

Agenda

- What is IBM Data Studio?
- Creating database connections
- Creating a data project
- Creating a web service
- Deploying a web service





What is Data Studio?

- Eclipse-based tool
 - Integrated Development Environment (IDE)
 - Full release or plug-in (Eclipse 3.2.x)
 - Available since October 30, 2007
- Data Server supported
 - IBM Informix Dynamic Server (IDS), versions 9.x, 10.0, 11.10
 - DB2 LUW, versions 8, 9.1, 9.5
 - DB2 for i5/OS, versions 5R2, 5R3, 5R4
 - DB2 for zOS, versions 7, 8, 9
 - Derby, versions 10.x

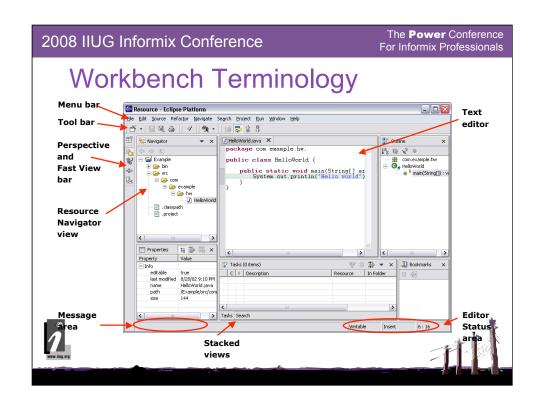




What is Eclipse?

- · Developed by IBM
- Open-Source, managed by eclipse.org
 - Open-source community
- An open extensible Integrated Development Environment (IDE)
 - Integration platform for tools
 - Java development environment
- · Expanded through plug-ins
 - Subjects: Application development, editors, modeling, performance and testing, programming languages





IBM Data Studio – Key Benefits

Increase productivity for all roles throughout the data life cycle

- Slash development time up to 50% with an integrated data management environment Promote collaboration across roles to optimize data server and application performance
- Accelerate Java development productivity with new pureQuery data access
- Simplify development of applications implementing industry specific XML standards
- Monitor data server operation & performance anywhere, anytime from a Web browser

Simplify and speed development of new skills

- Learn once, use with all supported data servers
- Easy-to-use and integrated user interface, compatible with Rational Software Development Platform
- Extensible with Eclipse plug-ins to customize the environment for each team member

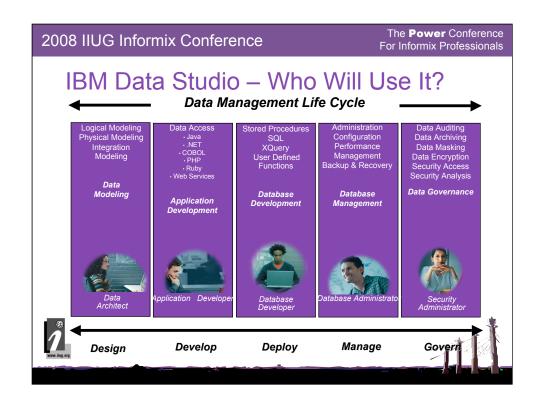
Accelerate data as a service for Service Oriented Architecture

- Develop and publish data as a Web service without programming
- Info 2.0 Ready support for Web 2.0 protocols and format



An Integrated data management environment





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IBM Data Studio 1.1 - Features

- ER Diagramming Visualizer
- Data Distribution Viewer
- Integrated Query Editor
- SQL Builder
- XML Editor
- XML Schema Editor

- · pureQuery for Java
- · Data Web Services
- Object Management
- Data Management
- Security Access Controls
- Project Management



More to come!

Future feature: Visual explain

Data Studio Versions

IBM Data Studio Developer

- Everything in the free download, plus
- Enhanced tools for binding pureQuery applications
- Advanced pureQuery runtime for static SQL development and test
 - More to come in 2008...
- Priced at \$795/Authorized User

IBM Data Studio pureQuery Runtime

- Accelerates performance of Java applications
- Simplifies deployment for Java application
- Improves data server management, governance, and application response for IBM Data Servers
- More to come in 2008.. Priced at \$22/Processor Value Unit*

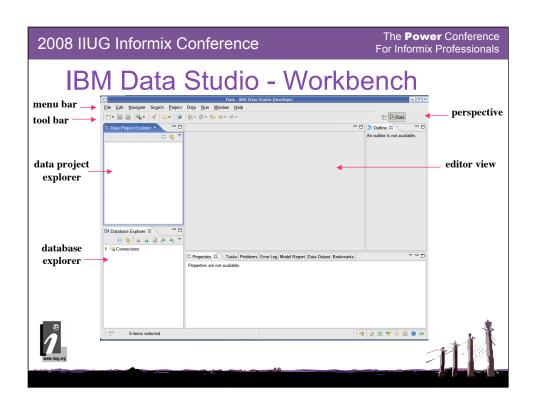
IBM Data Studio

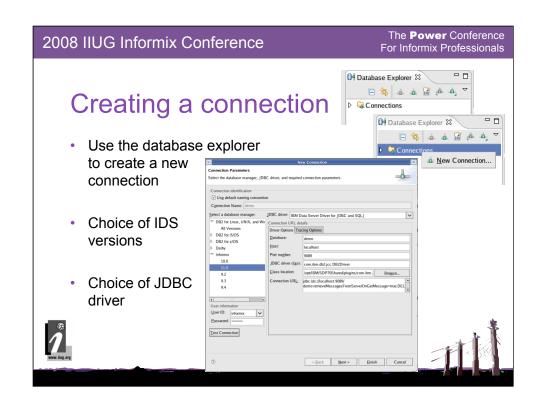
- Free non-warranted download
 - · Includes standard pureQuery runtime and tools
 - Does not include advanced pureQuery tools/runtime for static SQL binding

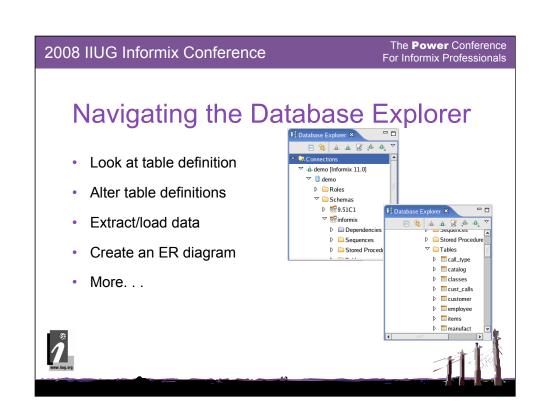
Rational Data Architect

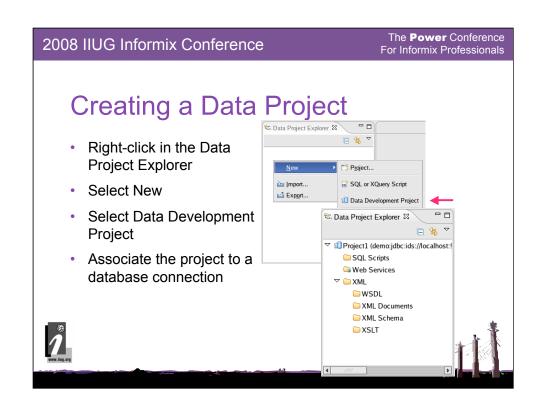
- Robust data modeling, plus
- Heterogeneous support of databases beyond the DB2 family.
- Mapping, compare and synchronize
- Naming Standards, Integration with existing Rational suite of products. Priced at \$5,150/Authorized User

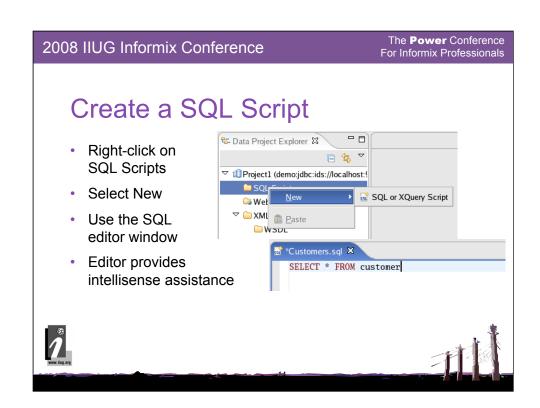


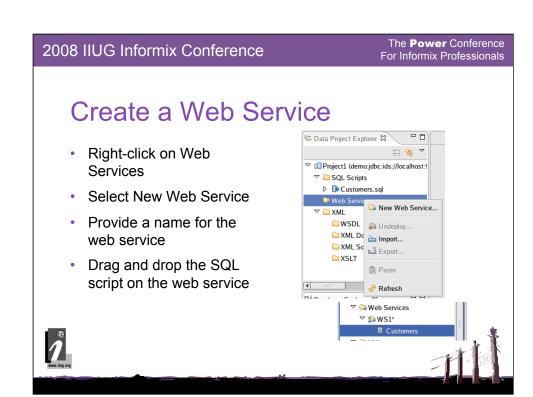


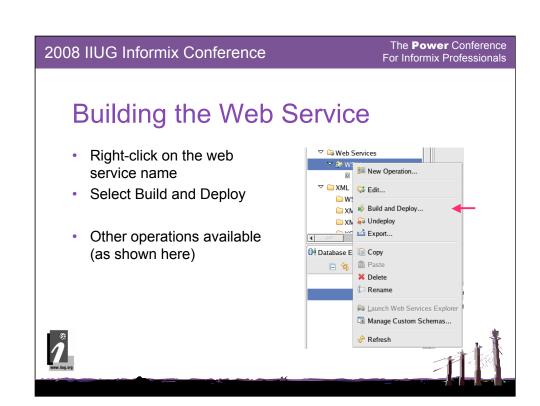


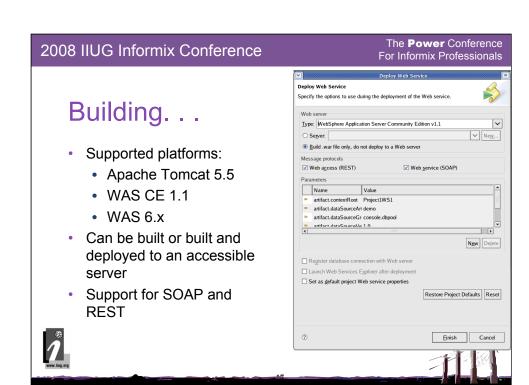










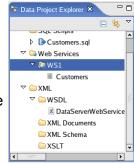


Web Service...

- Also generates the WSDL
- Web service packaged as a WAR file
- Assumes a database pool with the name of the database connections attached to the project
- WAR file found in the workspace:

Project1/DataServerWebServices/WS1/Project1WS1.war



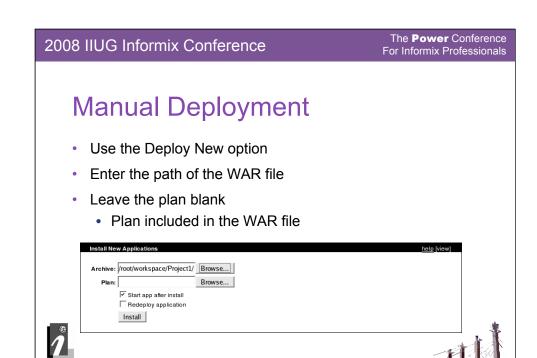


Manual Deployment Preparation

- Example for WASCE
- May have to install the IDS JDBC driver
- Could install the IBM Data Server JDBC driver
- Create a Database pool in WAS CE







Accessing the Service

- · Web service definition
 - http://localhost:8080/Project1WS1/wsdl
- SOAP interface
 - http://localhost:8080/Project1WS1/services/WS1
- REST interface
 - http://localhost:8080/Project1WS1/rest/WS1/Customers

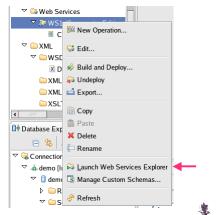




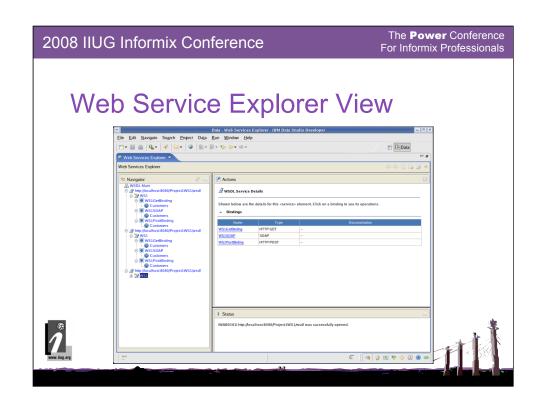
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Web Service Explorer

- Available when deploying through IBM Data Studio
- Opens a browser window to a menu selection
- Gives access to the defined methods
 - SOAP, GET, POST
- See the result of web services calls







DEMO

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DEMO

Conclusion

- It is easy to create data-centric web services for IDS
- IBM Data Studio is a great environment to manipulate database objects
- Download Data Studio Now! http://www.ibm.com/software/data/studio/







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Session ###

Using the New IBM Data Studio 1.1 to Write IDS Web Services

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