

Information On Demand Manage Data Over Its Lifetime

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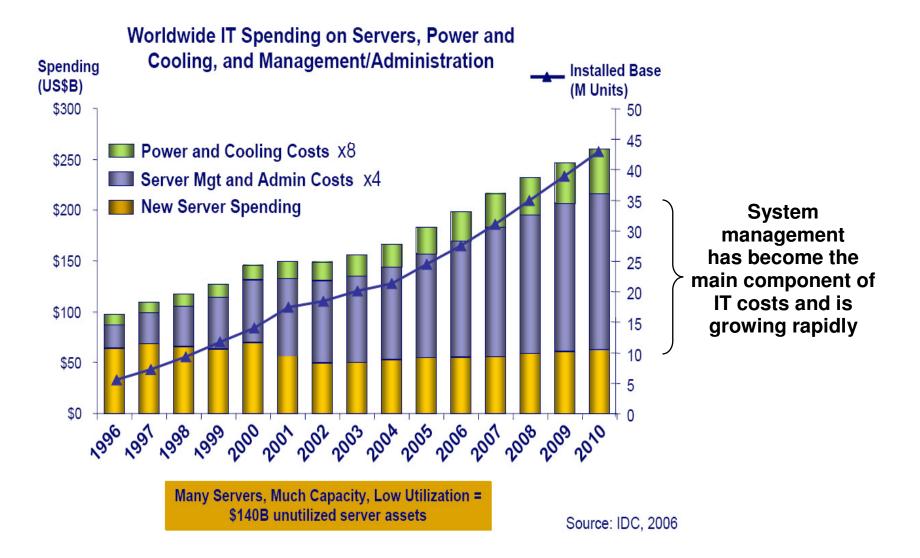


Agenda

- Tooling Challenge
- Naming
 - DB2 for z/OS tools, Optim, Data Studio, InfoSphere
- What's Integrated Data Management?
- DB2 for z/OS IDM Scenario
- Data Governance

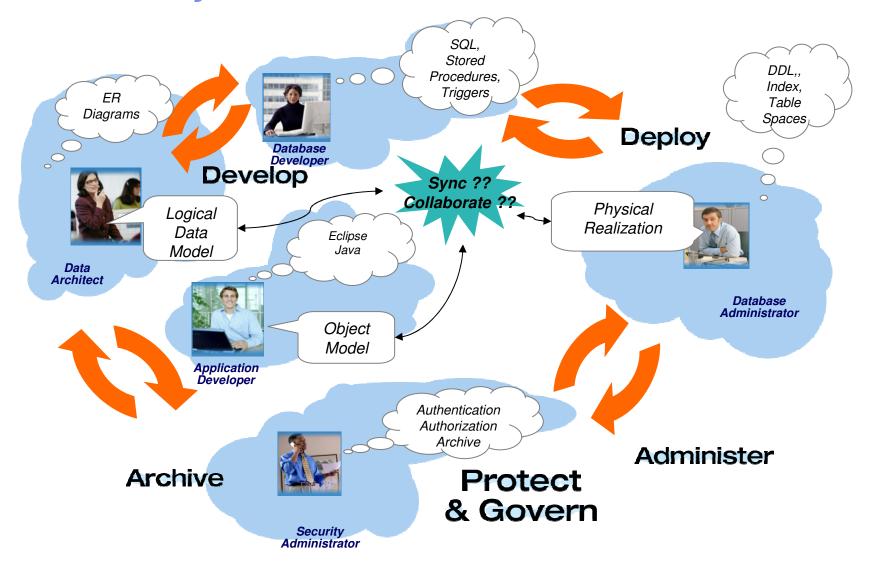


System Management Dominates Cost





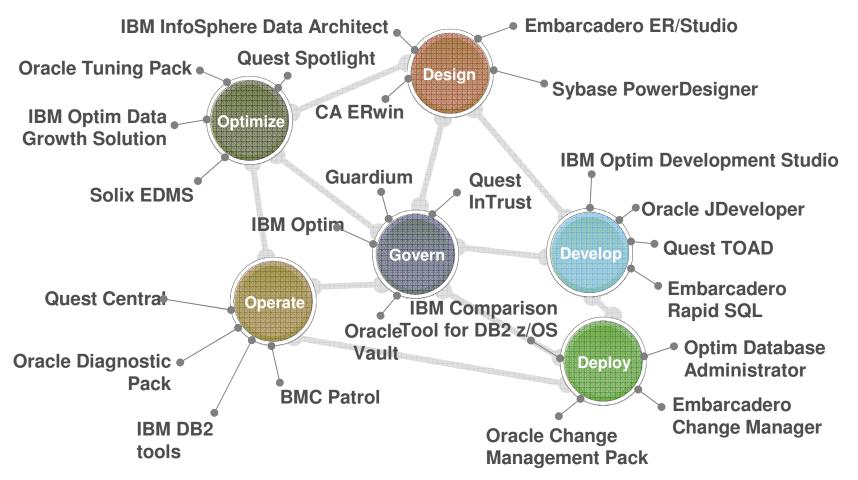
Data Life Cycle Pain Points





Tool Chaos Consumes IT Spend and Erodes Efficiencies

A Collection of Disparate, Single-Purpose Products



Focus on ENTERPRISE efficiencies: independent database



What Do Businesses Need?

An integrated environment to span today's flexible roles

Enable alignment across the lifecycle

- Manage by intention
- Share policies with downstream tasks

Improve individual and team productivity

- Increase automation
- Facilitate collaboration
- Provide context-aware capabilities

Optimize performance

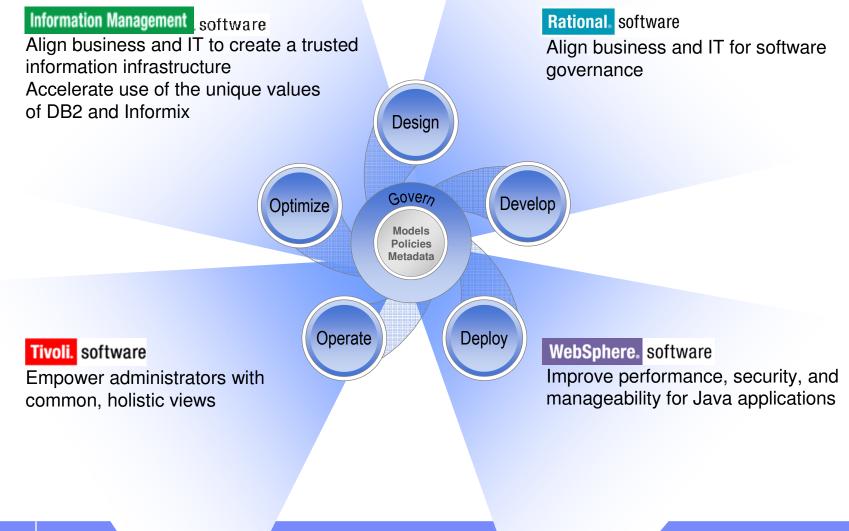
- Embed best practices into solutions
- Provide expert advice to increase skills
- Improve resource utilization





Integrated Data Management

Integral to a complete system for delivering business solutions





What's in a Name?

DB2 and IMS Tools:

- z/OS tailored solutions for lowering TCO for DB2 and IMS

Data Studio packages:

 No charge offerings for improving developer and DBA productivity for DB2 and Informix

Optim Solutions:

- Managing diverse data across its lifetime

InfoSphere Solutions:

- Establishing, governing, and delivering trusted information



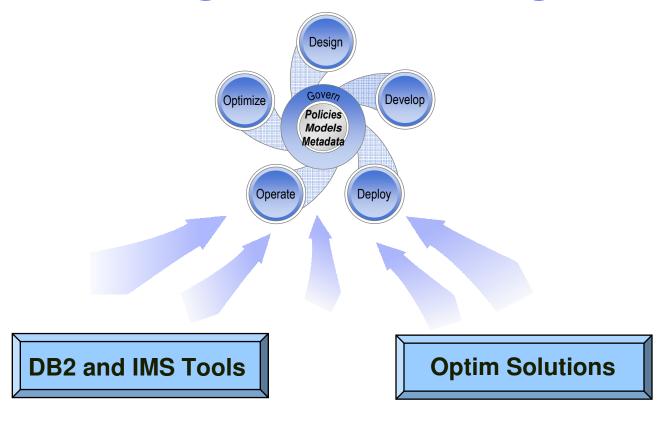
Products Renamed Reflect Integrated Data Management Strategy

Prior Product Name	Renamed Products
Rational Data Architect	InfoSphere Data Architect
Data Studio Developer	Optim Development Studio
Data Studio pureQuery Runtime for Linux, UNIX and Windows	Optim pureQuery Runtime for Linux, UNIX, and Windows
Data Studio pureQuery Runtime for z/OS	Optim pureQuery Runtime for z/OS
Data Studio Administrator for DB2 for Linux, UNIX and Windows	Optim Database Administrator for DB2 for Linux, UNIX, and Windows
DB2 Optimization Expert	Optim Query Workload Tuner for DB2 for z/OS

Information	Management
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Solutions for Integrated Data Management



DB2/IMS Backup & Recovery Solution DB2/IMS Utilities Management Solution IMS Transaction Management Solution DB2/IMS Data Governance Solution DB2/IMS Application Management Solution DB2/IMS Performance Management Solution



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DB2 for z/OS Tools Portfolio

Application Management	 Database Administration DB2 Administration Tool DB2 Object Comparison Tool DB2 Object Comparison Tool DB2 Administration Toolkit SAP Edition DB2 Storage Management Utility DB2 Cloning Tool Optim Database Administrator Performance Management OMEGAMON XE DB2 Performance Expert OMEGAMON XE DB2 Performance Monitor DB2 Buffer Pool Analyzer DB2 Query Monitor DB2 Performance Toolkit SAP Edition Optim Query Tuner & Workload Tuner Optim Development Studio/pureQuery DB2 Performance Expert/Extended Insight 	 Backup and Recovery Application Recovery Tool for IMS and DB2 Databases DB2 Archive Log Accelerator DB2 Change Accumulation Tool DB2 Log Analysis Tool DB2 Object Restore Tool DB2 Recovery Expert Data Governance DB2 Audit Management Expert Data Encryption for DB2 and IMS IBM Optim Data Growth IBM Optim Test Data Management IBM Database Encyrption Expert InfoSphere Information Server InfoSphere Classic Data Event Publisher InfoSphere Classic Federation Server InfoSphere DataStage InfoSphere Replication Server DataMirror
*Available on System z only	*Available on System z & DB2 LUW	*DB2 LUW only



Integrated Data Management Portfolio Strategy

- Support for parallel development / administration models
 - z/OS-specific
 - 3270-based user interfaces
 - Generation of JCL for job submission
 - Emphasis on rich z/OS function
 - Cross-platform
 - Web-based and Eclipse-based user interfaces
 - Stored Procedures
 - Emphasis on heterogeneous database support

Clients may have a need to support both of these models

Provide cross-platform support and tool integration to simplify development and administration

- Common design and development with for LUW and z/OS with InfoSphere Data Architect and Optim Development Studio
- OM/PE and Query Monitor integration with Optim Query Tuner
- Common z/OS and LUW UI in plan for Optim Test Data Management, Data Privacy, and Data Growth Solutions
- Common Extended Insight end-toend database monitoring leveraging OM/PE in plan
- Continued investigation into integration opportunities

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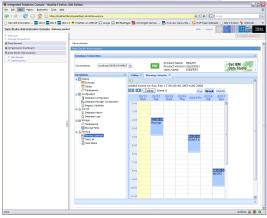
User Interface Directions

Data Studio and Optim

Develop and Deploy

- Design and Development
- Configuration
- Object Management
- Change Management
- Automation Planning
- Data Governance

Web UI





Operate

- Monitoring
- Automation Management
- Reporting

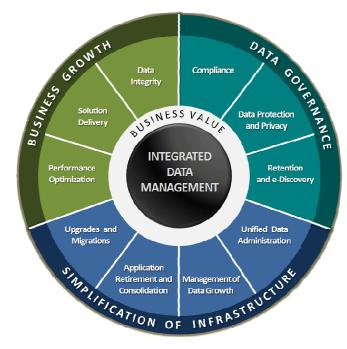
z/OS Database Administration

- Rich z/OS function
- Application Management
- Database Administration
- Performance Management
- Data Governance



Introducing Integrated Data Management from IBM Optim[™]

An integrated, modular environment to manage enterprise application data, and optimize data-driven applications, from requirements to retirement



Grow the business

- Develop business critical applications faster
- Optimize database and application performance

Govern data

- Protect sensitive data
- Retain and discover
- Comply with regulations

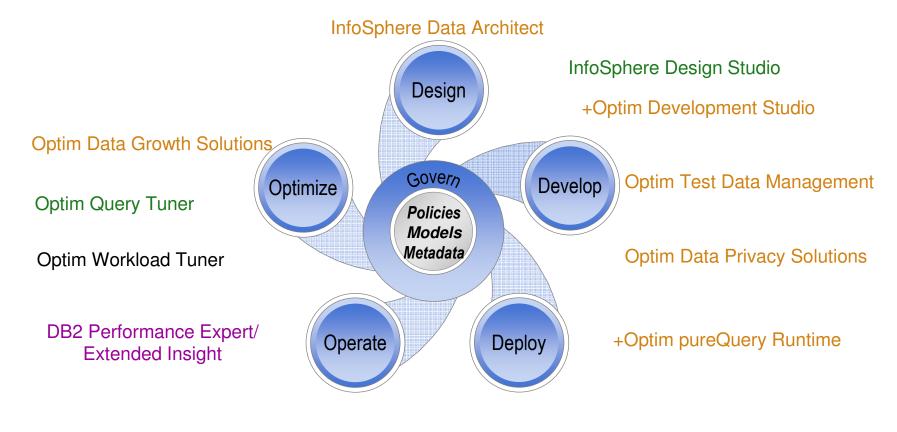
Without growing costs

- Improve productivity and automation
- Archive data safely
- Facilitate application upgrades, consolidation and retirement



Optim

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

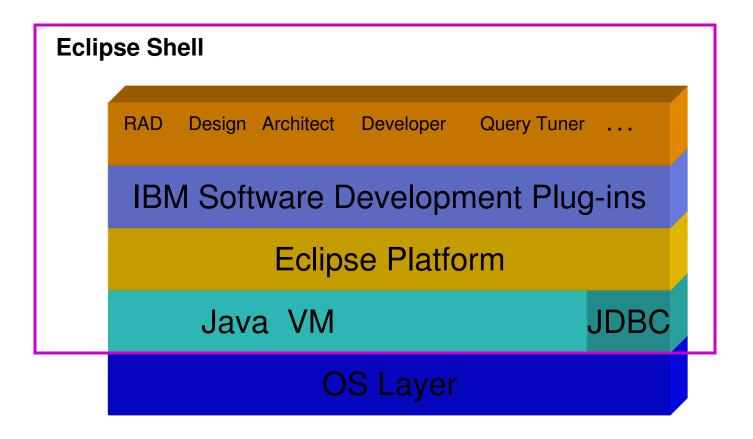


Optim Database Administrator

*System z only *Available on System z & DB2 LUW *DB2 LUW only +DB2s, IDS, Oracle *Heterogeneous



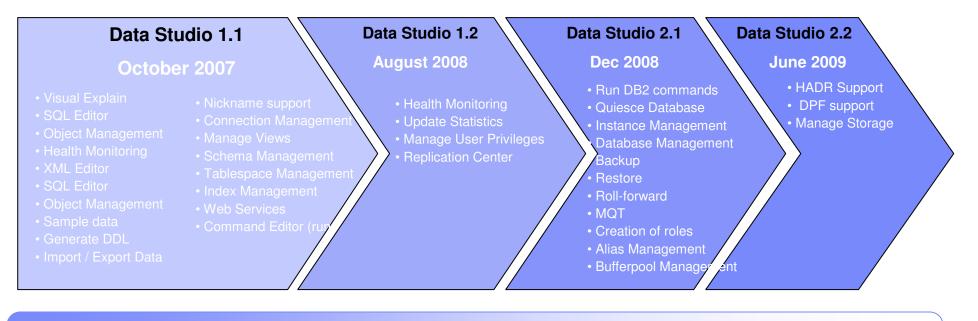
How does Eclipse help with integration?



Information Management

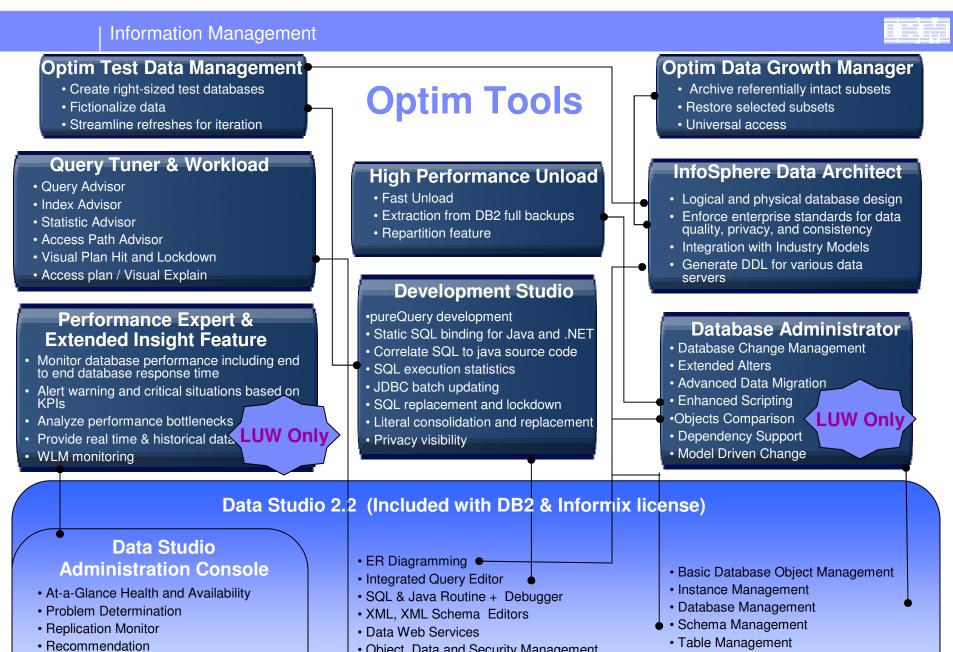


Basic Database Administration with Data Studio 2.2



Control Center Capability

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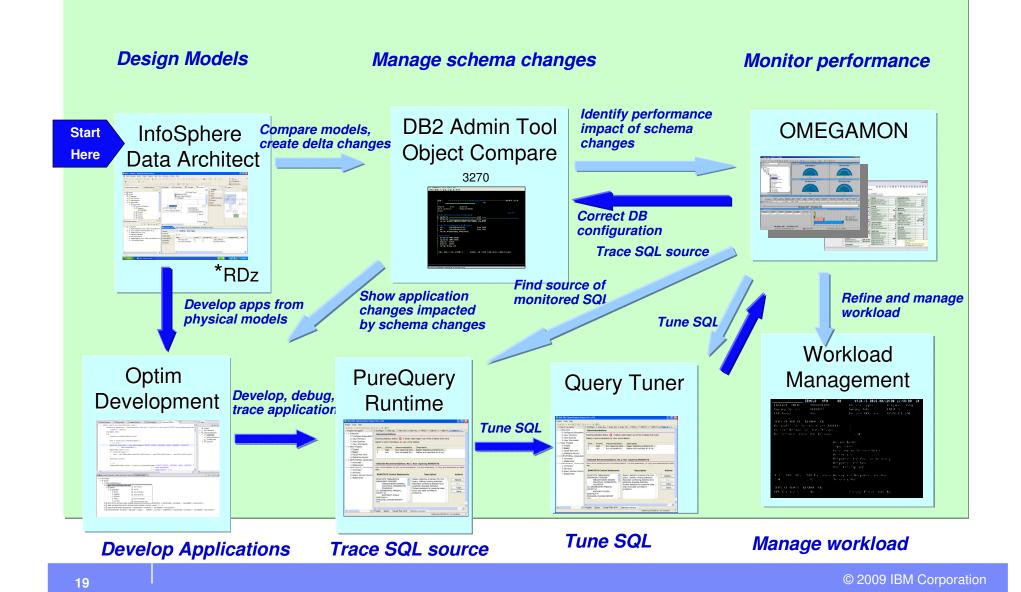
Limited Historical Information

- Object, Data and Security Management
- Visual Explain
- Export / Import Data
- Generate DDL w/o data preservation

- Configuration Management
- Backup / Restore Database
- Run DB2 Commands



DB2 for z/OS IDM Scenario



Information Management – IBM Optim

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InfoSphere Data Architect



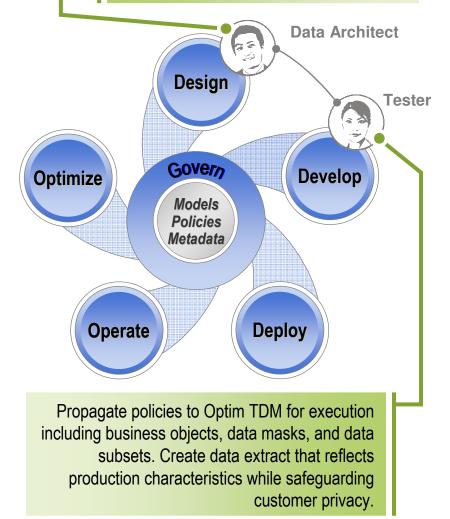
Great Outdoor company is extending its routes-to-market through partners

 Must comply with Payment Card Industry standards – can't use real account numbers or credit card numbers for application development and testing

Results:

- Provide consistent treatment of credit card numbers
- Assure application quality with realistic test data
- Safeguard customer privacy
- Avoid compliance fines and penalties

Define business objects, data semantics, and privacy models in IDA. Associate privacy models with appropriate data. Generate physical models and objects.





Aligning Around Data Privacy

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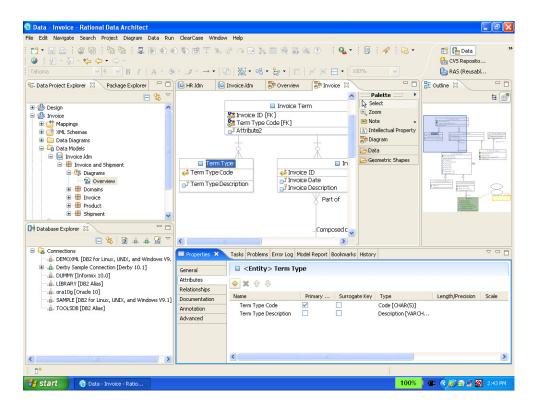


InfoSphere Data Architect - Key Features



A collaborative, data design solution to discover, model, relate, and standardize diverse data assets

- Comprehensive and powerful data modeling for diverse databases
 - Integration design
- Enterprise standards and governance
- Lifecycle integration
 - Rational
 - Optim
 - InfoSphere
 - IBM Industry Models



Information Management

Defining and Enforcing Standards Increased Quality and Governance

Naming

- Words, acronyms, and patterns
- Meaning
 - Glossary

Values

- Domain values or ranges

Transformation

Logical to physical

Privileges

- Users, groups, roles

Privacy

Data masking

Traceability

- Auditability



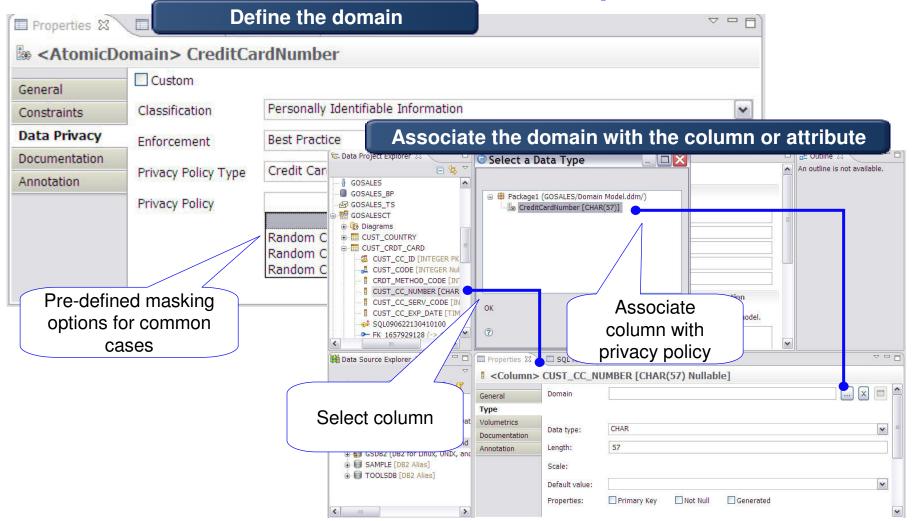
"InfoSphere Data Architect helped us to semantically integrate all our critical data sources and to design a business information model within two weeks. Previously, this process would have taken more than two and one-half months."

Large telecommunications company



Define the Privacy Model

InfoSphere Data Architect



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Share Connection with Others

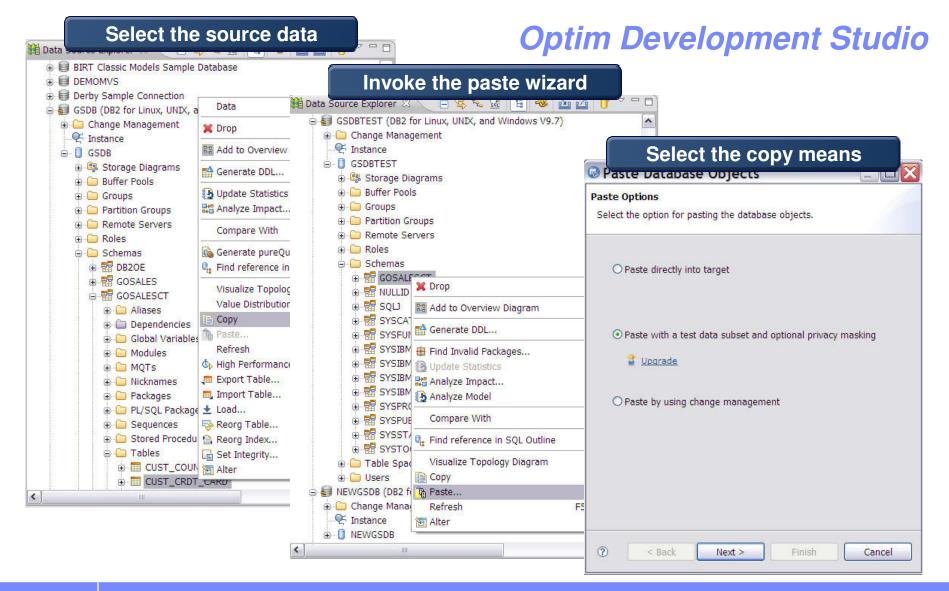
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Analyze Use of Sensitive Data in Applications *Optim Development Studio*

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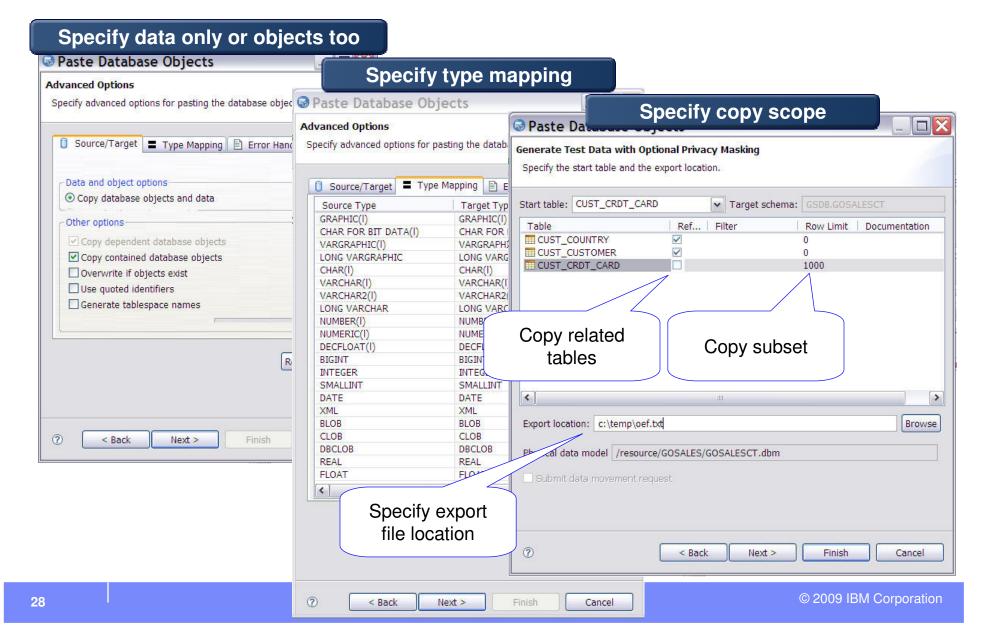
Help Developers or Testers Provision Test Data



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Specify Test Data Generation Detail





Import and Run the Extract Specification

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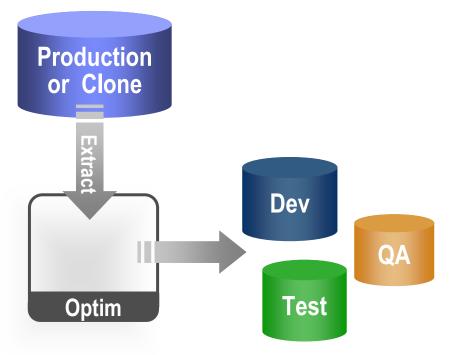


Optim Test Data Management Solution

Streamline building test databases to improve application quality, cut IT costs and accelerate solution delivery

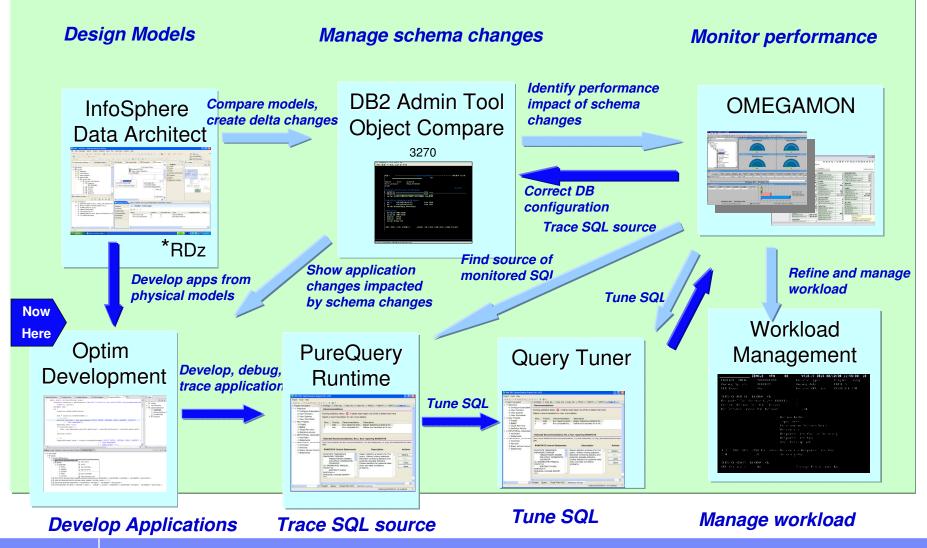
Accelerate time to market

- Create "right sized" test databases
- Extract referentially intact subsets
- Edit test data to create error and boundary conditions
- Compare baseline data against test results to pinpoint and resolve application defects faster
- Easily refresh, reset and maintain test environments
- Cut storage costs
 - Reduce storage requirements by using smaller subsets for testing
- Enable compliance
 - De-identify or mask data





DB2 for z/OS IDM Scenario



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Integrated Solutions for Diverse Problems

- Convert to static SQL execution
- Improve query design
- Improve statistics quality
- Improve database design
- Manage data growth

- Optim pureQuery Runtime and Optim Development Studio
- Optim Query Workload Tuner
- Optim Query Workload Tuner
- Optim Query Workload Tuner and InfoSphere Data Architet
- Optim Data Growth Solutions

Slide 32

HAH6 Maybe insert DB2 Object Compare here HollyAHayes, 8/18/2009



Optim pureQuery Runtime and Development Studio

Optimize database access without impacting applications

Facilitate analysis

 Capture SQL, application and performance metadata from any Java application for analysis

Enable emergency fixes

 Replace SQL without changing the application

Lock down performance and SQL



Enterprise Claims Management and Property and Liability applications

- Measured 3X developer productivity improvement
- Reduced development time for data access components by 50-75%
- Reduced the overall application CPU consumption on z/OS by 18-22%



Improve Performance, Security, and Manageability Get Static SQL for DB2 without Changing Your Code

- Make response time predictable with locked in SQL access pre-execution path
- Limit user access and reduce SQL injection
 - Grant execute privileges on query packages vs. access privileges on tables

Accelerate problem resolution

- Trace SQL execution to a specific package and the originating source

Improve impact analysis and capacity planning

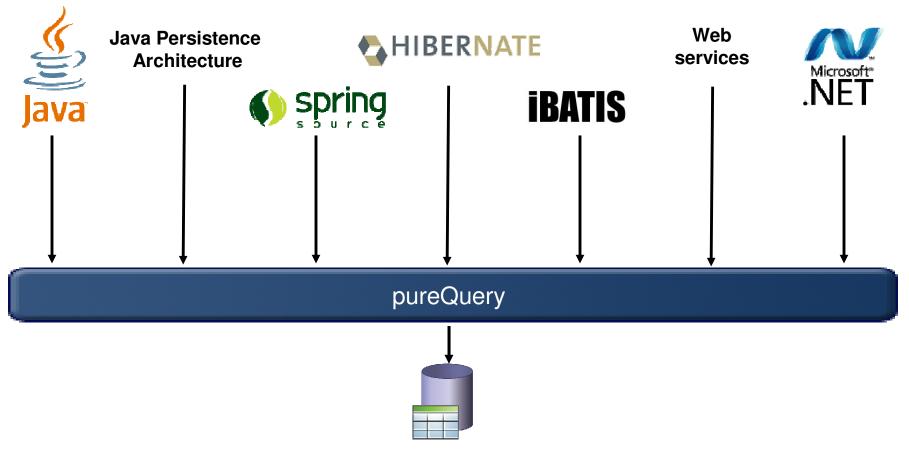
- Visualize application SQL and correlation metadata

Increase system capacity and drive dow Pragmatic Solutions, Inc.

"The ability to use static SQL with pureQuery is huge. Recently, I worked with a client who could **reduce CPU usage by 7 percent thanks to this one feature.**" - David Buelke



Database Access and pureQuery Many On-ramps for New and Existing Applications



DB2, Informix, and Oracle now...more coming

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More Visibility, Productivity, and Control of Application SQL

Capture

- Capture performance and application metadata
 - **HIBERNATE**
- **ibatis**



Spring Java Persistence **Architecture**

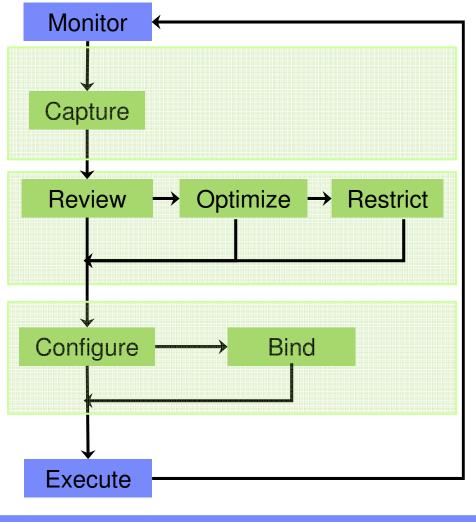
Optimize

- Visualize hotspots
- Review access plan and statistics
- Trace SQL to source
- Replace SQL
- Analyze impact of changes

Deploy

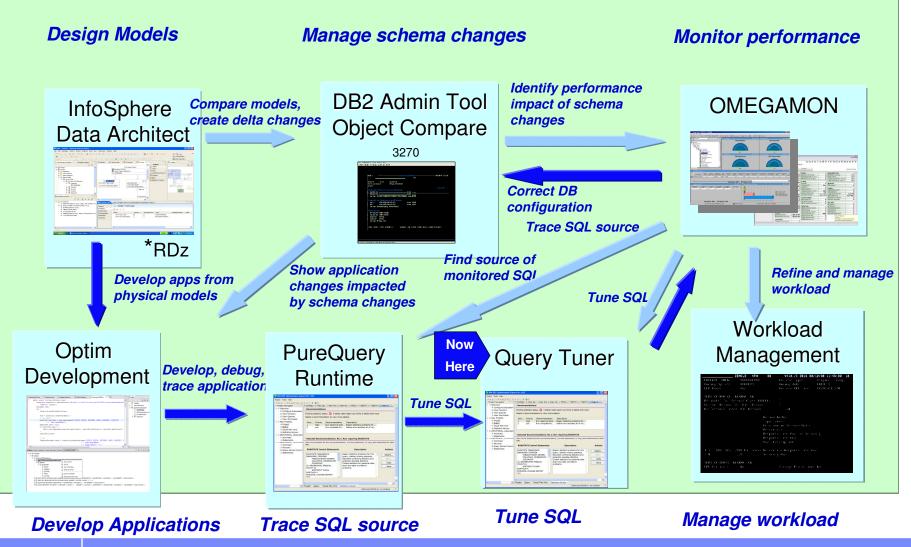
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- Lock down SQL to approved set
 - Lock down performance with
- static execution





DB2 for z/OS IDM Scenario





IBM Optim Query Workload Tuner

Optimize performance and reduce costs



- Identify high cost SQL and workloads
- Improve query design
- Improve statistics quality
- Create indexes to reduce scans
- Influence access path selection

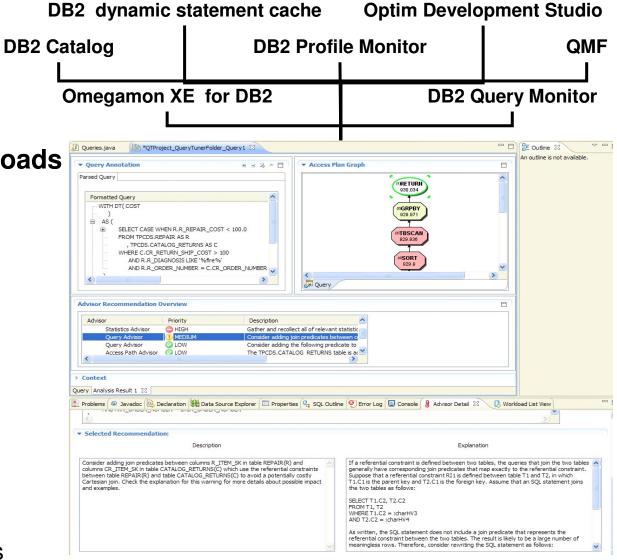
Reduce costs

- Simplify analysis for DBAs
- Improve statistics collection
- Increase system capacity
- Reduce impact of sluggish response times
- Fit workload into maintenance window



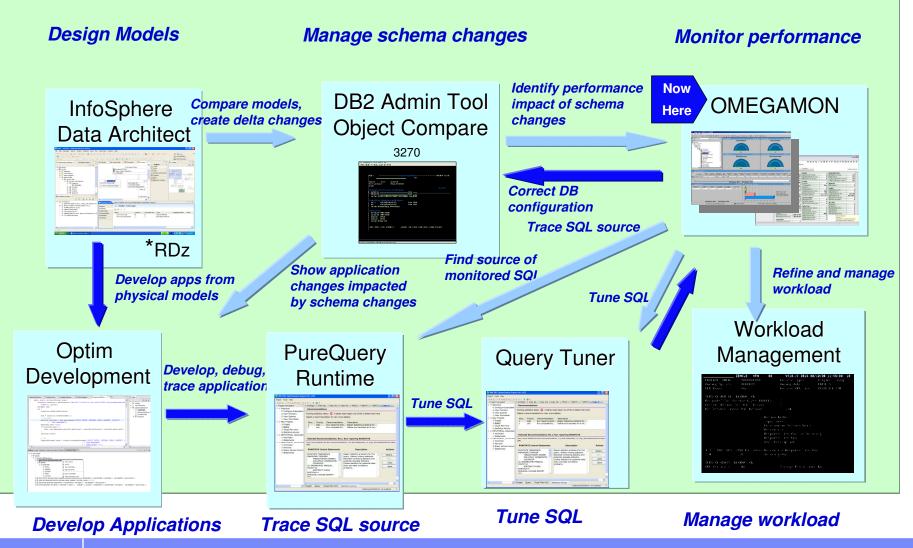
Comprehensive Approach to Optimization

- Define or select workloads
- Execute advisors
- Visualize results
 - Query plan and costs
- Drill into advice
 - Query design
 - Statistics collection
 - Index design
- Validate results
 - Compare access plans





DB2 for z/OS IDM Scenario



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IBM Tivoli OMEGAMON® XE for DB2 PE / PM

Product at a Glance

- Tremendous reporting infrastructure
- Sysplex and Data Sharing wide monitoring and bottleneck analysis of specific workload elements and objects
- Early detection of out-of-line situation with the automated capability to take actions
- Easy to use monitoring and tracing functions for application and system environment
- Full V9 exploitation; VNEXT underway

News

- Improved SAP Monitoring 6.40
- Monitoring of DB2 Connect
- Improved Accounting (DB2 V8 ACCUMAC)
- Granular IFCID 225 Information (Virtual Storage Monitoring)
- Improved distributed application support
- Seamless navigation between DB2, IMS, zOS, and CICS

Benefits

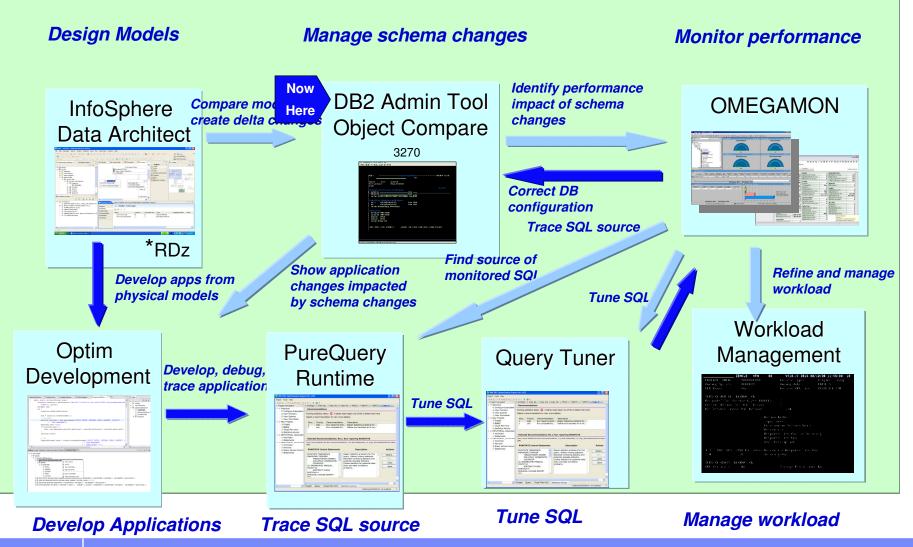
- Highly flexible reporting and Performance Warehouse
- Rule-of-Thumb and expert analysis with dedicated recommendations
- Fully integrated Real-time monitoring
- DB2 Connect monitoring correlated with host DBAT thread information
- Expert buffer pool analysis with What-if simulation capability

Includes Buffer Pool Analyzer

- BPAs goal is, to save you memory and CPU resources by optimizing DB2s Buffer Pools
- Two major functions to achieve this:
 - Change size of BPs to make most out of available real memory
 - Group objects in BPs according to characteristic (called Object Placement) and define BP thresholds accordingly
- Allows you to test changes before you apply them to system (simulation)

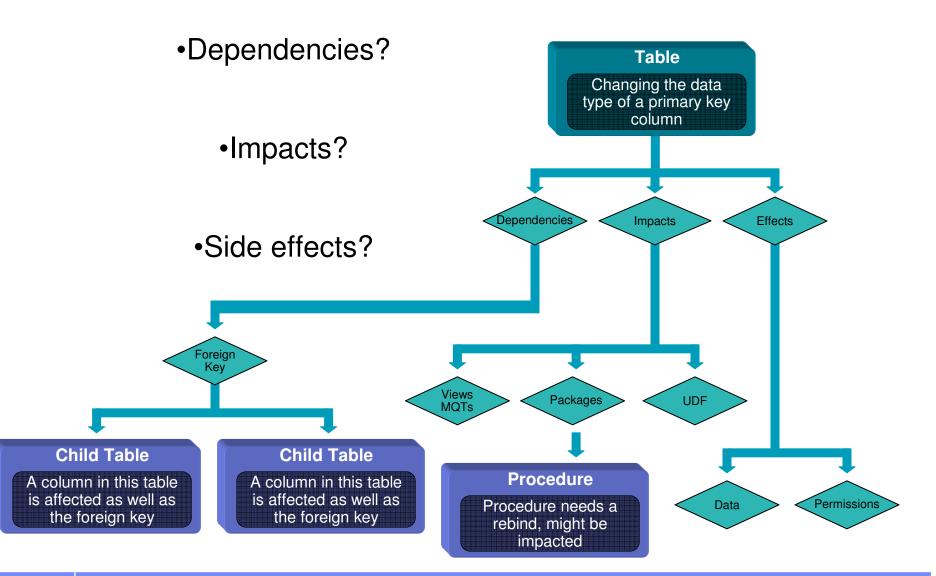


DB2 for z/OS IDM Scenario



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Why is Database Change Management Difficult?





IBM DB2 Administration Tool & Object Compare

Improve DBA productivity and reduce application outages by automating and simplifying complex DB2 structural changes.



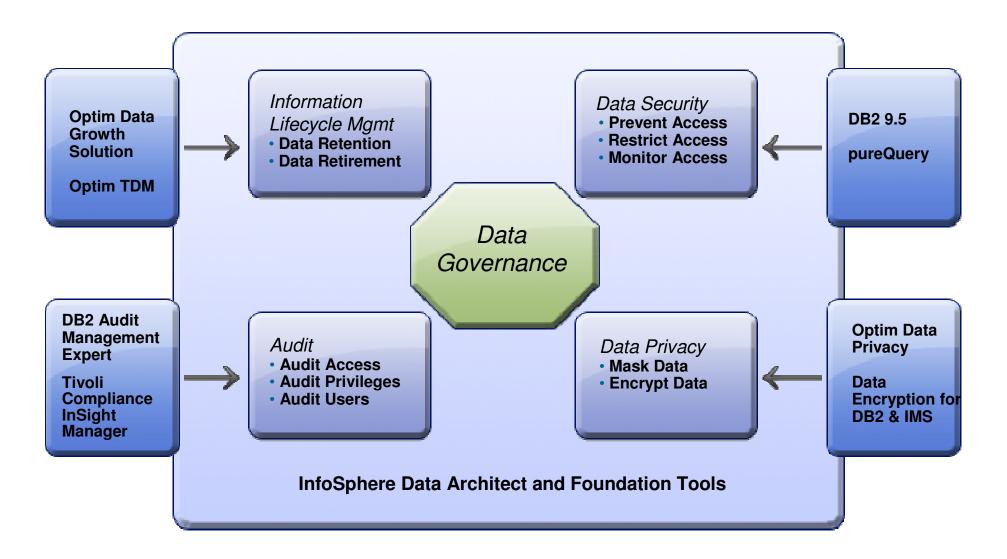
Manages changes while

- Preserving data, privileges, all dependent objects, and application binding
- Synchronizes, copies, clones, or merges database schema from the source to the target
 - Migration from physical data models, live database connections, or from scripts

Documents changes for collaboration and audit



IBM Data Governance Software



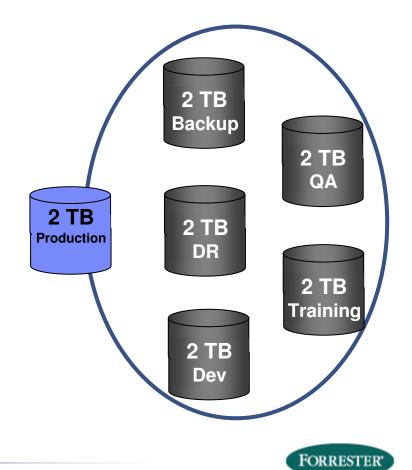
Slide 45

HAH5 Needs to be updated for z/OS HollyAHayes, 8/18/2009

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Challenge: Data Growth

- Mergers & acquisitions
- Organic business growth
 - eCommerce
 - ERP/CRM
- The digital revolution
- Records retention
 - Basel II
 - SOX
 - Euro-SOX
- Data multiplier effect
 - Ex. 2 TB production data translates into 12 TB storage



Forrester estimates that 85% of data stored in databases is inactive

Noel Yuhanna, Forrester Research, Database Archiving Remains An Important Part Of Enterprise DBMS Strategy, 8/13/07

IBM Optim Data Growth Solution

Improve enterprise application performance while driving down costs and complying with regulations

Extract

- Identify business objects
- Leverage application templates and data models
- Span multiple related applications, databases and platforms

Store

- Store immutable business objects independent of infrastructure
- Support any hardware device or platform

Comply

47

- Access via interface of your choice
- Restore precisely what is needed
- Retain and retire

Reduced batch processing runtime for Payroll by 25%. Realized a cost savings of 50% and reduction in runtime for database utilities. Reduced database storage needs by 30% (from approximately 325 GB to 225 GB).









Integrated Data Management

An integrated environment to span today's flexible roles

Enable alignment across the lifecycle

- Manage by intention
- Share policies with downstream tasks

Improve individual and team productivity

- Increase automation
- Facilitate collaboration
- Provide context-aware capabilities

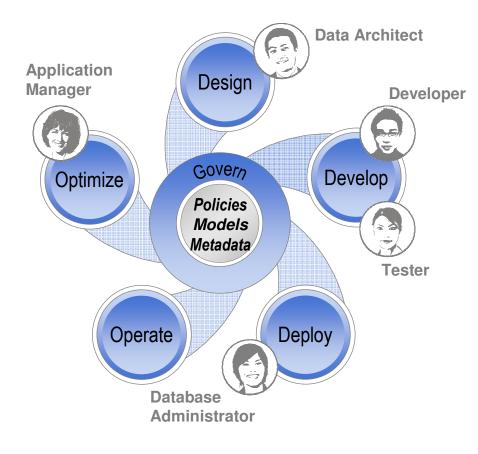
Optimize performance

- Embed best practices into solutions
- Provide expert advice to increase skills
- Improve resource utilization





IBM Integrated Data Management Grow the business, without growing costs



Grow the business

- Develop business critical applications faster
- Optimize database and application performance

Govern data

- Protect sensitive data
- Retain and discover
- Comply with regulations
- Without growing costs
 - Improve productivity and automation
 - Archive data safely
 - Facilitate application upgrades, consolidation and retirement







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 - Facebook http://www.facebook.com/racoss
- Jay Bruce
 - jmbruce@us.ibm.com





Optim Community and Resources

Integrated Data Management community space on developerWorks – your portal to:

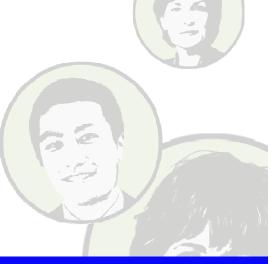
- Forums & blogs (PLEASE subscribe to Integrated Data Management Experts blog – lots of news comes through here)
- Downloads
- Technical articles, tutorials, product documentation
- News and events
- Videos (ChannelDB2 and youtube)
- Online Demos (developerWorks and marketing)
- Technical training
- Easy url: ibm.com/developerworks/spaces/optim

Optim Fan Facebook page

- Log into Facebook and search on IBM Optim

Optim family page on developerWorks

- ibm.com/developerworks/data/products/optim/



Kathy Zeidenstein sends out a weekly update with links to new articles, blogs, announcements, etc. Send her a note if you're interested.

krzeide@us.ibm.com



Integrated Data Management Community Space



Information Management



Integrated Data Management Community Space (more)

why you should care, for performance, manageability, and security reasons.

Be sure to check out the results of this <u>performance study</u> that compares static SQL using pureQuery with JDBC, EJB2 and OpenJPA.

You can get better performance using pureQuery for dynamic access as well. The WebSphere Customer Center team migrated from EJB 2 to pureQuery and got <u>great results</u>.

Latest news: Performance results using pureQuery with .NET applications

Where we'll be

· IOD NA (October 25-20): Be there!

· IDUG EMEA (October 5-9): Curt Cotner goes to Rome.

 <u>Baltimore Washington DB2 Users Group (September 9)</u>: For z/OS customers - Tom Howell on planning for upgrades and migrations and Data Privacy.

Channel DB2 videos

How to Set Up, Configure, and Use IBM DB2 Performance Expert's
 Performance Warehouse

 <u>DB2 Performance Expert Extended Insight Feature</u>: Torsten walks you through the new capabilities for monitoring Java apps accessing DB2.

• NEW! Data Studio 2.2 Video: 5 short parts for those with short attention spans.

DB2 Performance Explort System Overview: Nathan walks you through the cool stuff in the PE dashboard.

Build an eforms solution with pureXML: Uses Data Studio to build the Web service.

pureQuery explained: Rafael explains how pureQuery is different than other data access approaches.

 Sonali demonstrates Optim Development Studio 2.2: Oracle support and copy/paste are demo'd.

• NEW! Optim Query Tuning solution for Java developers: Tony Leung demonstrates the integration of Optim Development Studio and Optim Query Tuner.

Learn More!

Basics of Data Studio Environment: Online course basics of IBM Data Studio Developer. NO CHARGE if you enroll in 2008.

Preparing for Stored Procedure Certification, Tutorial Series: Prep for Exam 735

- Developing Database Applications with IBM Data Studio and pureQuery: Three-day intensive course offered by InferData.
- · Using InfoSphere Data Architect: 2-day course.

Webcasts & podcasts

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<u>Integrated Data Management Solutions for Performance</u> <u>Optimization</u>: You're going to be hearing a lot about integrated data management. Learn about an integrated solution to improving performance and manageability.

 Data Studio for z/OS: From requirements to retirement, managing your data environment

Improve data security with Rational Data Architect V7.5

· Monitoring and managing change for database administration

- Podcast: Curt Cotner with YL&A (Cocktail Hour)
- <u>Podcast: Enhancing Java environments with pureQuery</u>: Wow! You'll learn a lot in about the time it takes you to get to the grocery store.

Use pureQuery to improve QoS for WebSphere&DB2 apps

 <u>Accelerating Solutions Delivery</u>: No matter what your development methodology, it's always better to do faster and with better quality.

• NEW! Replay of Data Studio becomes Optim: What it means for you: First in IDM Virtual tech briefing series. Good overview of the major management capabilities, making it easier to manage data-centric tasks across the lifecycle spanning design, development, deployment, management, optimization, and governance. This space will serve as a central hub of information and conversation about Integrated Data Management products, technologies, and best practices.

Objective: To share experiences with IBM Data Studio users.

Audience: Data Architects Database Administrators Data Stewards Database developers Java developers

Group type:Public

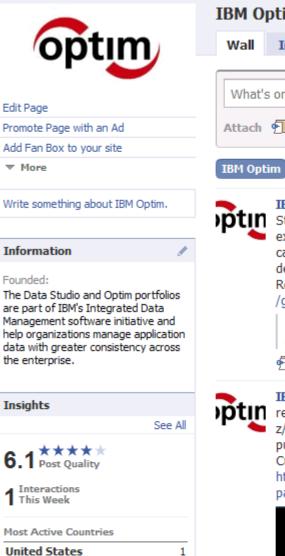
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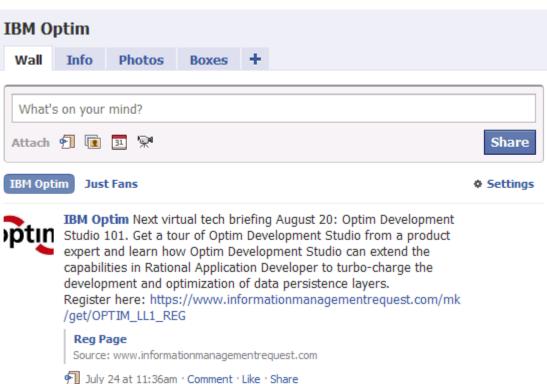
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IBM Optim In case you didn't hear, yesterday IBM announced new releases and new products for z/OS. Optim Query Tuner for DB2 for z/OS, Optim Query Workload Tuner for DB2 for z/OS and Optim

pureQuery Runtime for z/OS. You can find links to the announcements in Curt Cotner's recent blog here:

http://www.ibm.com/developerworks/blogs/

page/datastudioteam?entry=new_announcements_for_z_optim



IBM developerWorks : Blogs : Managing the data lifecycle: from design to deletion

Source: www.ibm.com

Our team of Integrated Data Management experts from the lab offer insights, advice, hints and tips, and lessons learned. Topics include everything from data modeling and database application development to database administration, performance monitoring, and

Corporation



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Blog (ibm.com/developerworks/mydeveloperworks/blogs/idm/)

