

Good Morning!

DB2 Users Group Meeting

Please ...set cell phones to stun (vibrate)





Enterprise Data Management Essentials of Test Data Management



Agenda

- Introductions
- EDM Overview
- Test Data Management Concepts
- TDM Solution
 - Subsetting
 - Data Privacy
- Q & A



Why?

- Solve client pains surrounding their growing volumes of data
- Enable client to reduce application development costs while addressing security risks
- Why is data growing so fast?
 - Retention of data for auditing purposes
 - Growing compliance and data privacy requirements
 - High growth data warehouses
 - Why is this a difficult problem for customers to solve?
 - Disparate applications and infrastructure
 - Auditing of both "live" and "historical" data
 - Aligned IT and business compliance is required
 - What are the pains involved?
 - Data maintenance and storage costs
 - Inactive data degrades data server performance
 - Security breaches or compliance failures can have enormous costs to the business
 - Part of Information Management Software Group
 - Data Server Division

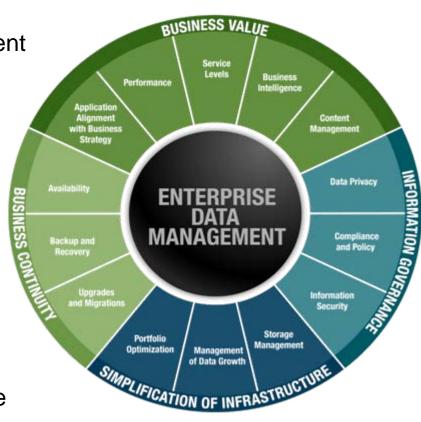




IBM Optim

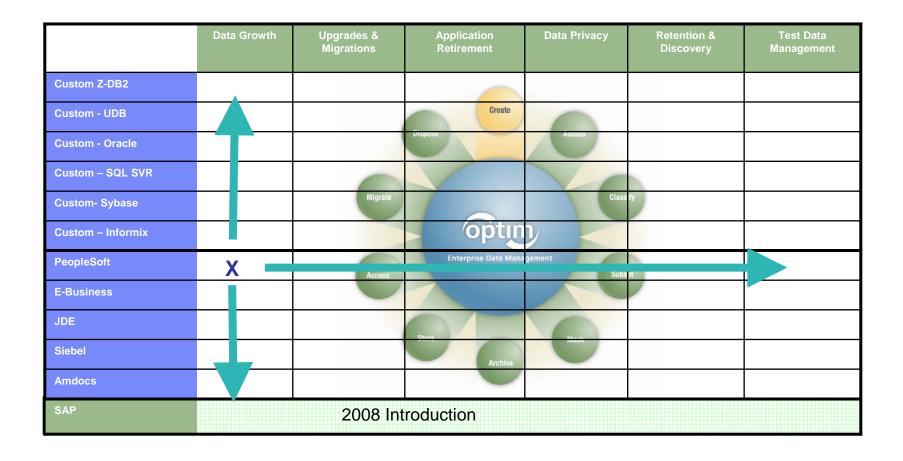
 Market leading Enterprise Data Management (EDM) Solution and Platform:

- Data Growth
- Retention & Discovery
- Data Privacy
- Test Data Management
- Application Upgrades
- Application Retirement
- Solving complex data management issues since 1989
- 2500+ clients worldwide; c. 50% of Fortune500
- Princeton Softech acquired by IBM, September 2007





Optim[™] Enterprise Platform







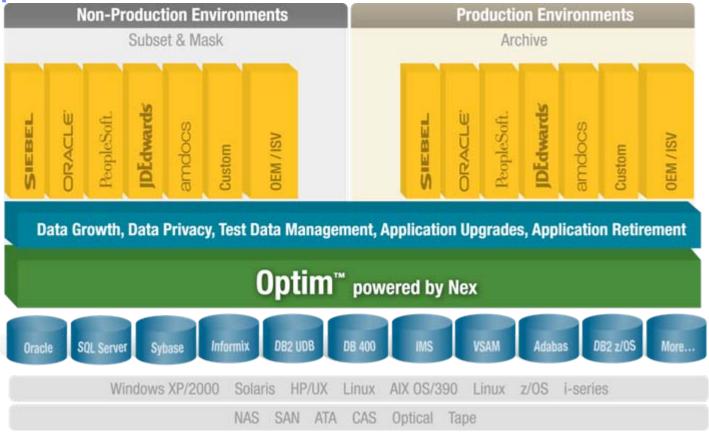
EDM Solution Requirements – The Four Pillars

- 1. Enterprise Architecture
- 2. Complete Business Object
- 3. Extract, Store, Port and Protect
- Universal Access





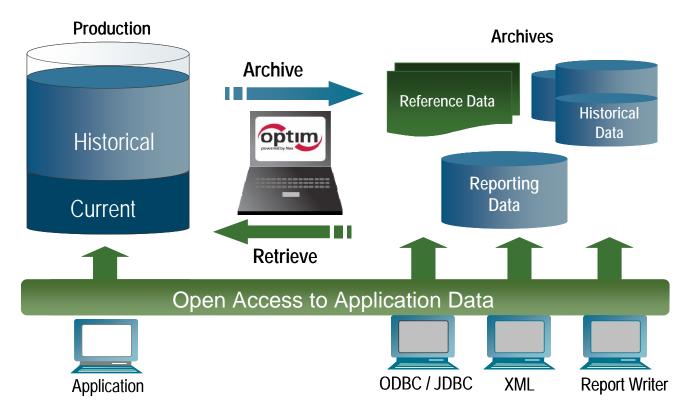
Enterprise Architecture



Single, scalable, interoperable EDM solution provides a central point to deploy policies to extract, store, port, and protect application data records from creation to deletion



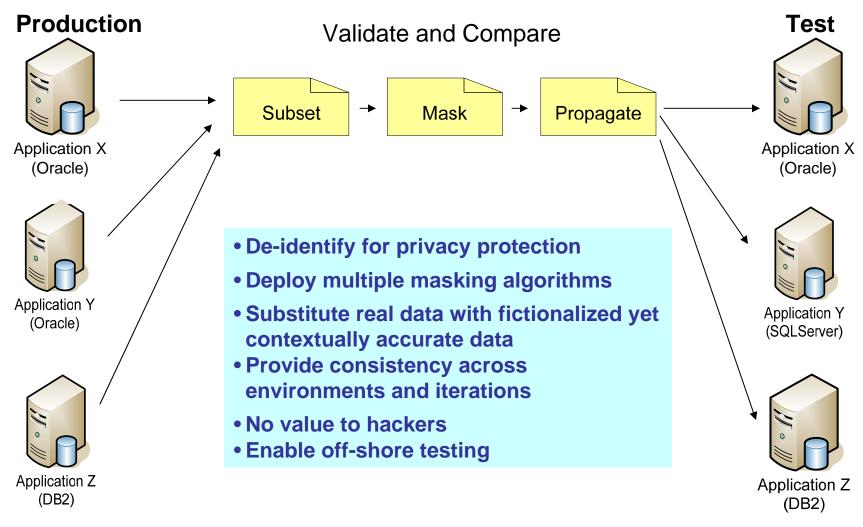
Optim[™] Data Growth Solution: Archiving



- Complete Business Object provides historical reference snapshot of business activity
- Storage device independence enables ILM
- Immutable archives enables data retention compliance



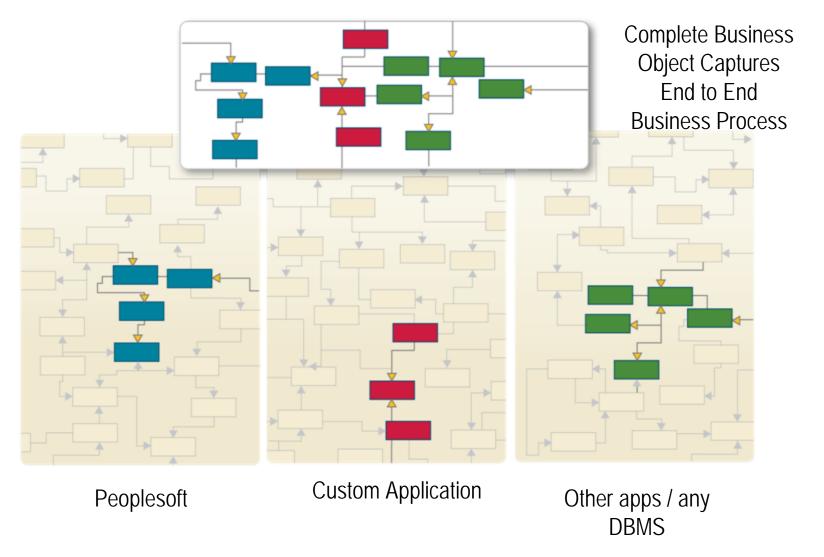
Test Data Management and Data Privacy Solution



Ensure Data Privacy Across Non-Production Environments!



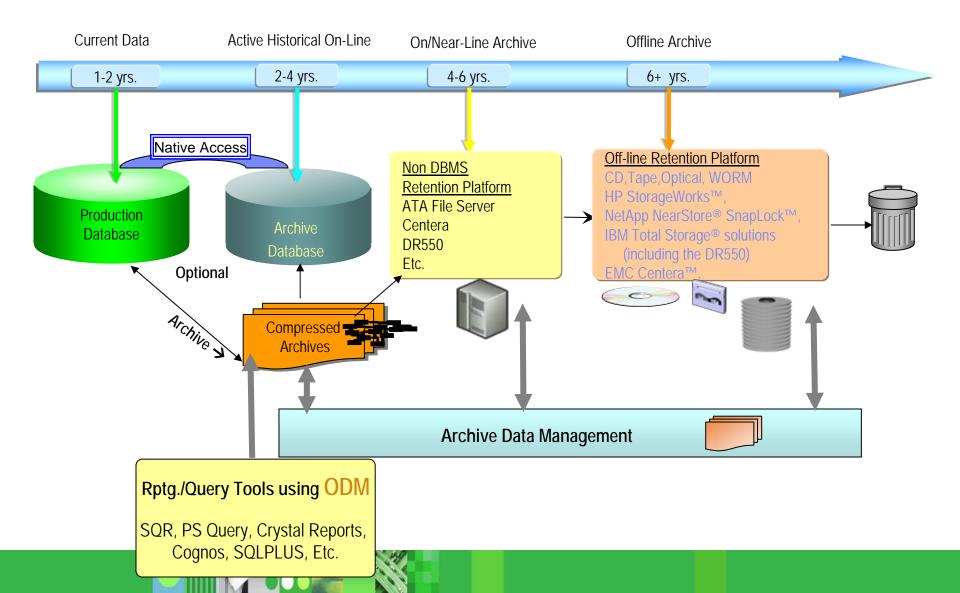
Key Capability - Federated Data Support







Data Retention Strategies





Universal Access



Application independent access

- Industry standard methods: SQL, ODBC/JDBC, XML
- Portals
- Report writers: Crystal Reports, Cognos, Business Objects, Discoverer, Actuate
- Desktop formats: Excel, CSV, MS Access
- Database formats

Native application access

 Familiar screens and processes

Access Any Record, Anytime, Anywhere!



Benefits of Subsetting

- Maximize allocated disk space
- Increase number of test/dev environments
- Reduce infrastructure costs
- Realize development and test efficiencies
 - Reduce the cycle times for test upgrades
 - Reduces time and resources required to backup and maintain non-production environments
- Cap or eliminate future disk purchase



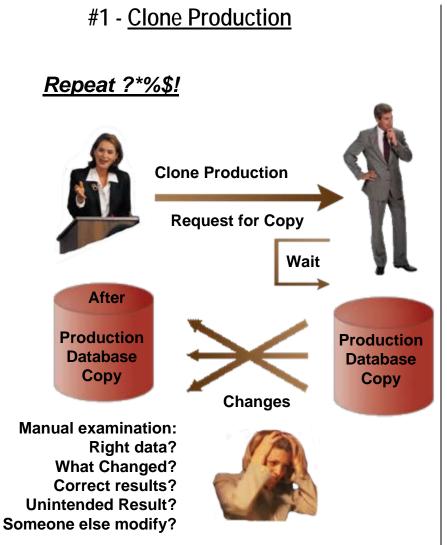


Solution

- Extract precise subsets of related data to build realistic, "rightsized" test databases
 - Create referentially intact subsets
 - Remove the bulk of production data
 - Minimize the load on testing and staging servers
- Speed iterative testing tasks with reusable processing definitions and Extract Files to ensure consistency
- Change Original Data with real-looking Masked Data



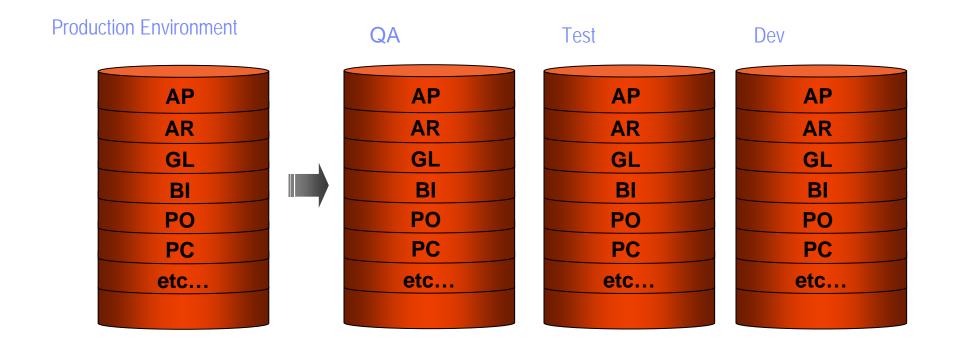
Current Practice?





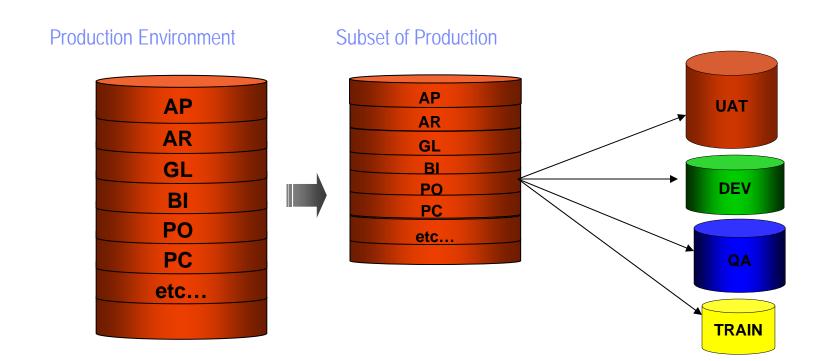


Typical Cloning

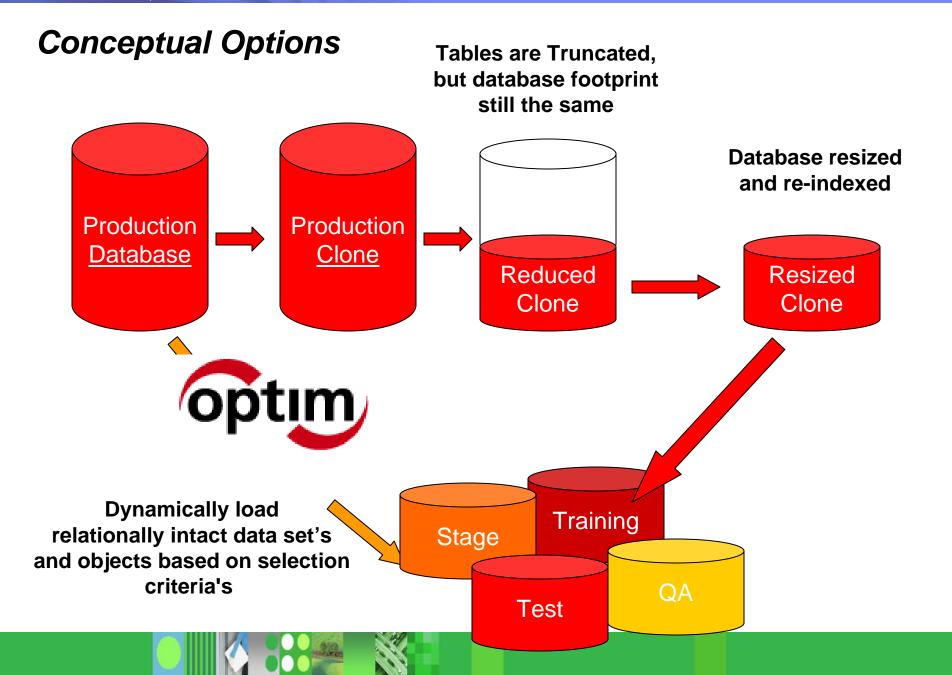


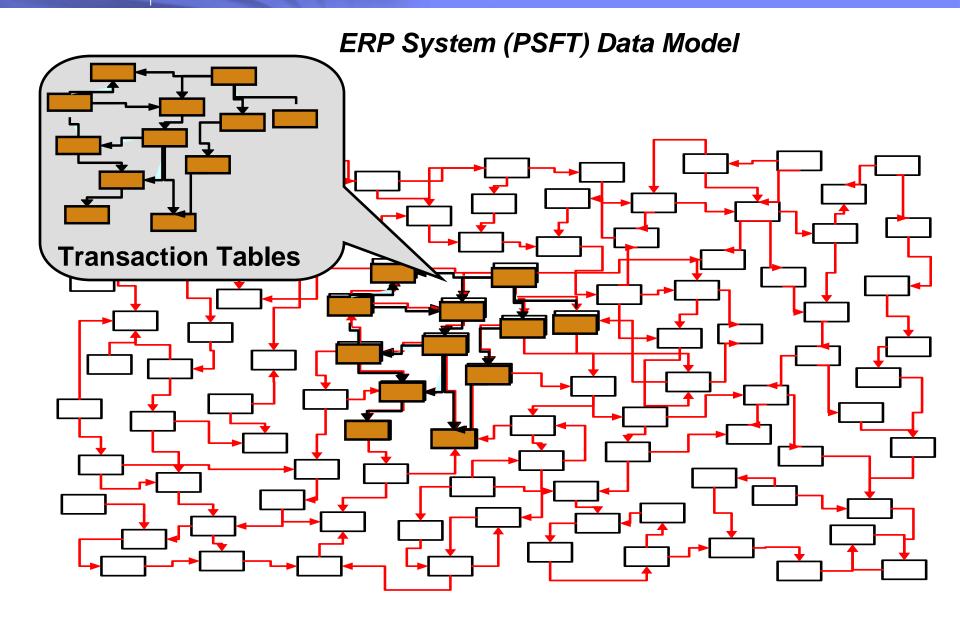


Subset Process

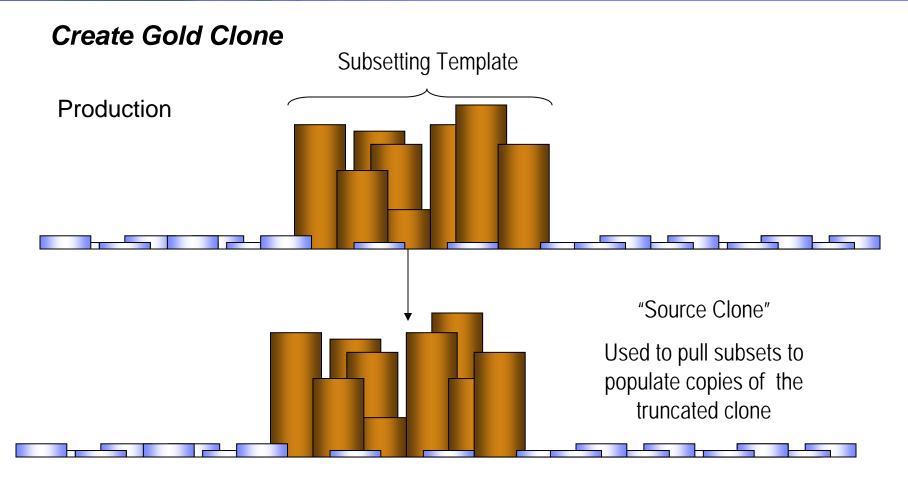






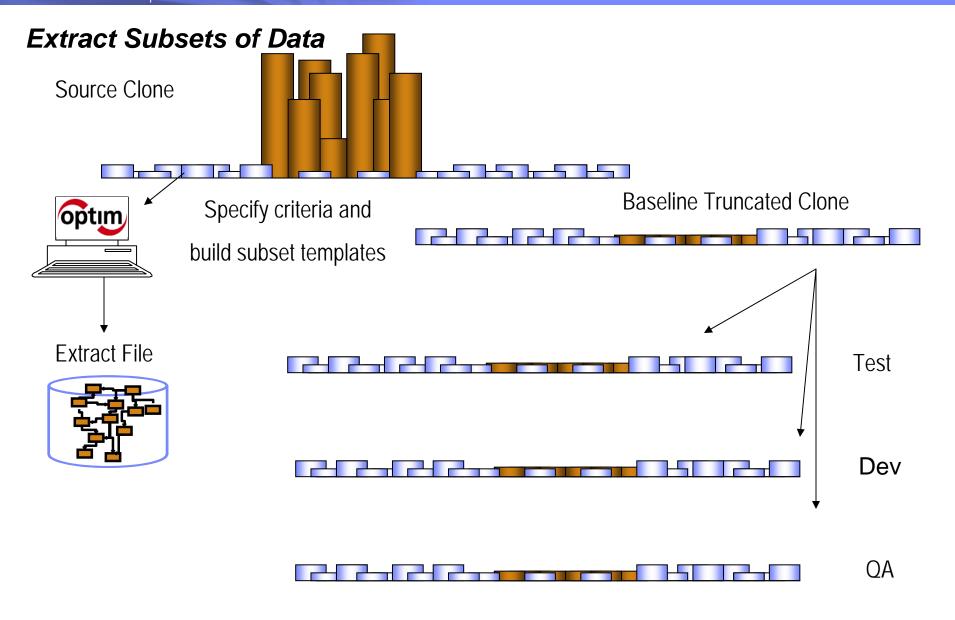




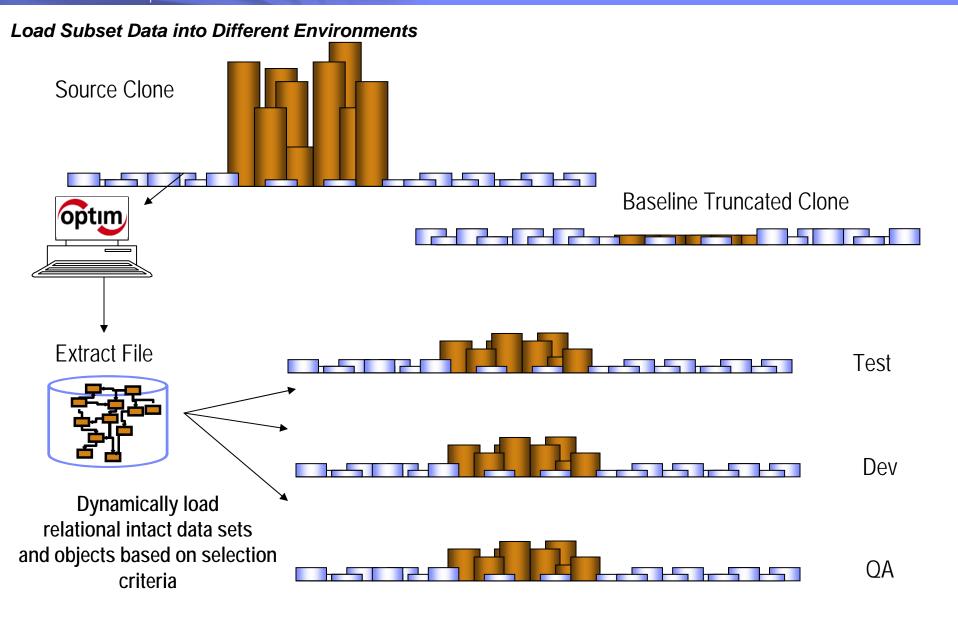


"Gold Clone" – this becomes your baseline



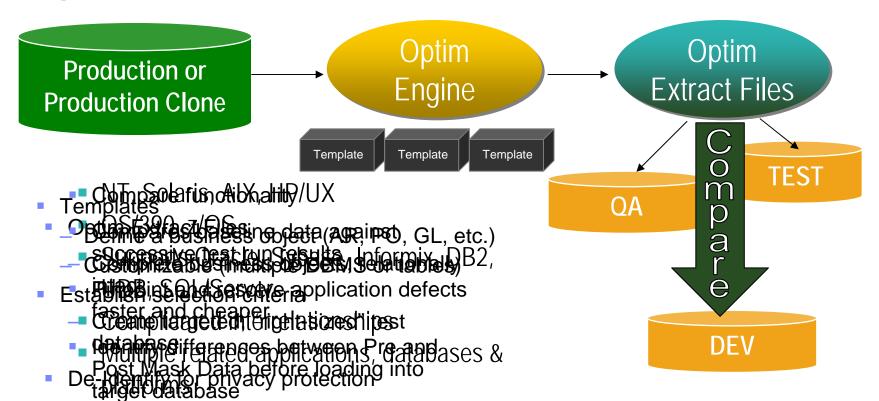








Optim Subset Creation

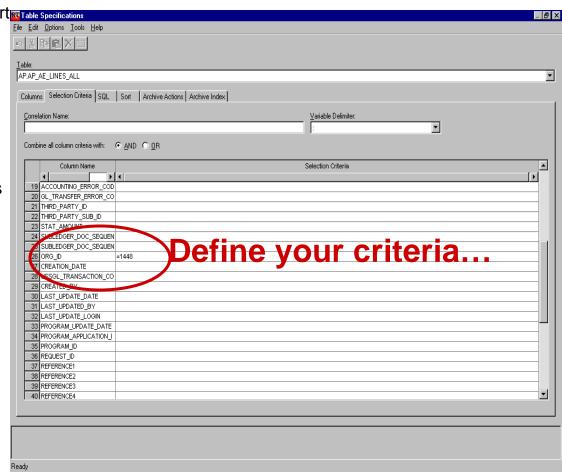


- Deploy one or more masking algorithms
 Audit changes to a database
- Substitute real data with fictionalized Single-table of multi-table compare but contextually accurate data
- No value to hackers



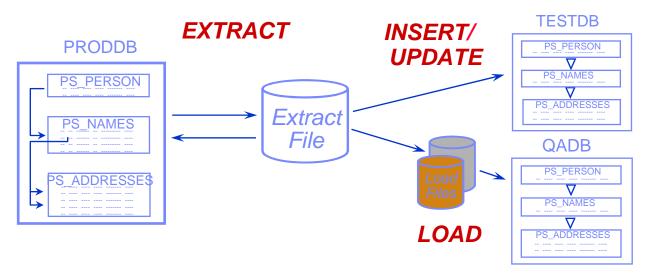
Creating Subset Templates

- Specify % of data to be used for subsetting
- Specify Max # of rows to be used from the Start Table Specifications
 Table
- Add tables including any custom tables
- Add relationships
 - Same instance
 - across instances and database platforms
- Define Relationship Traversals
- Criteria can be based on one or more modules
- All Date Values
 - Accounting Date
 - Fiscal Year
- Business Unit, Ledger Groups Status
- "And/Or" combinations
- More....





The Relational Extract Facility

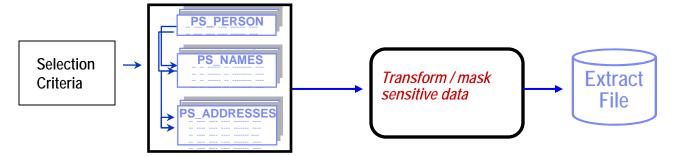


- GUI based saves Programmer/DBA Time, Disk Space
- Minimizes Testing Interference
- Facilitates:
 - Creating and Maintaining Test Databases
 - Migrating Referentially Intact Subsets of Data



Defining the Extract

Extract a relationally intact subset from production database(s)



- - Extract data and/or object definitions
 - Extract from source tables using dynamic SQL
 - Select start table or define a set of tables
 - Enter selection criteria
 - SQL where-clause
 - random rows, data partitioning & sampling
 - Control traversal; Show steps



Why do something with Optim

Optim solves the market need...

- Extract precise subsets of related data to build realistic, "right-sized" test databases
 - Create referentially intact subsets
 - Flexible criteria for determining record sets
- Speed iterative testing tasks with reusable processing definitions and Extract Files to ensure consistency
- De-identify sensitive data in the test environment to ensure compliance with regulatory requirements for data privacy.
- Compare the test data before and after



What Clients can do with Optim:

- Effectively Manage Data Growth
 - Improve application performance
 - Control data growth, save HW & storage
 - Delay CPU/MIPS upgrades
 - Streamline application upgrades
- Perform True and Optimized Test Data Management
 - Create targeted, right sized test environments, save HW & storage
 - Improve application quality, Compare to pinpoint app defects faster
 - Speed iterative testing processes
- Facilitate Data Privacy
 - Mask confidential data, Mitigate Risk
 - Comply with privacy policies, enable offshore testing with privatized data
 - Exceed PCI standards
- **Enhance Compliance**
 - Decommissioning/Sunset unused applications
 - Low cost of Data retention compliance



Thank You