



Data Management

Simplifying Administration and Development with IBM Data Studio

August 27, 2009

ibm.com/db2/labchats



Executive's Message



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Distributed Data Servers and Data Warehousing
IBM





IDUG Update



Elizabeth Moore

President Elect, Board of Directors

International DB2 Users Group (IDUG)

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Featured Speaker





Lead Product Manager Data Studio

IBM





Agenda

- What is Data Studio?
- The "How To" Series
- Questions

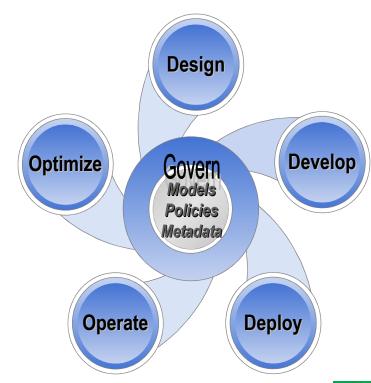




What is Data Studio?

An integrated Data Management environment

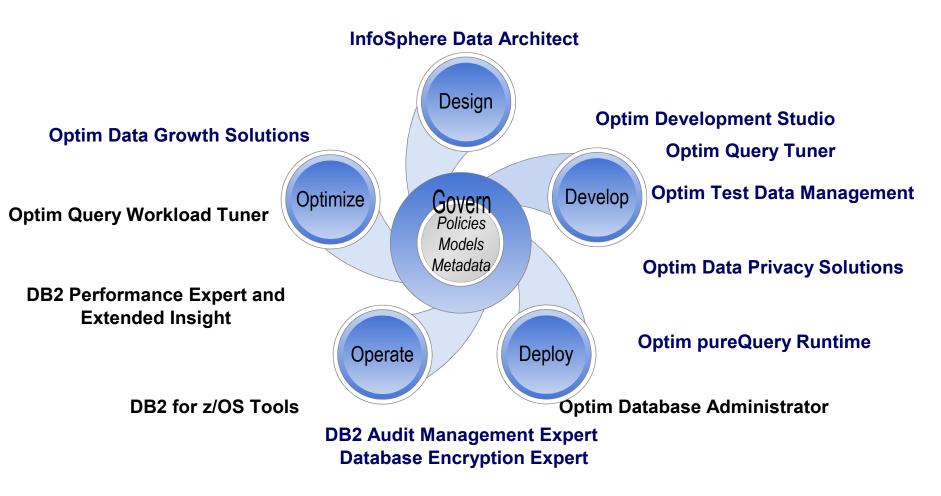
- Providing end-to-end data lifecycle management
- Facilitating cross-organizational collaboration by providing an integrated set of tools for different roles
 - Data Architect
 - Developer
 - Tester
 - DBA
 - Data Steward







The broadest range of capabilities for managing the value of your data throughout its lifetime



Data Studio - No Charge Offering







Where does **free** Data Studio fit in?

 A base product containing critical functionality from most of the charged Optim offerings

Data Studio

Administer Monitor & Tune Design Develop **ER Diagramming** Integrated query editor **Database Object Management** Alerts Data Distribution Viewer SQL & Java Routine + Debugger **Problem Instance Management Determination** XML, XML Schema Editors **Database Management Replication Monitor Data Web Services Privilege Management** Recommendations Visual Explain **Configuration Management Limited Historical Export / Import Data Back / Restore Database** Information **Generate DDL Reorg and Other Utilities** Visual Explain



Run DB2 Commands



Featured Speaker



Manas Dadarkar

Technical Lead Data Studio

IBM





How to download and install free Data Studio ...

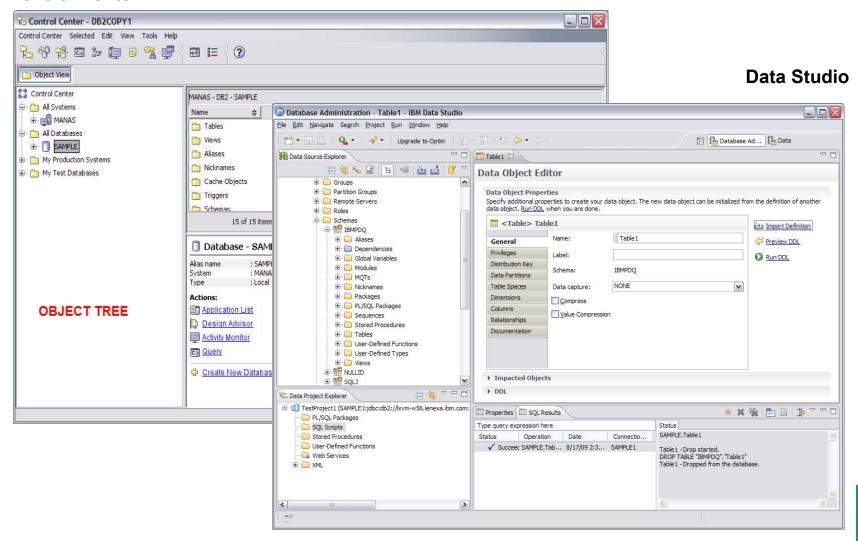
- Download Link: http://www-01.ibm.com/software/data/optim/data-studio/
- Two flavors
 - Standalone
 - Smaller footprint (~200 MB)
 - Simple installer
 - Subset of functionality compared to the IDE version
 - Work artifacts like workspaces can be shared with other Optim offerings
 - Integrated Development Environment (IDE)
 - Larger footprint (~800 MB)
 - Powerful Installation Manager allows shell sharing with other Optim offerings





How to navigate

Control Center

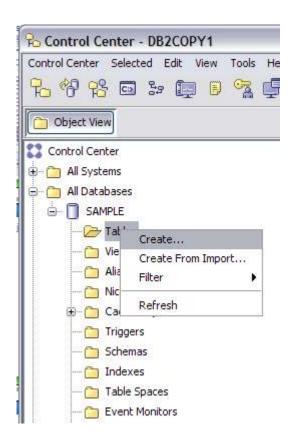


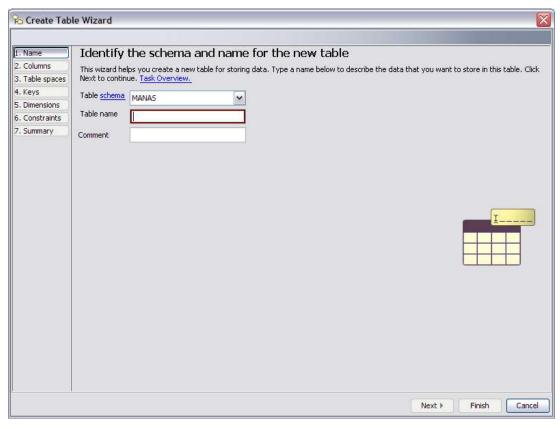




How to manage objects ...

Control Center



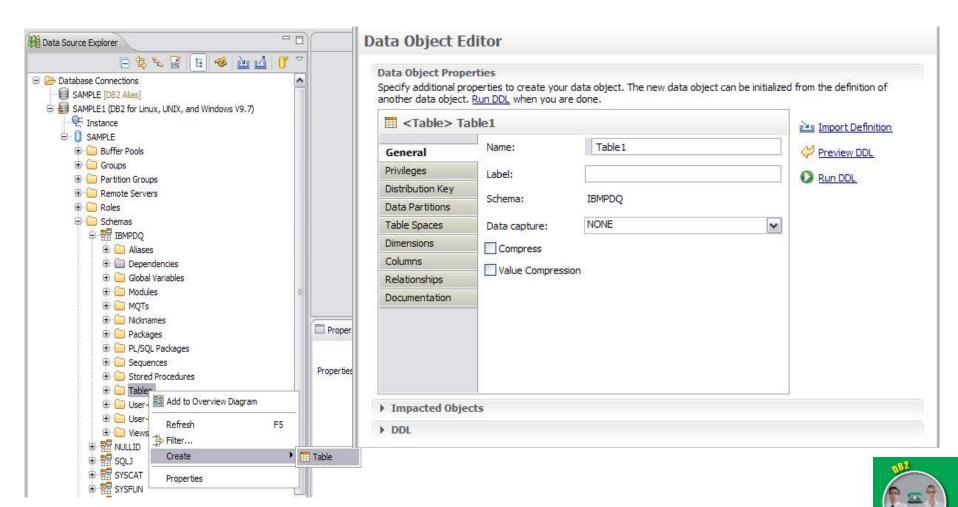






Data Source Explorer/Data Object Editor

Data Studio



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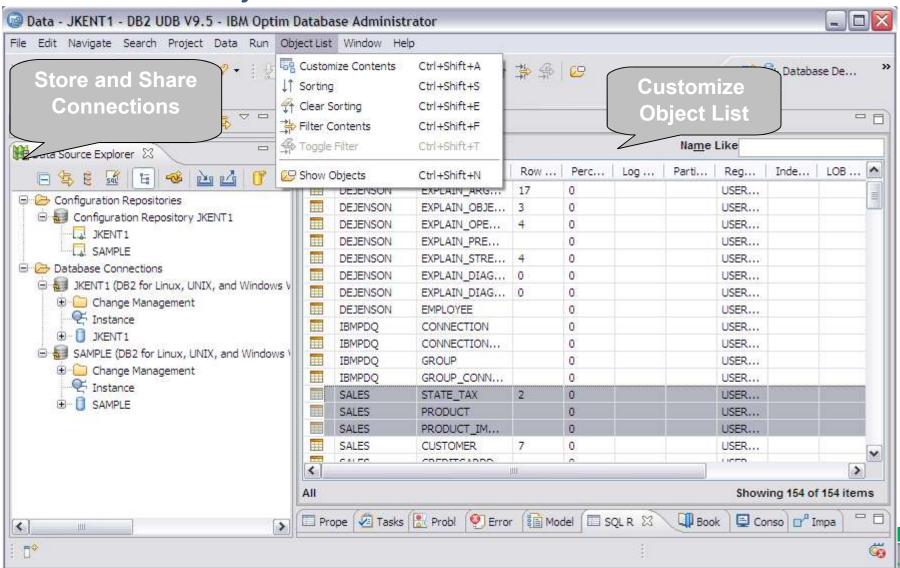
Tips about Navigation

- Need to work with large amounts of objects
 - Use the Object List View (flat view)
 - Easily view related objects
 - Customize object list including sorting and filtering on multiple columns





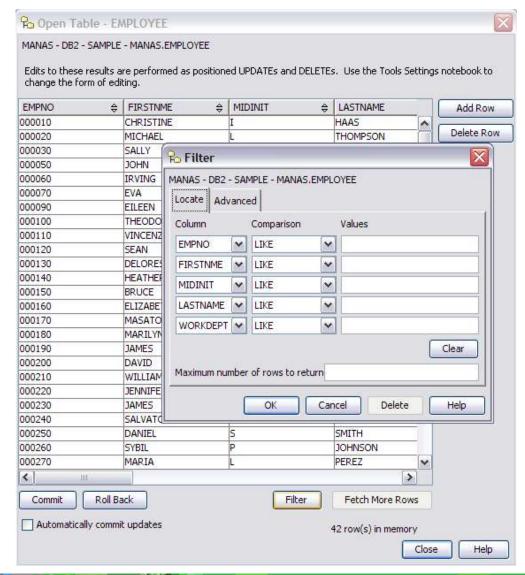
Data Studio Object Lists





How to manage data ...

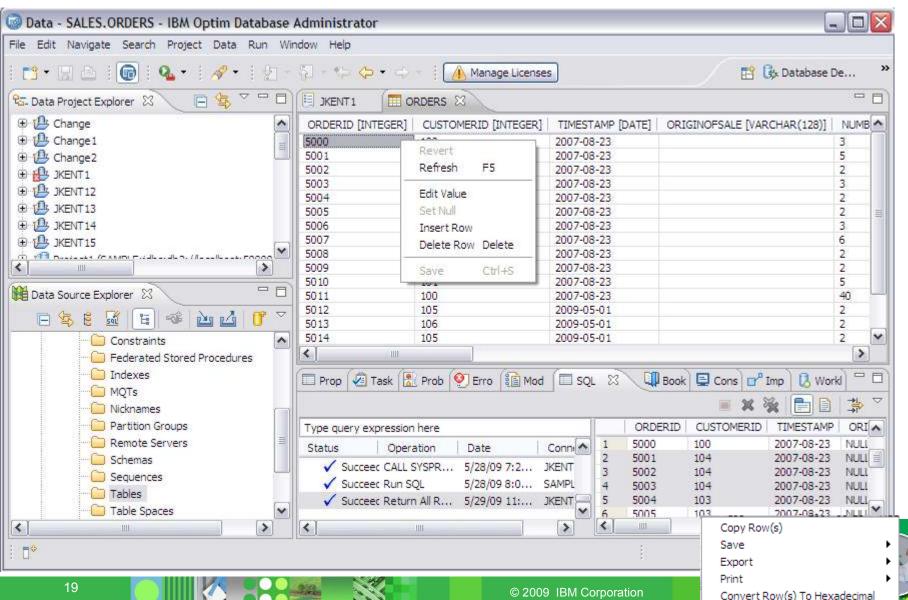
Control Center







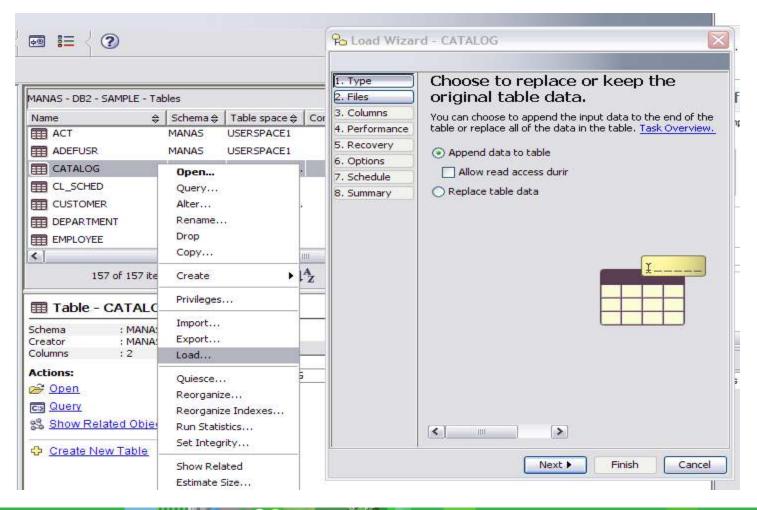
Data Studio Table Editor





How to run Utilities

Control Center

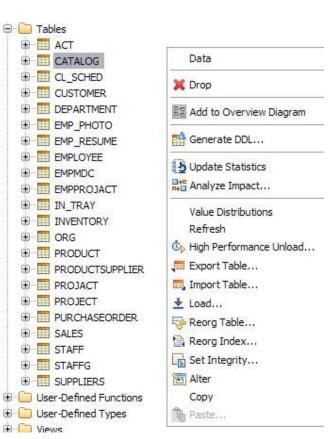


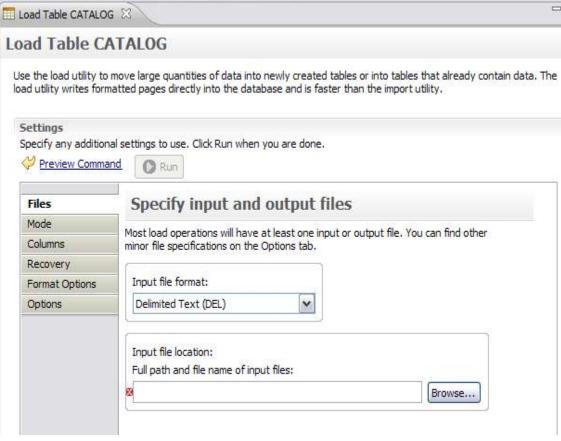




Data Source Explorer/Task Assistants

Data Studio

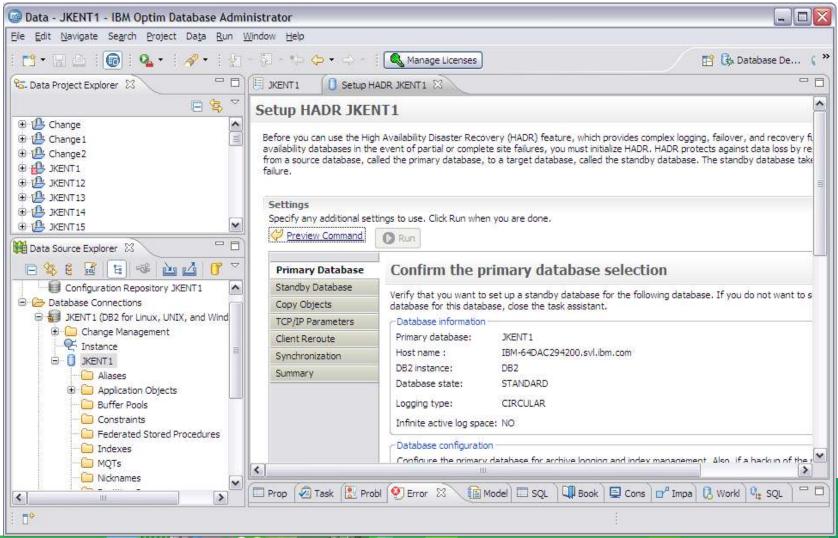






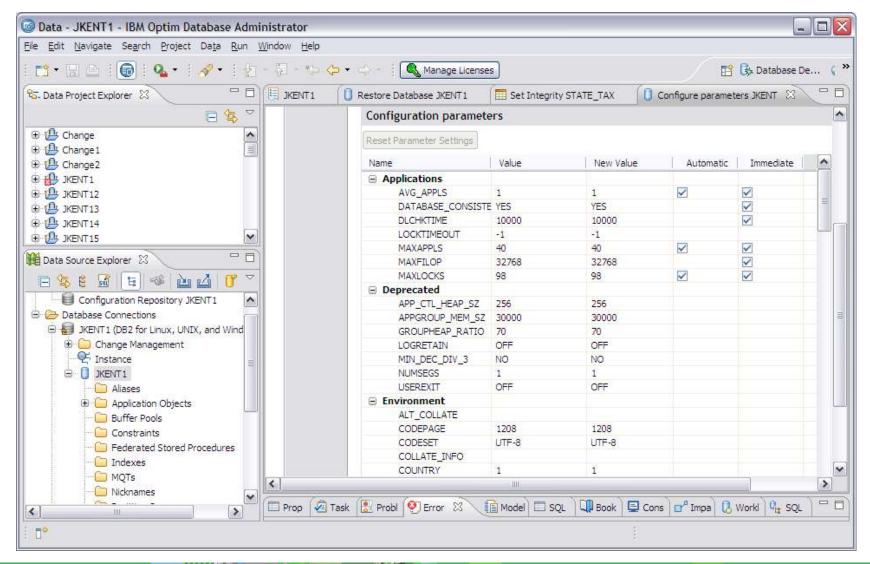


Data Studio – HADR Setup





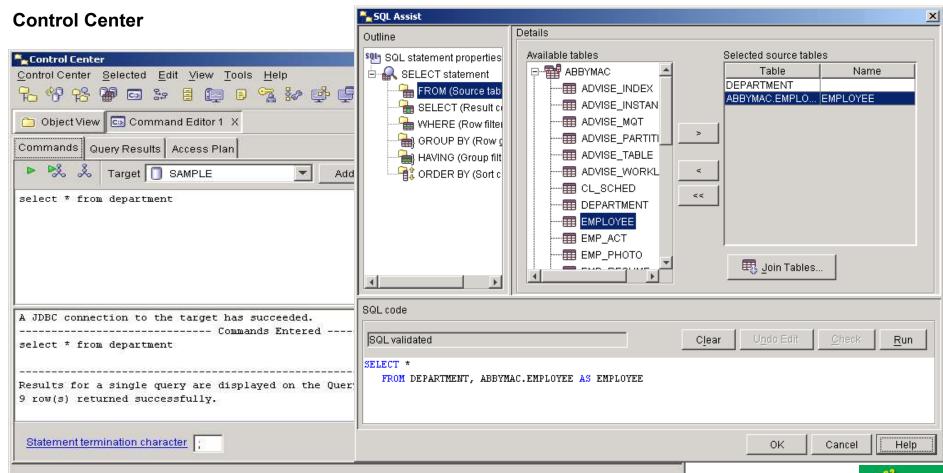
Data Studio – Database Configuration







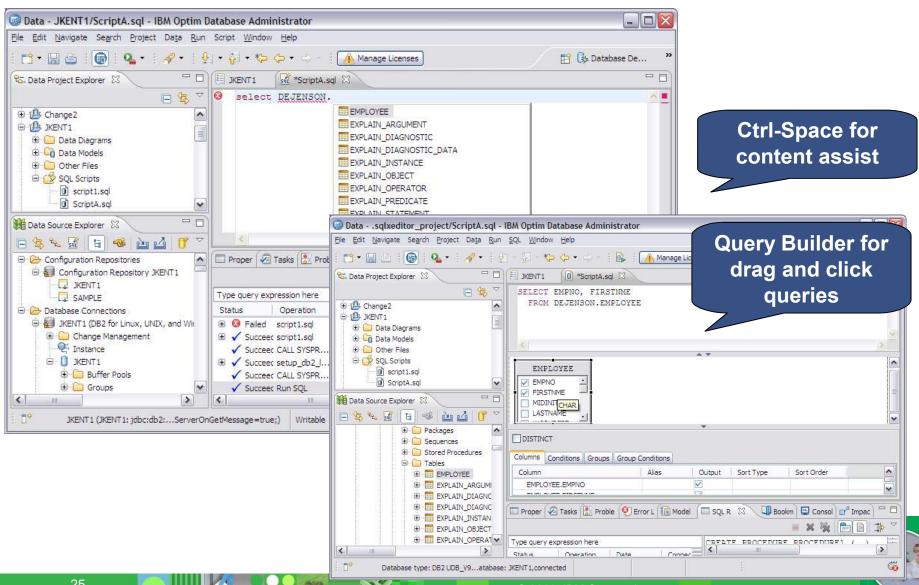
How to do SQL Development ...





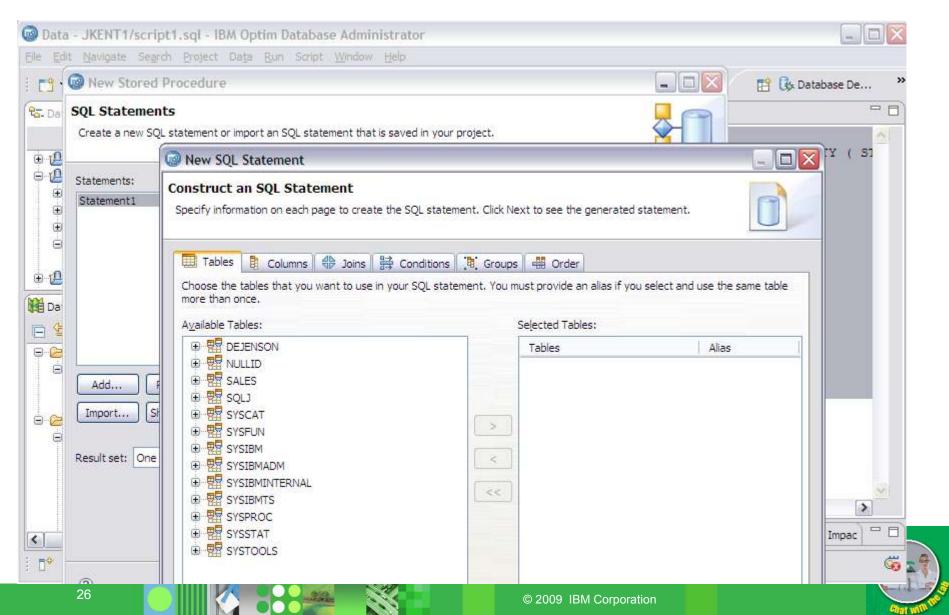


Data Studio SQL Editor





Data Studio Stored Procedure Wizard

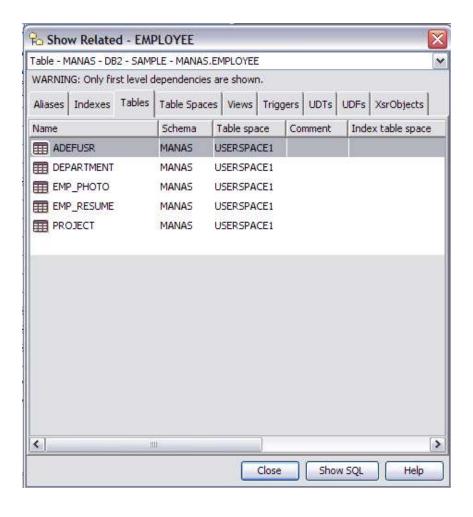




How to find relationships/value distributions ...

Control Center

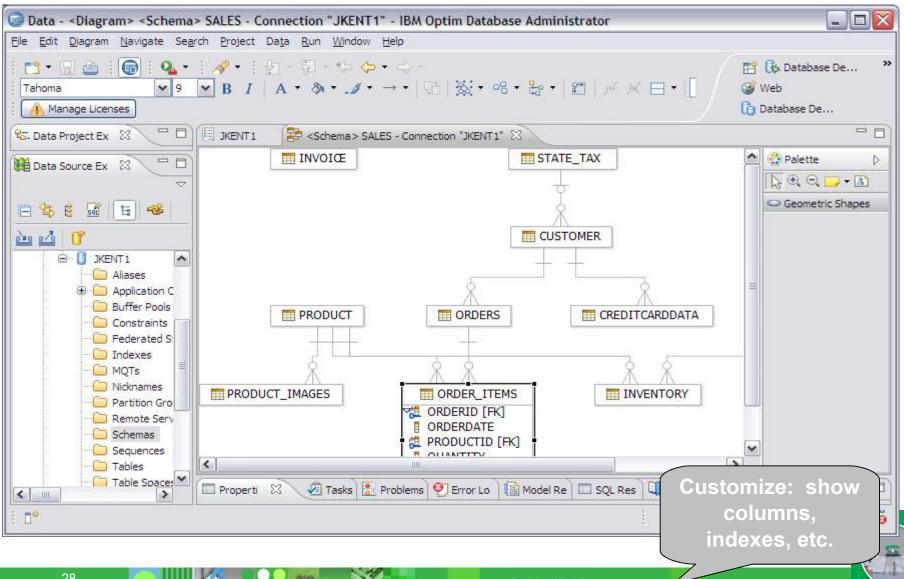






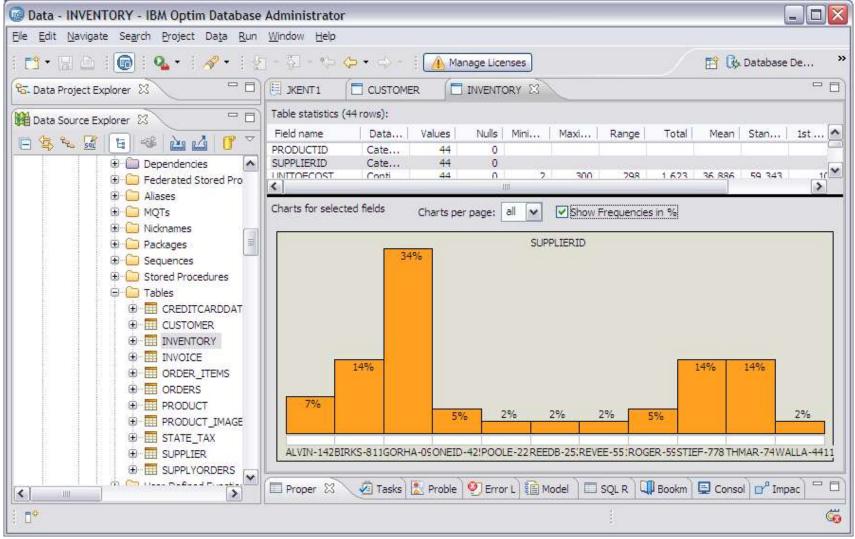


Data Studio Overview Diagram





Data Studio Column Values

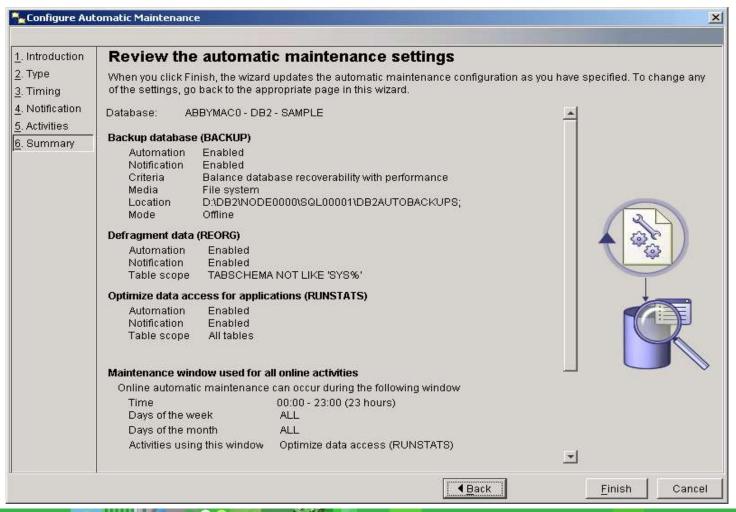






How to configure Automatic Maintenance ...

Control Center

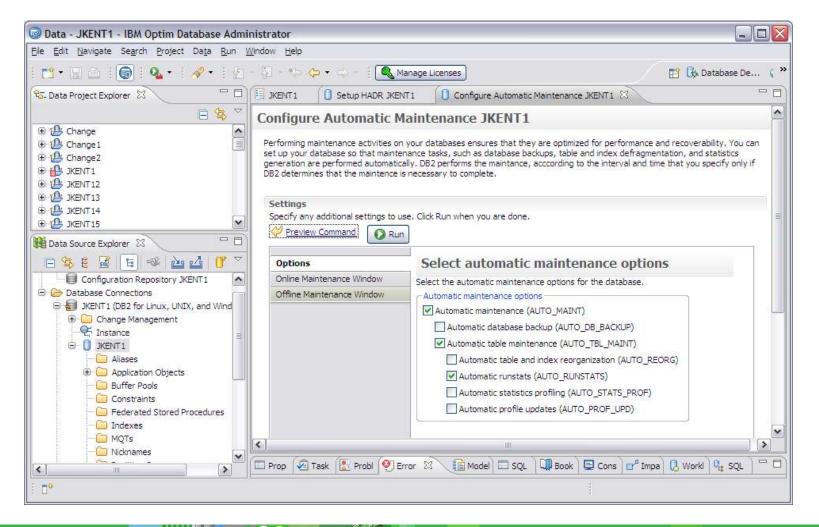






Data Studio – Setup Automatic Maintenance

Data Studio

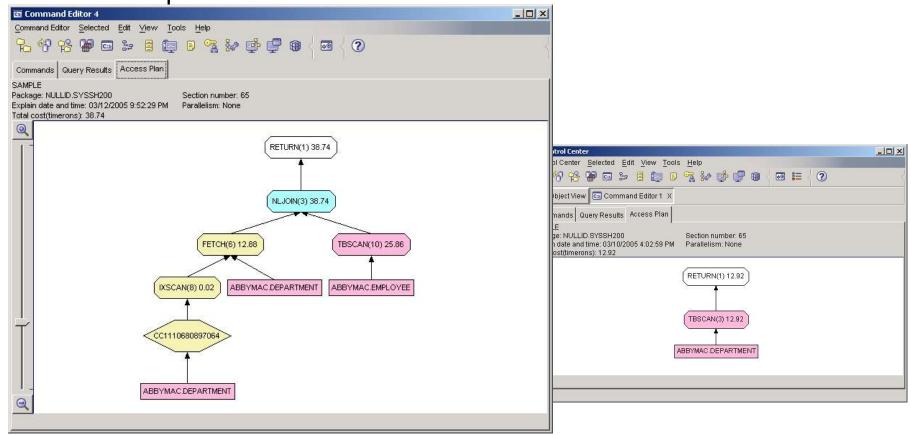






How to do Query Tuning ...

 In Control Center, you used Visual Explain analyze queries and look at access plans

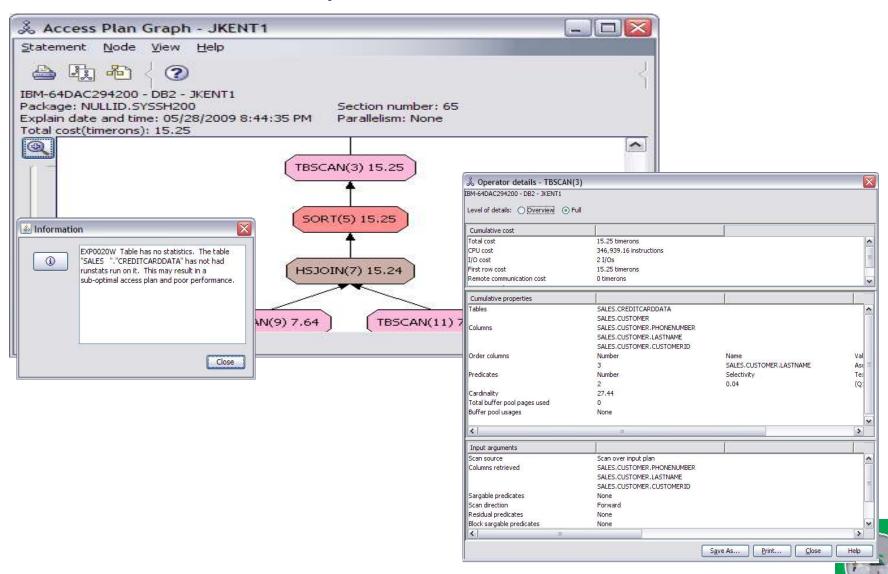


- SELECT EMPLOYEE.LASTNAME, DEPARTMENT.DEPTNAME, DEPARTMENT.DEPTNO
- FROM ABBYMAC.DEPARTMENT AS DEPARTMENT, ABBYMAC.EMPLOYEE AS EMPLOYEE
- WHERE DEPARTMENT, DEPTNO = EMPLOYEE: WORKDEPT AND DEPARTMENT, DEPTNO = 'D11'
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Data Studio Visual Explain

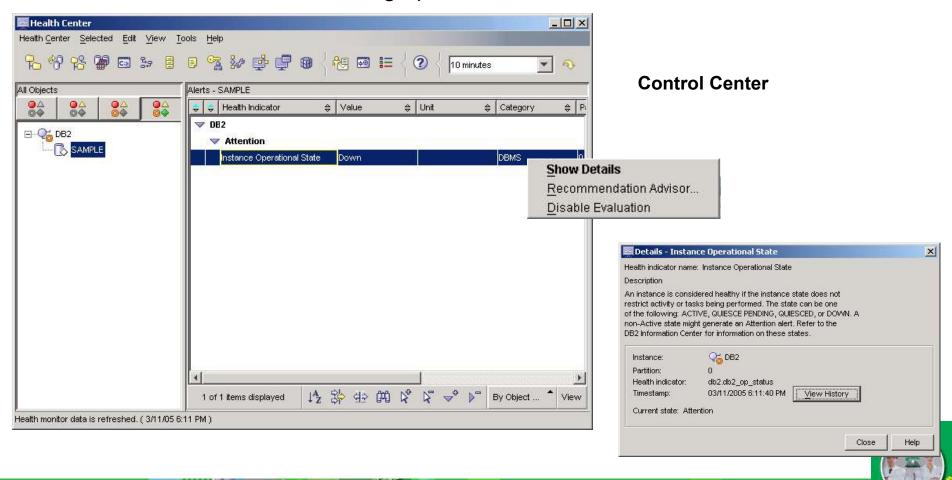


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How to monitor the health of the server ...

 After a health alert has occurred on one or more DB2 objects, you can display the details of the alert and bring up the Recommendation Advisor.





Data Studio - Administration Console

Heatchart - Overall Health Status



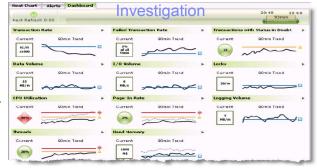
Where are the most important hotspots that need my attention?



Administrator



Dashboard - Adhoc



Something doesn't seem quite right. I wonder what's happening?

Recommendations – Root Cause Analysis



Guide me to the root cause and help me fix it properly; I need to know all the revelant info to make the best decision





What happened when I was out for lunch? ... Away for weekend?









functionality from the priced offerings

ODS → **Optim Development Studio**

ODA → **Optim Database Administrator**

OQT → **Optim Query Tuner**

IDA → InfoSphere Data Architect





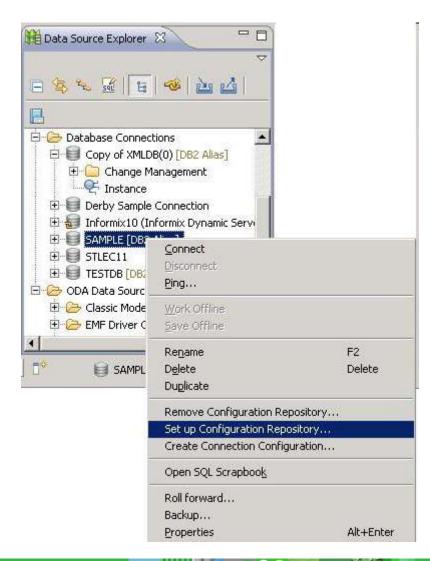
Navigation (In ODA, ODS and OQT)

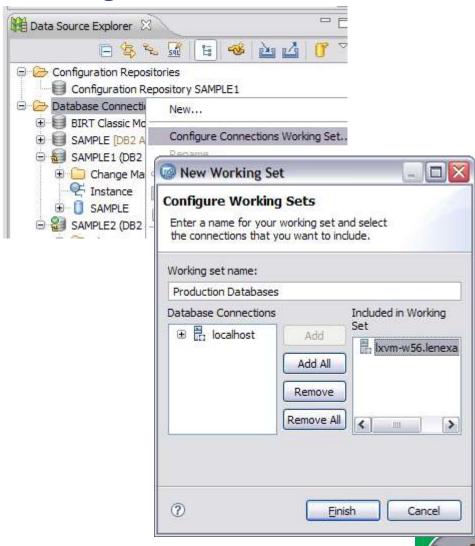
- Need to share connectivity information with various workstations
 - Create Configuration Repository to store connection information
 - Export to file and share with team members
- Need to group my database server connections for easier access
 - Create a Working Set containing the connections you are working with.





Configuration Repositories/Working Sets

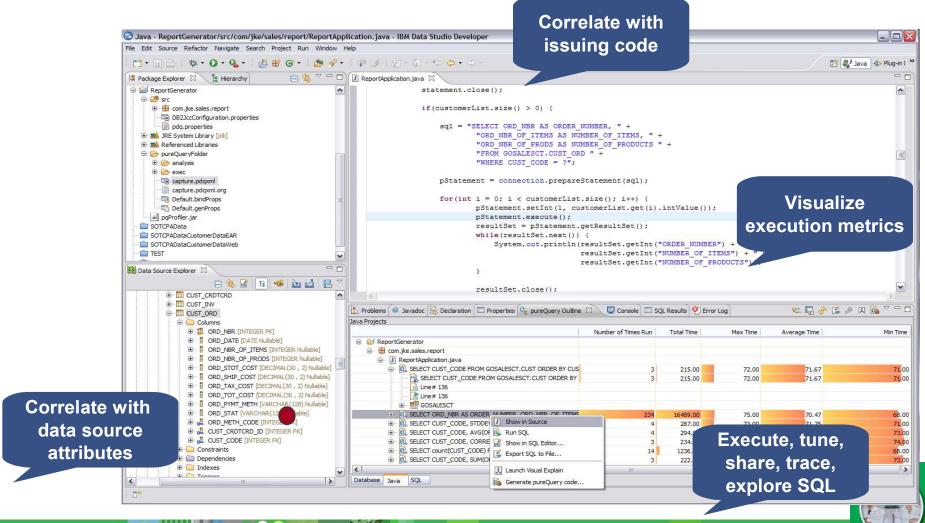






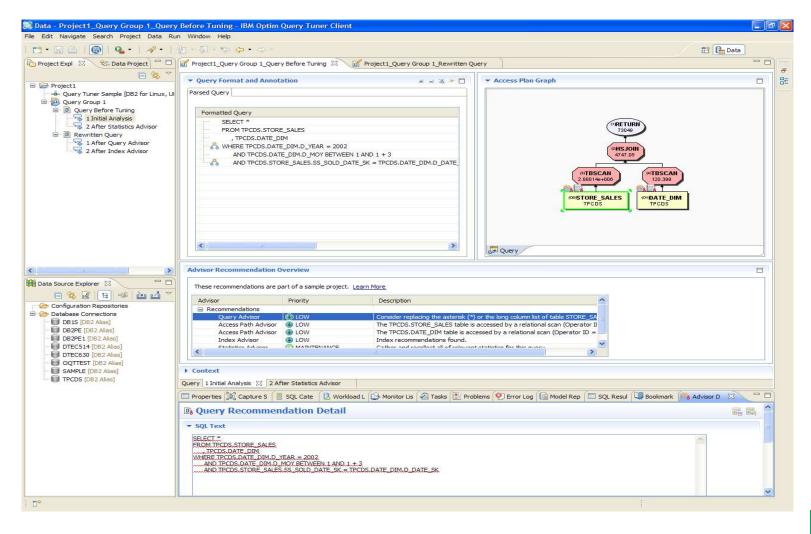
SQL Development (In ODS)

SQL Outline View





Query Tuning (In OQT)

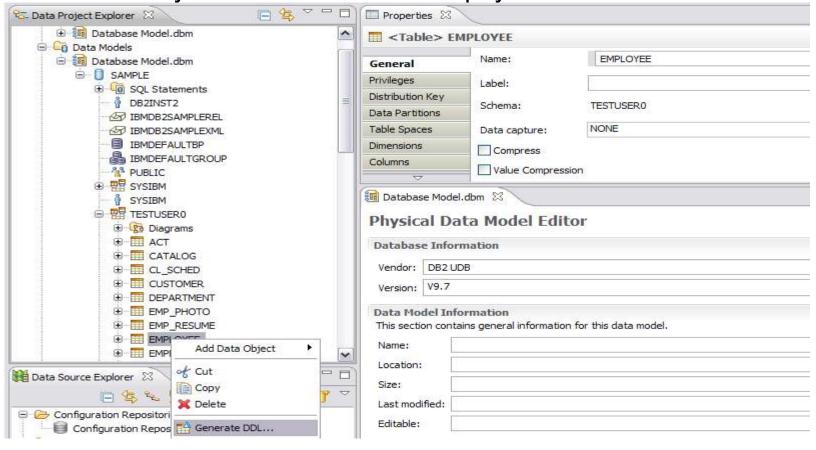






Design (In IDA)

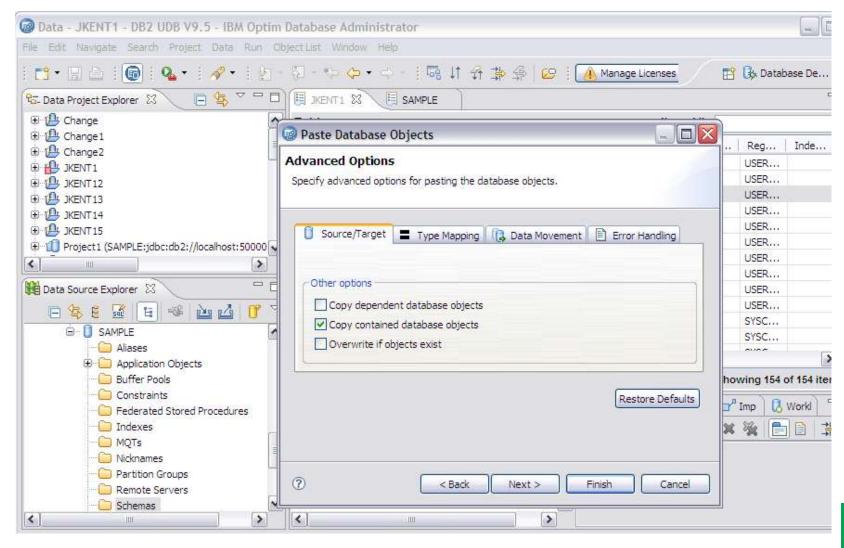
 Use InfoSphere Data Architect to create or work with existing logical or physical data models. Deploy the model by having IDA automatically create the DDL for the physical data model.







Data Management – Copy/Paste (In ODS)







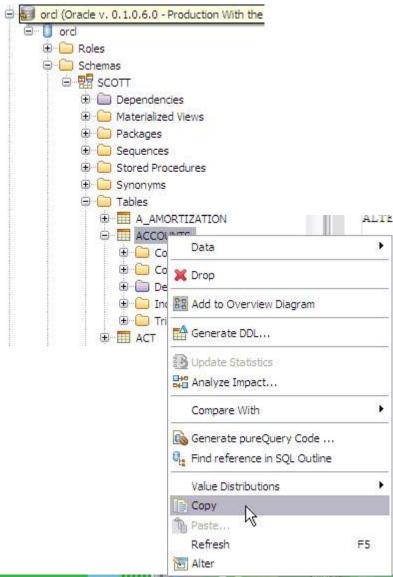
What's new for DB2 9.7?

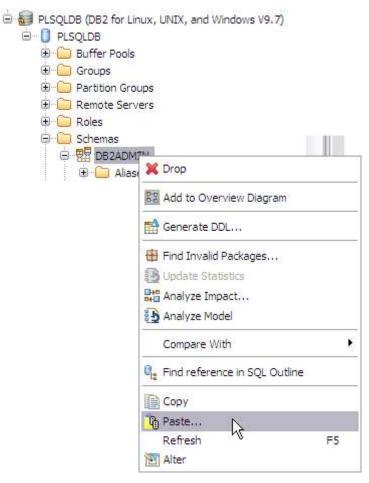






ODS Data Object Copy from Oracle to DB2









Support for DB2 Version 9.7 for Linux, UNIX, and Windows PL/SQL

- You can create PL/SQL modules and new data types for PL/SQL modules:
- Row data type
 - A structure composed of multiple fields each with their own name and data type that you can use to store the column values of a row in a result set or table.
- Array data type
 - A structure that contains an ordered collection of data elements, in which each element can be referenced by its ordinal position in the collection.





Questions





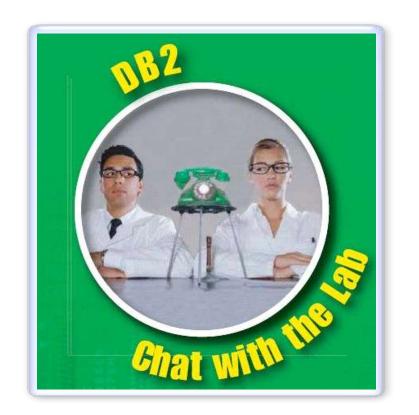






Thank You!

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Thank you for attend.

