign icon
    - Double Click on IBM Db2/Db2 Warehouse TOOL



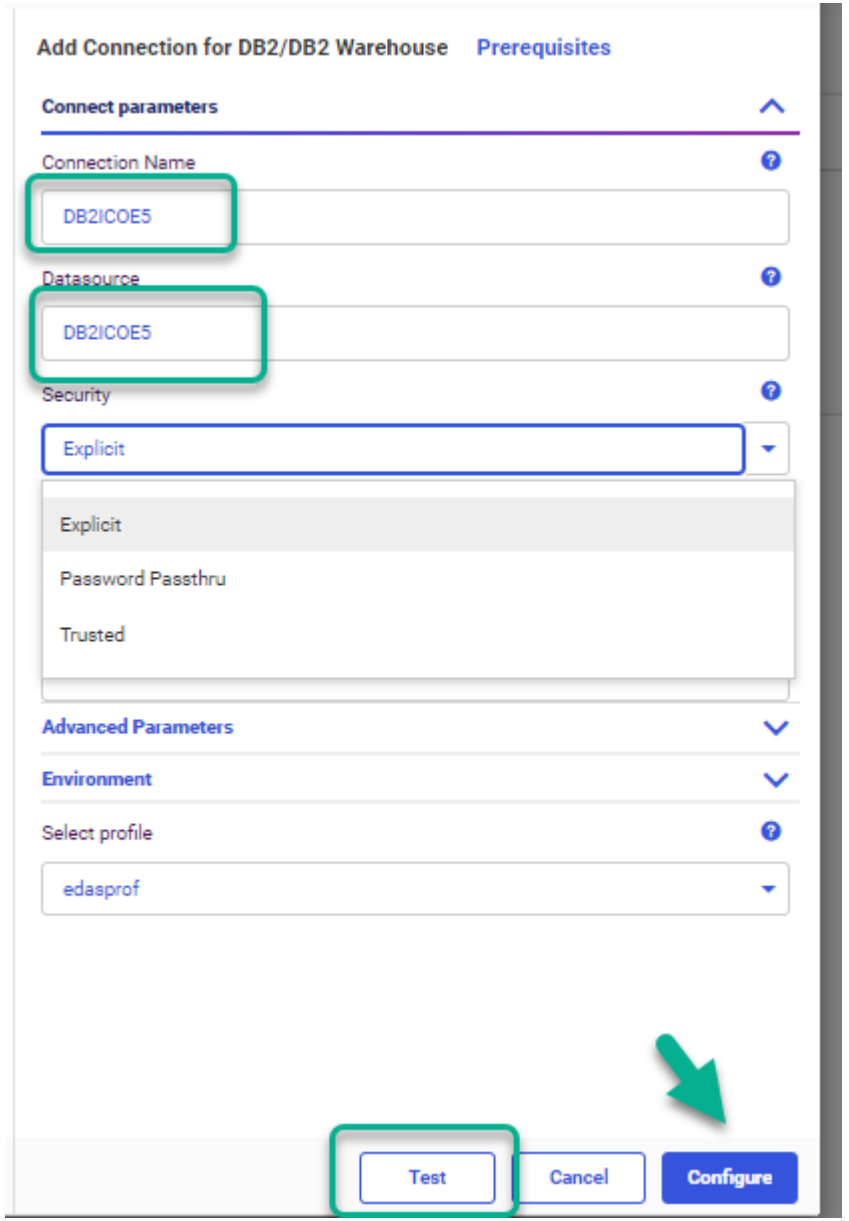




Creating Adapter for Remote Db2 for i Connections

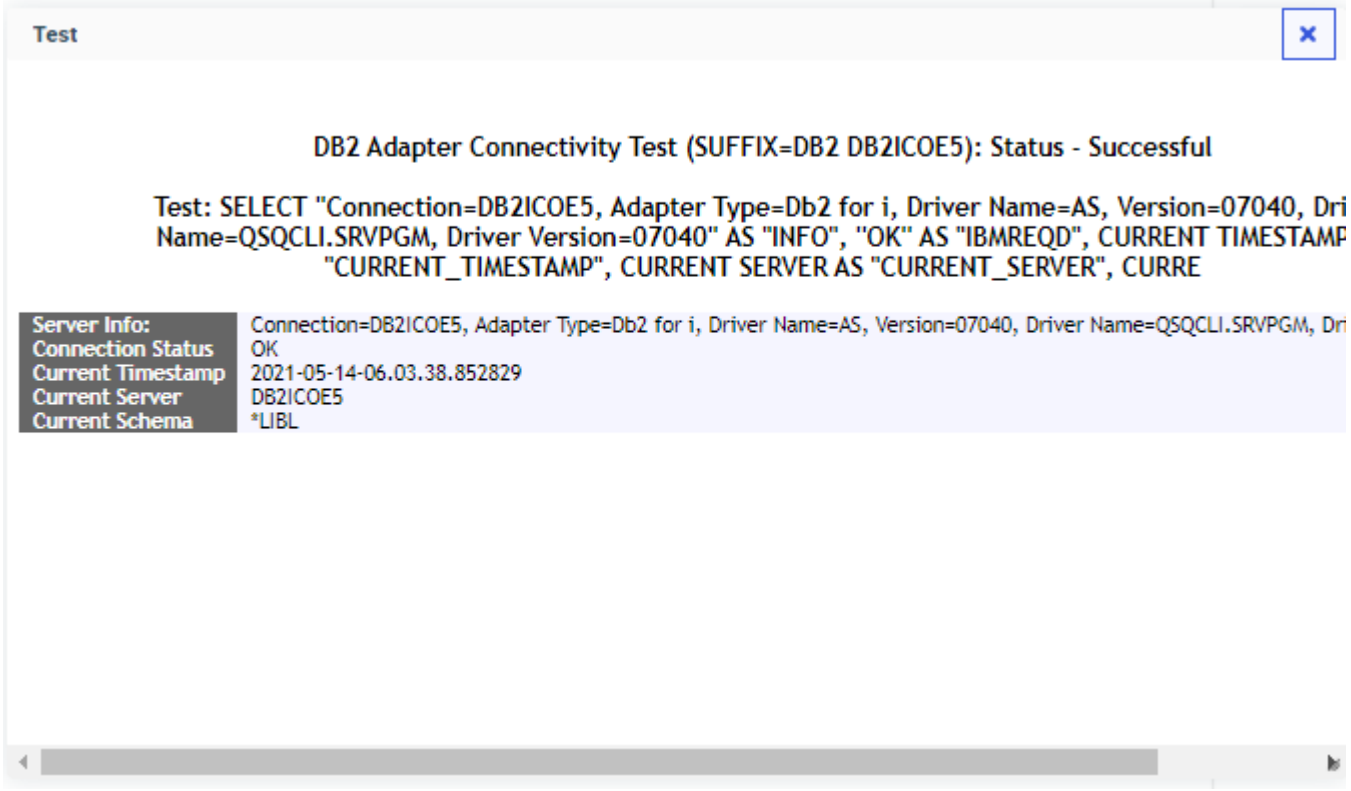
- Provide **Connection name** and **Data Source** (case sensitive)
  - DB2COE5 in this case

- Security options are:
  - **Password passthru** – use same userid/pw on remote system
  - **Explicit** – use a common userID to connect to remote system



Creating Adapter for Remote Db2 for i Connections

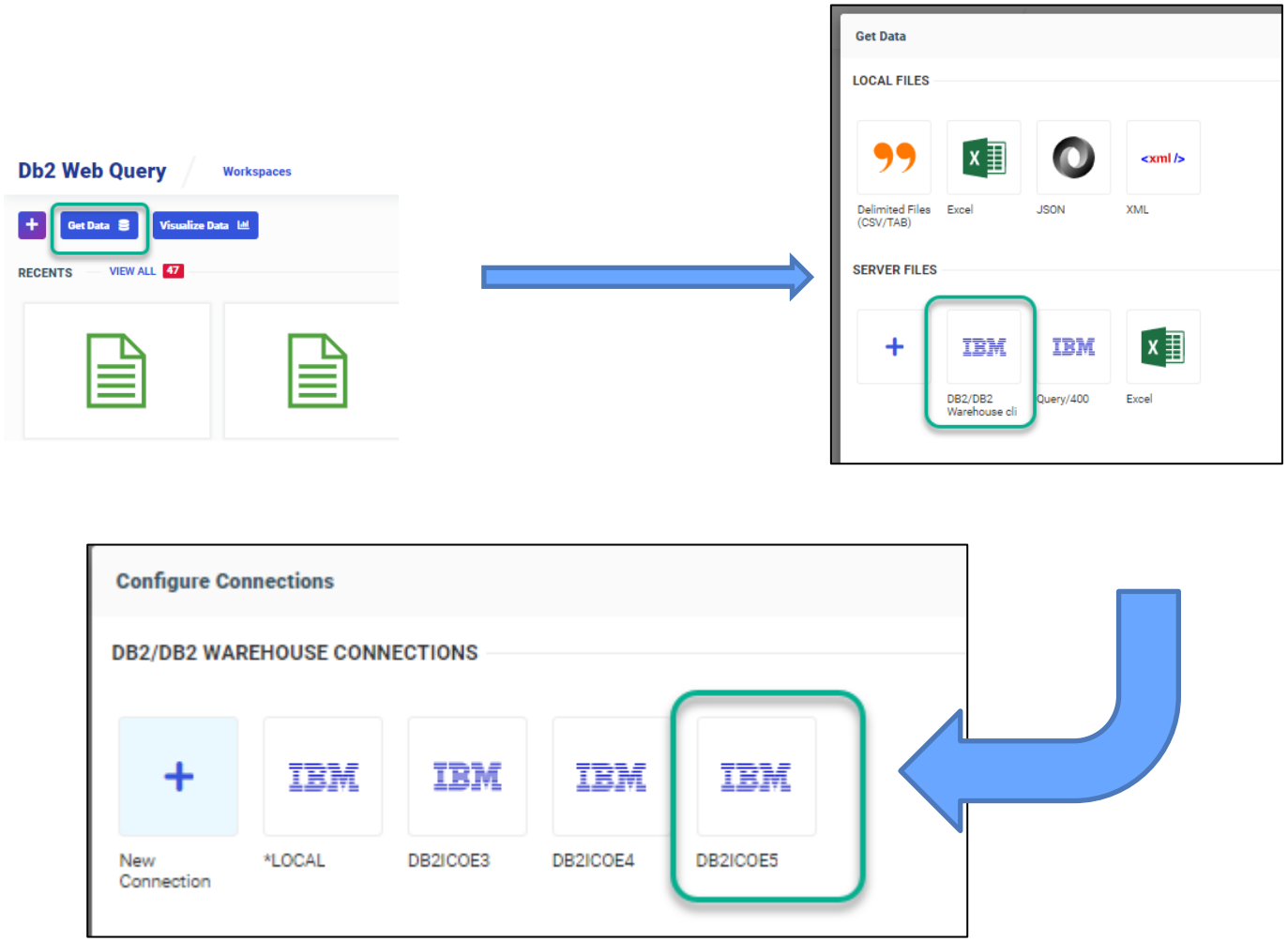
- Test the connection via the TEST button



- SELECT CONFIGURE

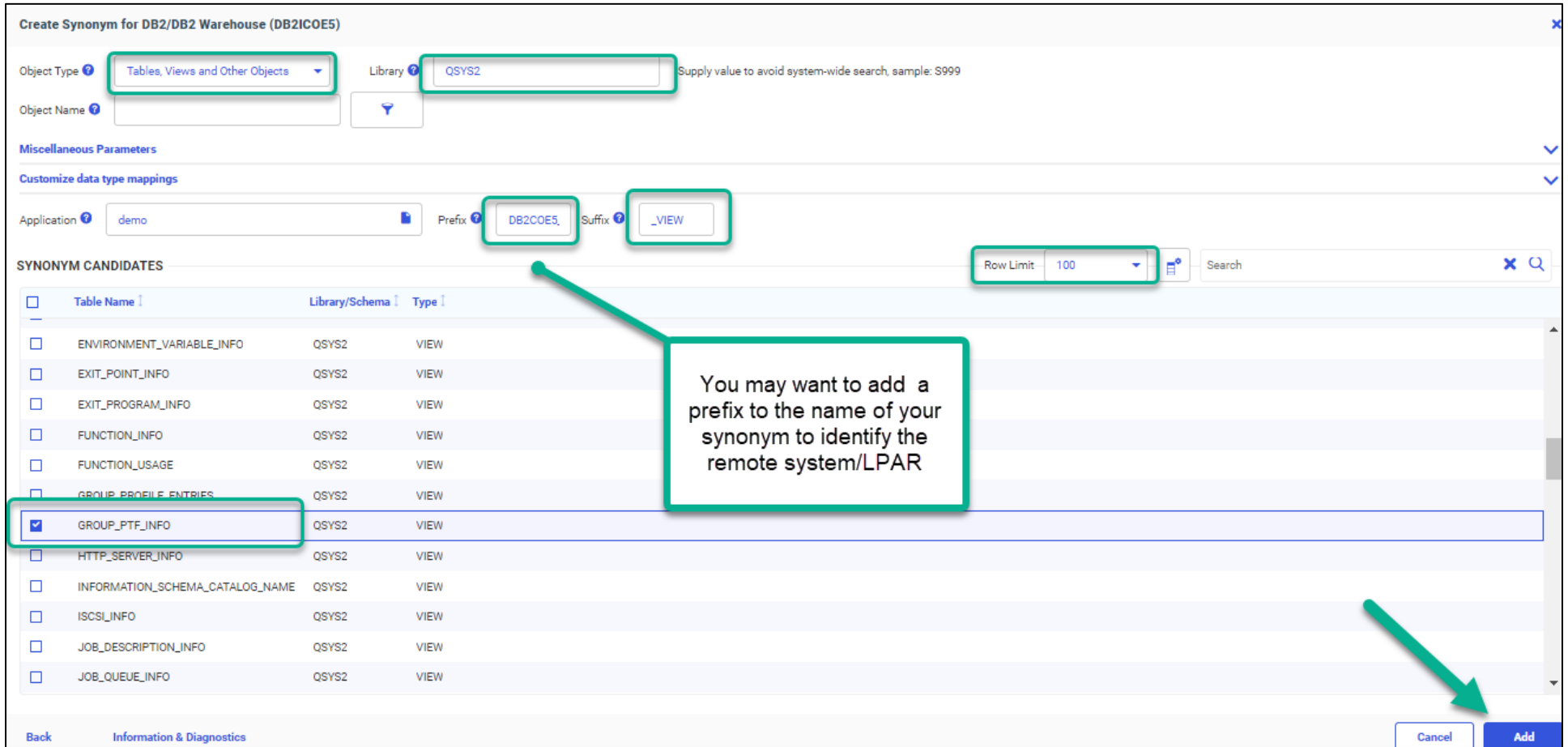
Create a Synonym over the Remote System Adapter

- Click on GET DATA from the Home Page
- Select Db2/Db2 Warehouse
- Select your new Adapter



Create Your Synonym Pointing to Remote System Data Sources

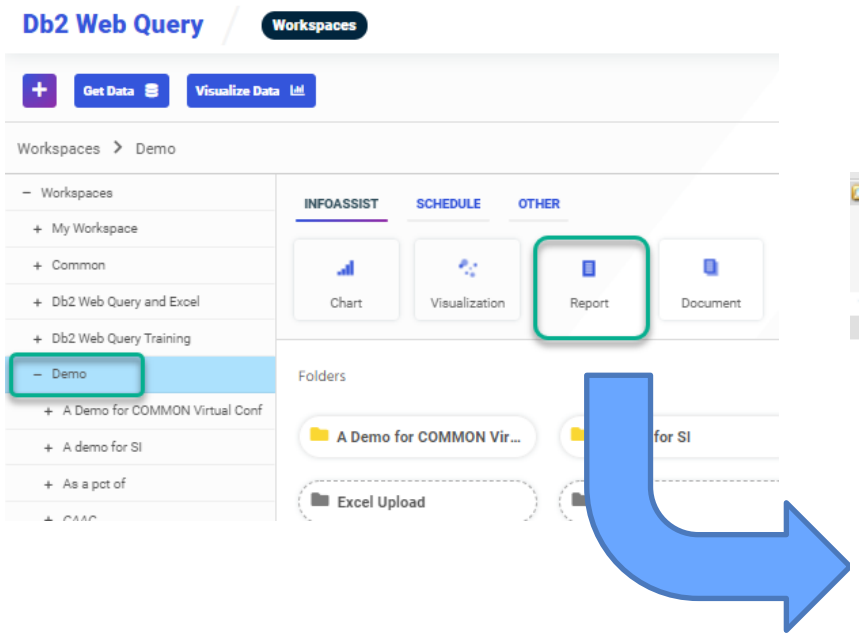
- Object Type – Choose Tables, Views, and Other Objects
- Enter Library where the view exists on the remote system (QSYS2)
  - You might need to change ROW LIMIT to more than the default of 50
- Select the VIEW
- Make sure app folder, prefix and suffix are added, and click on ADD

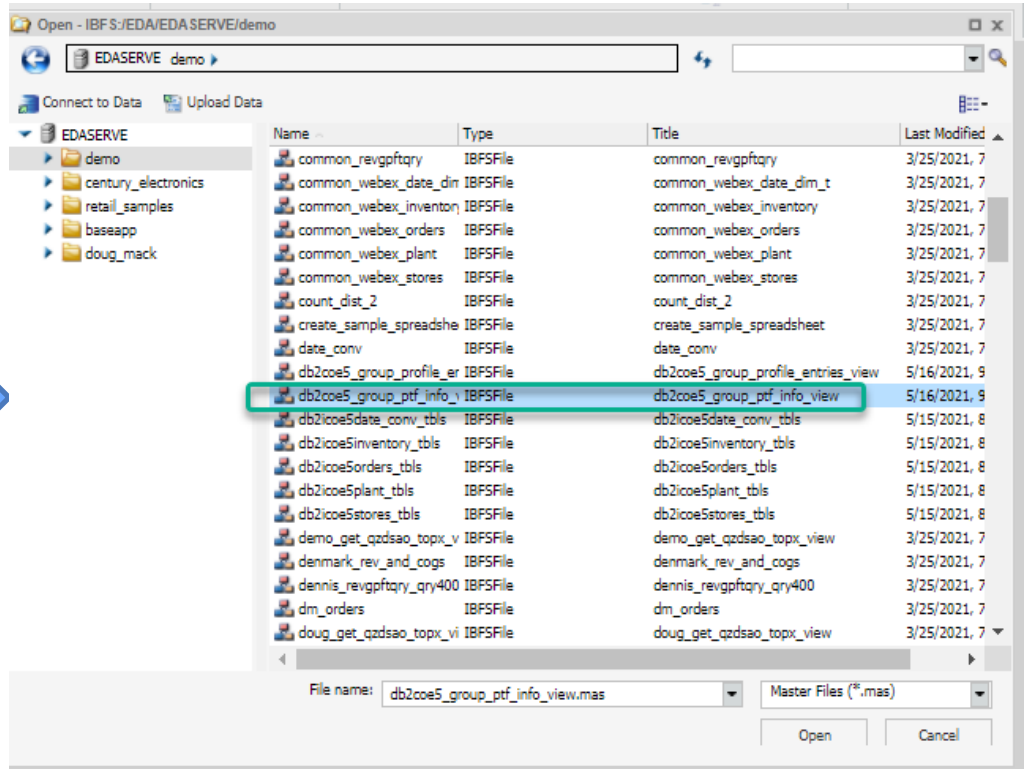


Create Your Report

- Note that DESIGNER auto loads in a new tab. You can close that – in this example we'll use InfoAssist instead of DESIGNER

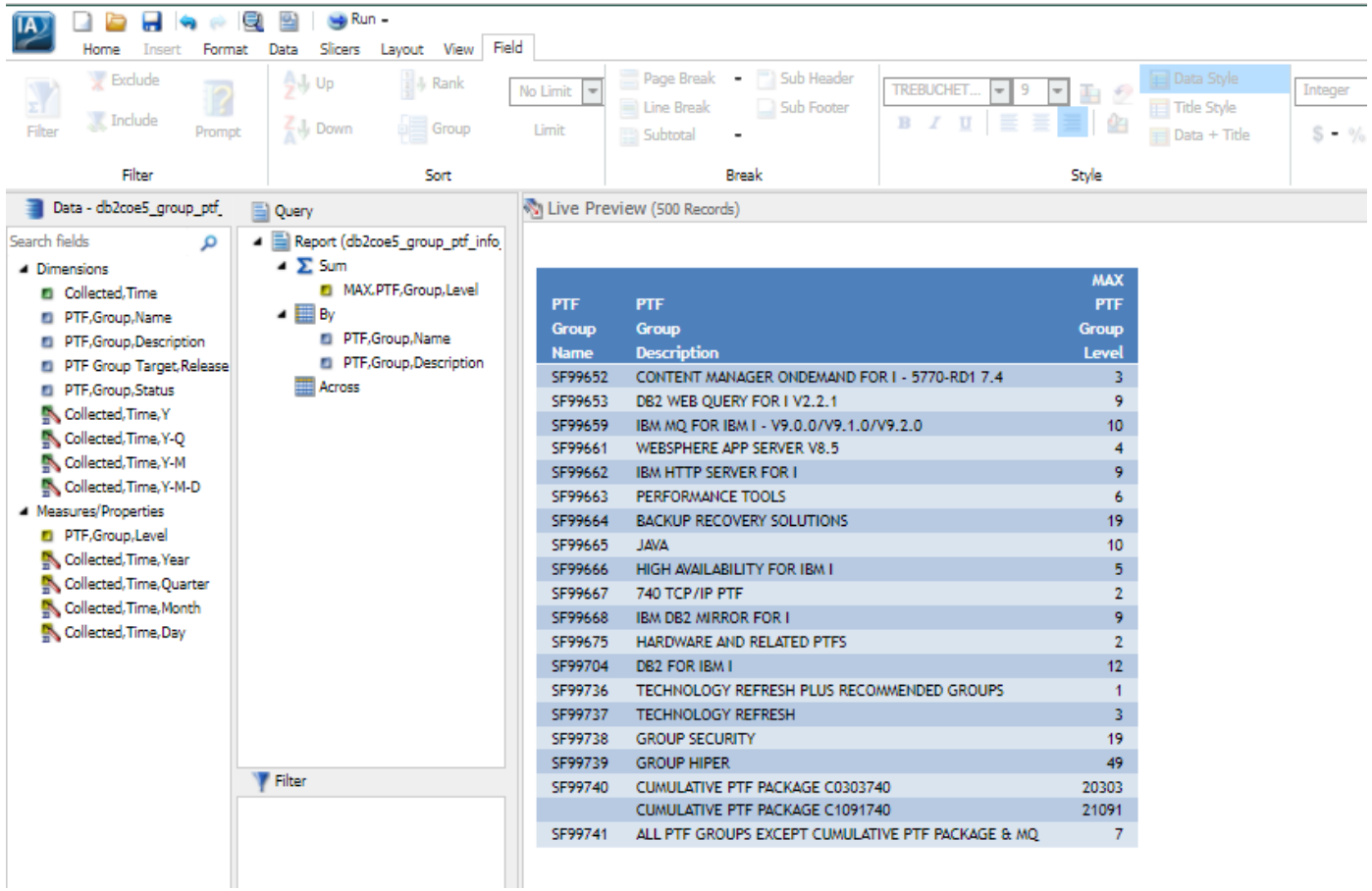
- Within DEMO workspace, click on REPORT, and select the DB2ICOE5_ORDERS_TBLS synonym that we just created in the last step





Create Your Report over the Remote Table/File

- When you run your report, it will source the data from your remote system!



PTF Group Name	PTF Group Description	MAX PTF Group Level
SF99652	CONTENT MANAGER ONDEMAND FOR I - 5770-RD1 7.4	3
SF99653	DB2 WEB QUERY FOR I V2.2.1	9
SF99659	IBM MQ FOR IBM I - V9.0.0/V9.1.0/V9.2.0	10
SF99661	WEBSPHERE APP SERVER V8.5	4
SF99662	IBM HTTP SERVER FOR I	9
SF99663	PERFORMANCE TOOLS	6
SF99664	BACKUP RECOVERY SOLUTIONS	19
SF99665	JAVA	10
SF99666	HIGH AVAILABILITY FOR IBM I	5
SF99667	740 TCP/IP PTF	2
SF99668	IBM DB2 MIRROR FOR I	9
SF99675	HARDWARE AND RELATED PTFS	2
SF99704	DB2 FOR IBM I	12
SF99736	TECHNOLOGY REFRESH PLUS RECOMMENDED GROUPS	1
SF99737	TECHNOLOGY REFRESH	3
SF99738	GROUP SECURITY	19
SF99739	GROUP HIPER	49
SF99740	CUMULATIVE PTF PACKAGE C0303740	20303
	CUMULATIVE PTF PACKAGE C1091740	21091
SF99741	ALL PTF GROUPS EXCEPT CUMULATIVE PTF PACKAGE & MQ	7

- NOTE – you'd want some way to indicate which system this info is coming from (header, name of report, etc.)

What Now You Want To:

- Use a service shipped as a UDTF
  - For running on your local system, you can wrapper the UDTF with a CREATE VIEW, then follow the same steps to create your synonym over your view using *LOCAL adapter

  - For remote systems, you could
    - Create the view on the remote systems, build synonym using the web query adapter pointing to each of the remote systems
    - Create a view using a 3-part name approach in your SQL statement and create the synonym over *LOCAL adapter (again, this is tricky and there is not a representative sample in ez-install for this technique)

- Build a single report that prompts for system names and runs the service on all of the remote systems identified in the prompt and returns a consolidated multi-system set of data for your report
  - You’re going to want to drive the prompting for system names and execution of the service in a STORED PROCEDURE
    - Then build your synonym over the Stored Procedure
  - Several SP examples are shipped with EZ-Install

BUY vs. BUILD OPTIONS: Remote File Consolidation

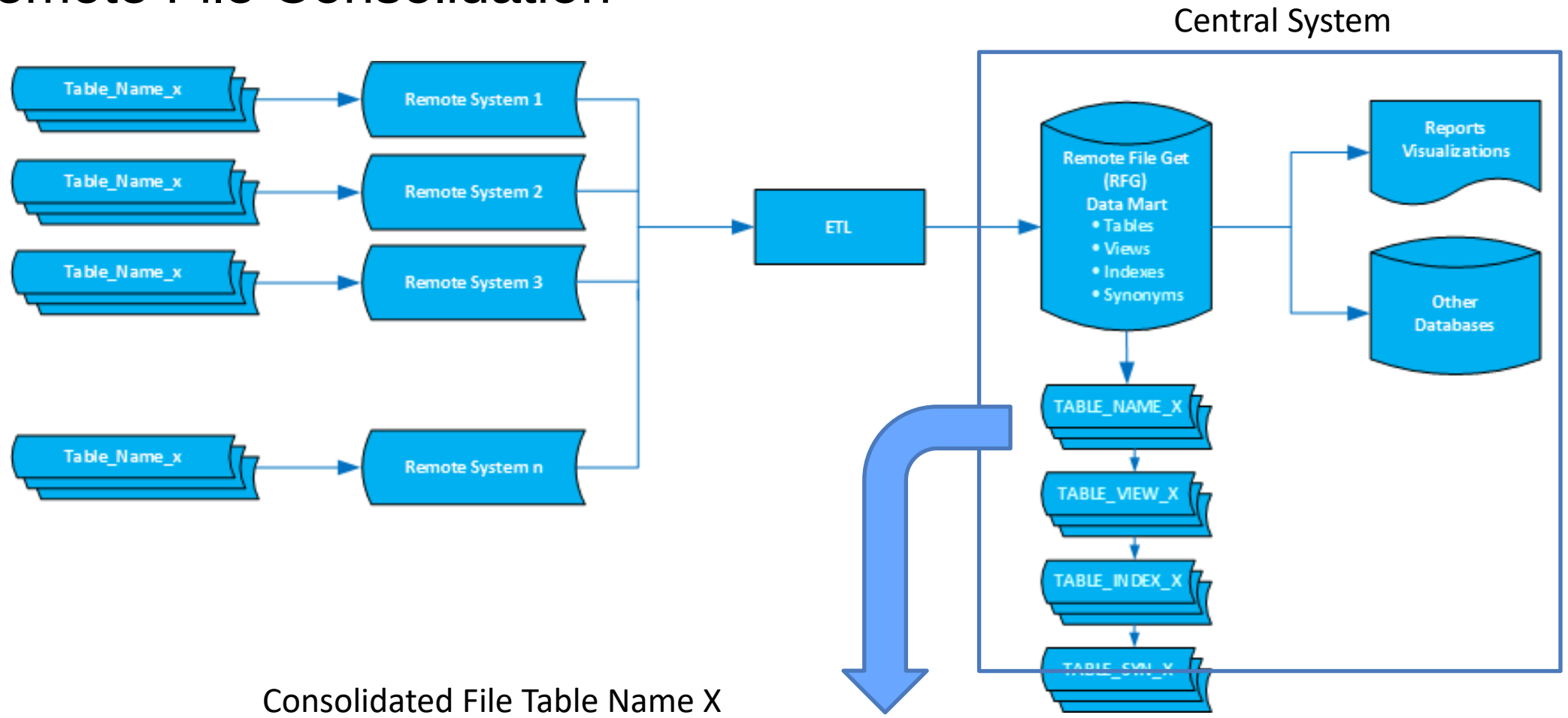
- IBM Lab Services utility to consolidate the same file that exists on multiple remote systems/LPAR
  - Sold as a standalone offering or included in the CART Enterprise Edition

- Requirement to consolidate a file (table or VIEW) that exists on multiple systems into a single file containing ALL records from each of those remote systems/LPARs.
  - Whole file extraction
  - Consolidated file enhanced with additional columns like system name and time stamp
    - Indexes and Db2 Web Query Synonyms also created
  - Use **Db2 Web Query EZ-Report or InfoAssist to** build reports/dashboards

- Example:
  - Every night you run an IBM i service query on each remote server. The results are dumped into a commonly named file/table across all remote systems
  - Each morning Remote File Consolidation is run to gather the rows from each of the remote files and append to a consolidated history file on the central server

Remote File Consolidation

IBM i Anywhere
IBM i Everywhere

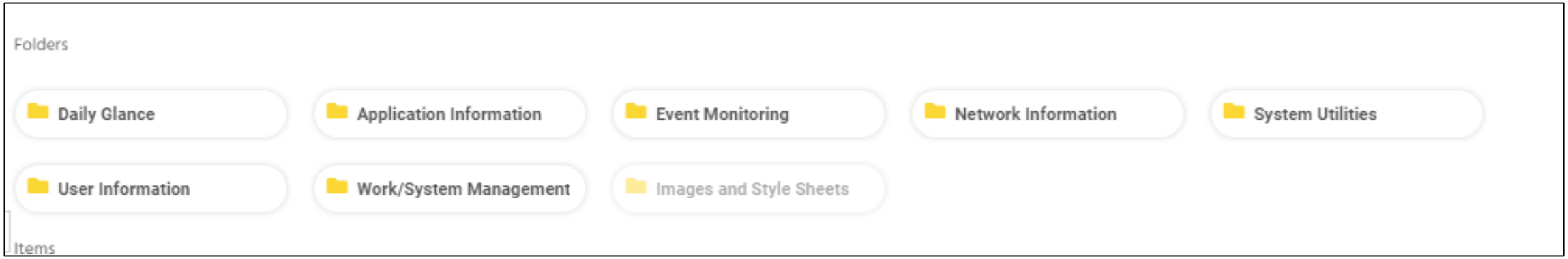


Consolidated File Table Name X

SYSTEM	TIMESTAMP	Field 1	Field 2	Field 3	Field 4	Field 5
RS1	5/5/2021	Xx	Xx	Xx	Xx	Xx
RS2	5/5/2021	Xx	Xx	Xx	Xx	Xx
….	…..	….	….	…	…	…

BUILD OR BUY OPTIONS: CART

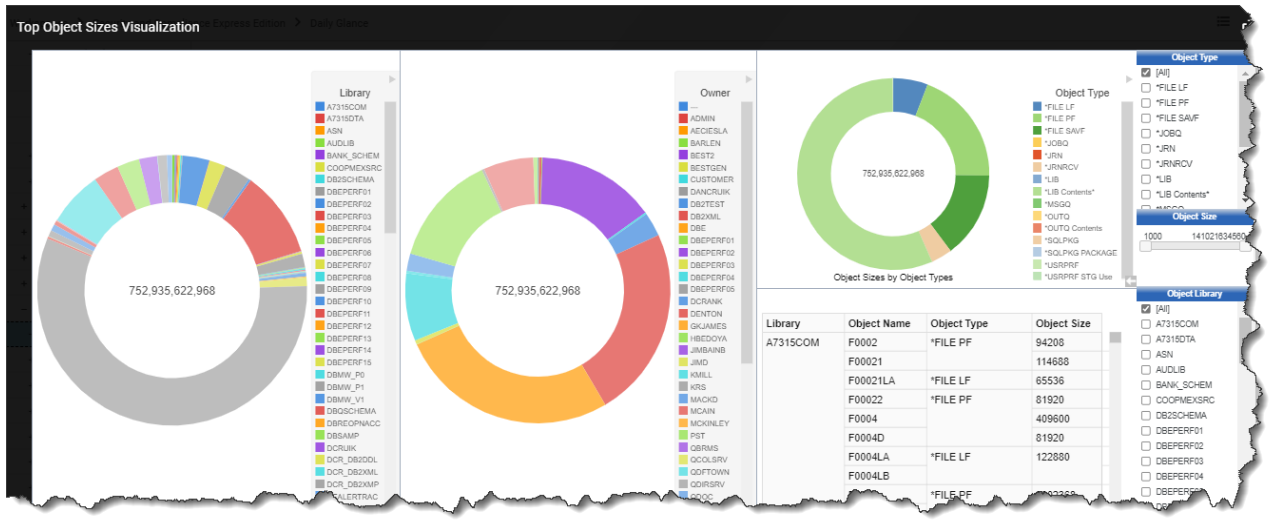
- **Compliance Automation and Reporting Tool (CART)**
  - Enterprise (multiple systems) Solution has been very well received for larger clients
  - **WHAT'S COMING SOON:** An Express Edition, single server solution
    - Load and Go
    - Contains not just Security Attribute oriented reports but many Systems Monitoring Reports based on IBM i Services too
    - Watch this space: Twitter @mckdrmoly or db2webqueryi.blogspot.com
    - Would require a minimum of Db2 Web Query Scheduler Edition
    - Sold as an IBM Lab Services solution (not part of an IBM i OS or LPP Offering)



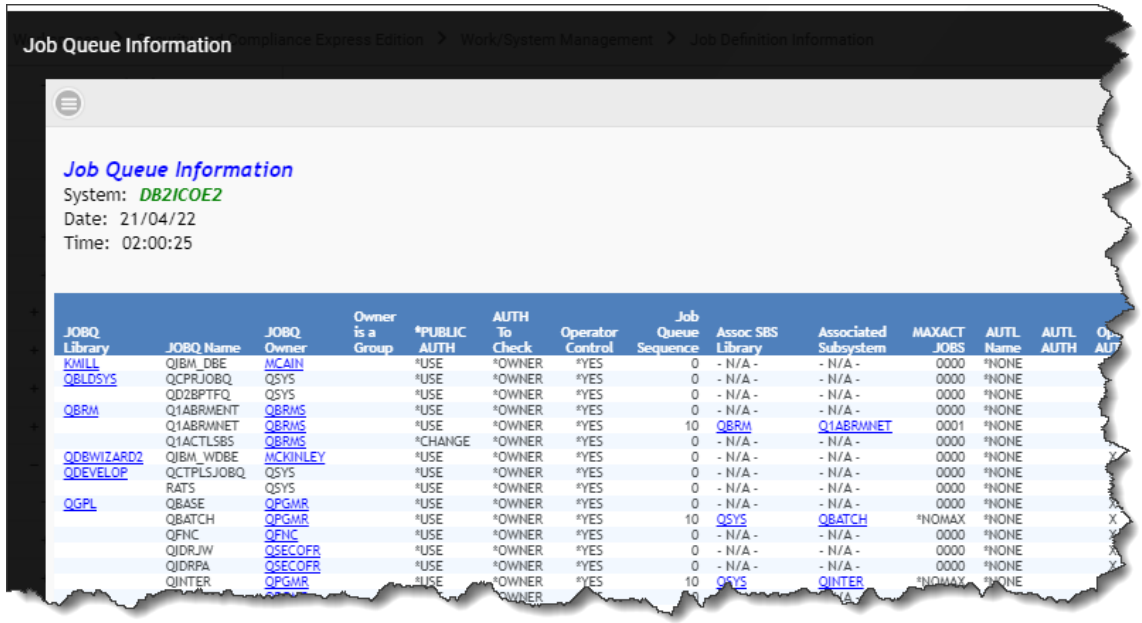
Compliance Automation and Reporting Tool (CART) Express Edition

IBM i Anywhere
IBM i Everywhere

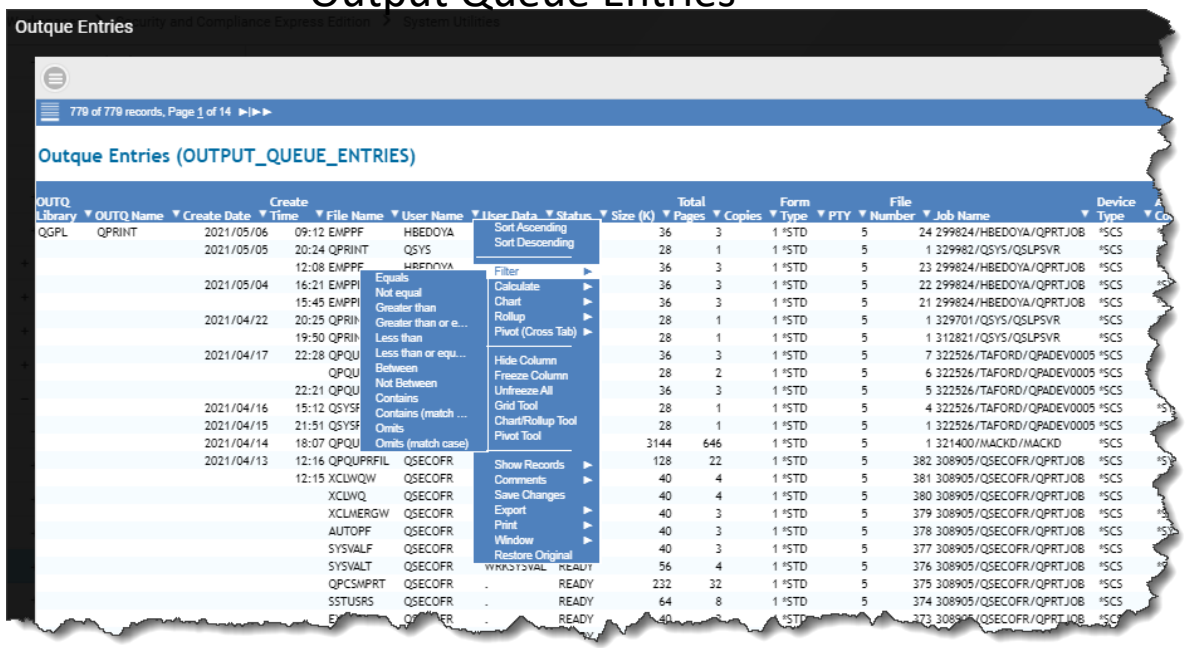
Object Size Dashboard



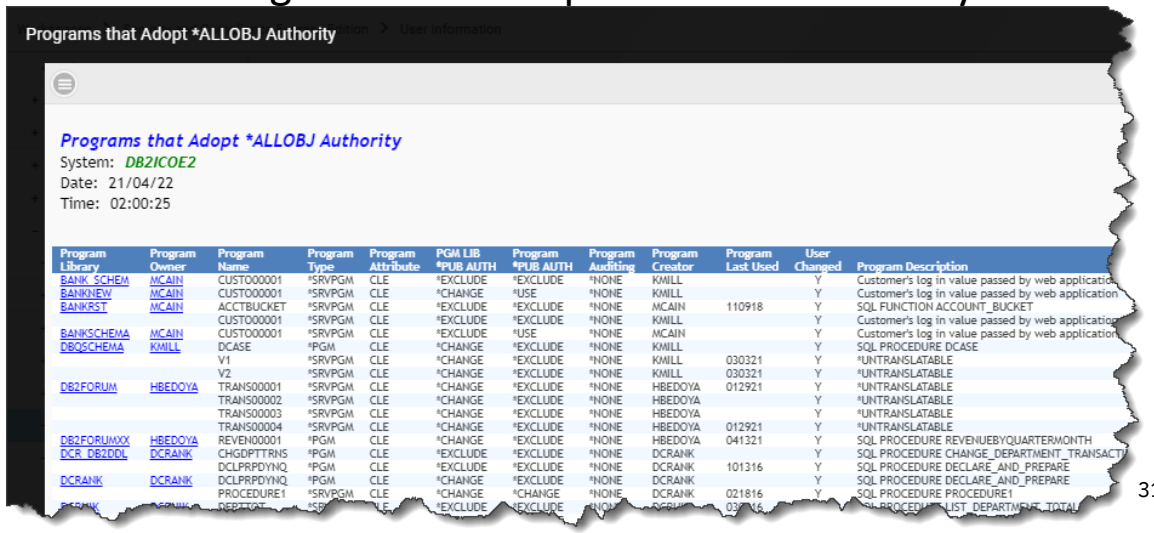
Job Queue Information



Output Queue Entries



Programs that adopt *ALLOBJ Authority



Where to Go For MORE Information on 2.3.0

2020 iSight

- New Features Guide available on the Db2 Web Query WIKI
  - http://ibm.biz/db2wqwiki take the DOCUMENTATION link
- Product Manual also on the wiki
  - http://ibm.biz/db2wqwiki take the DOCUMENTATION link
- Doug Mack blog posts
  - Db2webqueryi.blogspot.com
- EZ-Install Test Drive Tutorial
  - Included in the EZ-Install package
- EZ-Report
  - http://ibm.biz/db2wq-ezreport
- More links on next page

Additional Information

Db2 Web Query for i Website

– Ibm.biz/db2webqueryi

Db2 Web Query for i Wiki

– Ibm.biz/db2wqwiki

Db2 Web Query Getting Started Enablement:

– https://ibm.biz/db2ilabservices

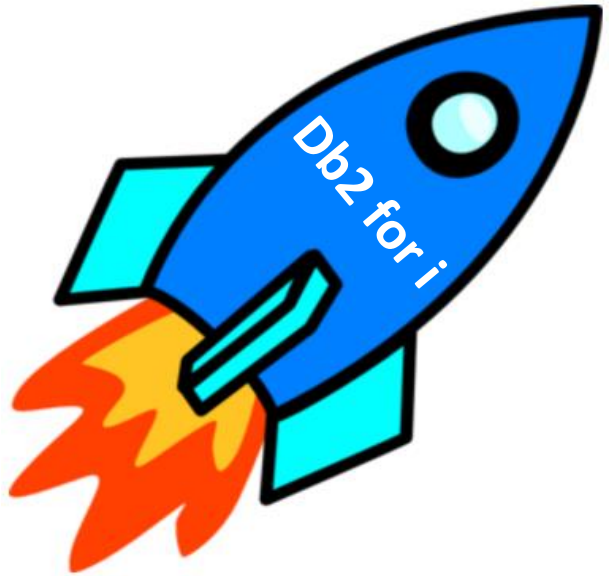
EZ-Install

– http://Ibm.biz/db2wqezinstall-info

Version 2.3.0 Video Demonstrations

– http://Ibm.biz/db2wq-230-videos

Follow Db2 Web Query guy Doug Mack on twitter at @mckdrmoly or blog http://db2webqueryi.blogspot.com/



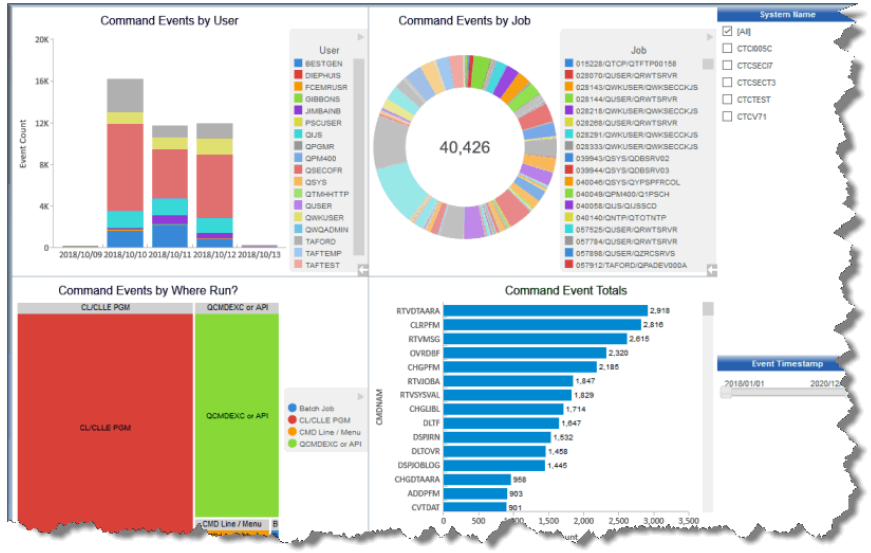
BACKUP

Db2 Web Query Solutions *for the Enterprise*

2020 iSight

Business Challenge

- Ensuring that IT systems are compliant with common industry security standards; maintaining system security can be challenging and labor-intensive
  - By the time you realize there's a problem, it may be too late



Compliance Automation Reporting Tool (CART)

- Delivered as an IBM Lab Services solution (not an IBM i LPP)
- Single view of enterprise security and systems information
- Daily monitoring of more than 1000 security attributes
- Compare to your own policy or industry best practices
- Reporting across all VMs and Servers
- Customizable scoring with security metrics (KRI) to evaluate risk
- Daily reporting and event / message monitoring
- Alerting and notifications
- **Leverages the reporting power of Db2 WEB QUERY!**

"I just want to arrive in the morning, get a cup of coffee, and have a view of what systems are in compliance and which are not."
– current CART client

http://ibm.biz/IBMiSecurity

CART: Provides "**out of the box**" assessment of systems for security compliance and exposures

- Sampling of security attributes monitored in CART

Profile Analysis:

- Special Authorities / Inherited Privileges
- Group Profiles / Ambiguous Profiles
- Default Passwords / Password Expiration
- Inactive Accounts
- *PUBLICLY Authorized Profiles
- Privately Authorized Profiles
- Initial Programs, Menus, and Attention Programs
- Command Line Access

Administration / Configuration:

- System Values / Audit Control Settings
- Invalid Signon attempts
- Work Management Analysis
- Service Tools (SST) Security
- PTF Currency
- Firmware levels, License Info, etc…
- DDM Password Requirements
- Registered Exit Points / Exit Programs
- Function Usage
- Library Analysis / *ALLOBJ Inheritance
- Customer Defined Events and Items
- CPU/DASD/Temp Addr Utilization and Availability
- Actionable Security Events (QAUDJRN) / QHST
- BRMS / MQ / Collection Services

Network Settings:

- Network attributes / Time Server
- NetServer Configuration
- TCP/IP servers / Autostart values
- Digital Certificate Expiration
- SNMP / SSH / SSL Configuration
- Listening ports / Network Encryption
- IP Datagram Forwarding
- IP Source Routing
- APPN Configuration (yes – for many it is still there)
- Server Authentication Entries