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**Move to Oracle Database with Oracle SQL Developer Migrations** 

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## **Agenda**

- Types of migrations
- Migration space and project risk
- Project costs overview
- Exadata and database consolidation
- Predictable and measurable projects
- SQL Developer Migration functionality
- More information
- Summary

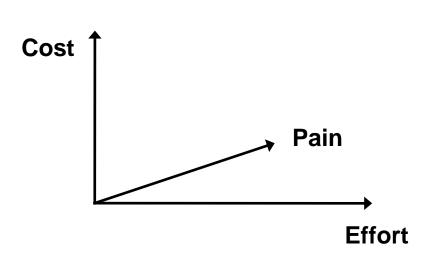
## **Introducing Migrations**

## **Types of Migration**

- A migration is required when you have an application system that you wish to move to another technology and/or platform
- You can migrate applications from:
  - Windows to Linux
  - Mainframe to UNIX
  - Sybase to Oracle Database 11g
  - Visual Basic to Java
  - Microsoft SQL Server to Oracle Database 11g on Linux
  - Microsoft Access to Oracle Application Express
  - Teradata to Exadata
- Migration includes moving objects, data and application code

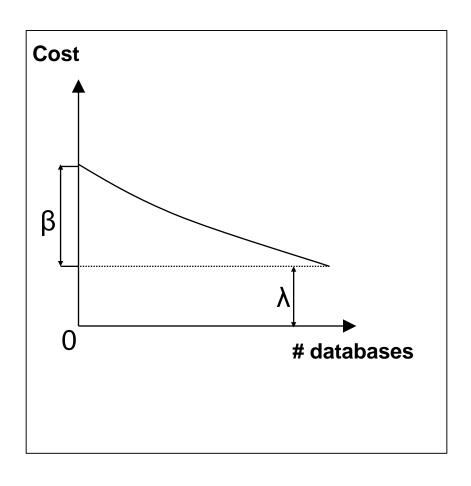


## **Migration Space and Project Risk**



- What factors are forcing us to look at migration?
- How much pain is involved?
- How much effort is involved?
  Is it measurable?
- How much will it cost? Is it worth it?

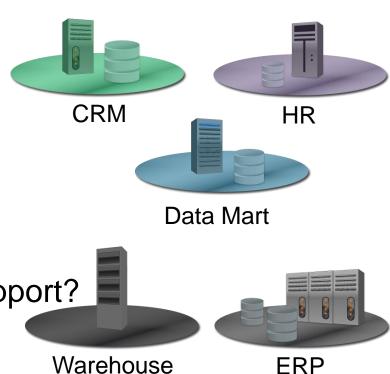
## **Project Costs**



- Consolidation
  - Many platforms to one
  - Hardware and software consolidation
  - Centralized IT management
- Reliability Scalability Performance
  - Core competencies of Oracle
  - Key customer concerns
- Cost of Ownership
  - The more databases you have, the lower the relative cost of migration

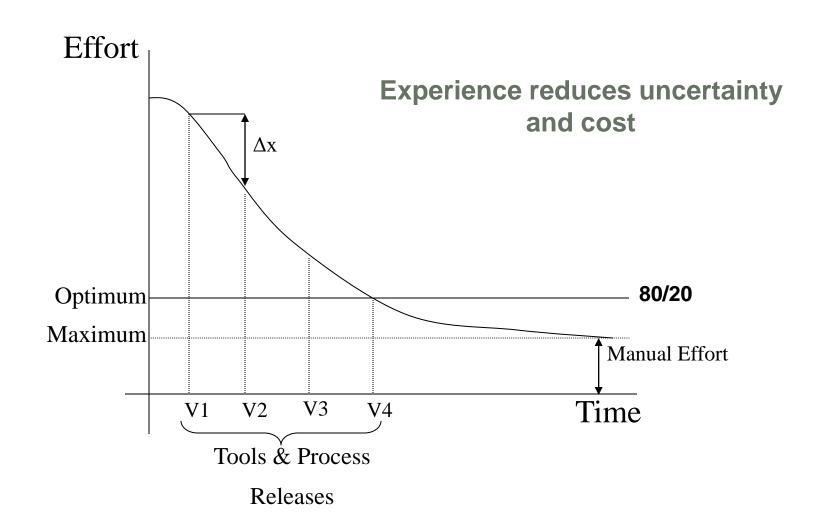
## **Choices, Choices**

- How do you save money?
  - Consolidation of hardware
  - License reduction
  - Retire systems you can do without
  - Skill consolidation in your teams
- How many systems need to support?
  - Which are critical?
  - Where are the problems?
  - Is there a flexible way to reduce footprint over time, but have the ability to grow over time when required?



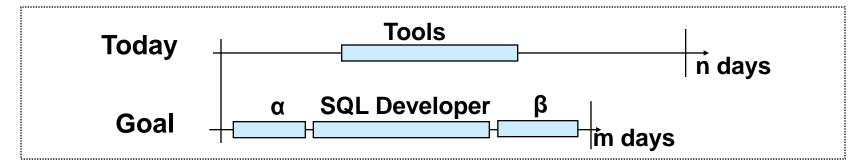
## **Automating Migrations**

## **Predictable and Measurable Projects**



## **Automation in Projects**

**SQL** Developer lowers cost and effort in projects



$$Efficiency = 100 \left(\frac{(n-m)}{n}\right) \text{ where } \begin{cases} \alpha = \text{Pre-migration} \\ \text{Automation} \\ \text{Automation} \\ \text{x = \% Improvement} \end{cases}$$

### Goals

- Maximize complex migration issues
- Minimize manual intervention to minimum and standardize where possible



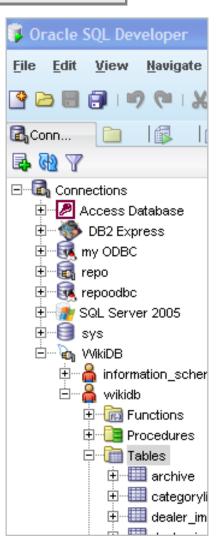


## **Oracle SQL Developer**

Completing the lifecycle

1.5 Million users and growing

- Migration technology built on SQL Developer
- Migrate third party databases to Oracle in 5 stages
  - Connect, capture, convert, generate, data move
- Native 3rd party database support
  - Create database connections
  - Create and browse third party database objects
  - SQL Worksheet support
  - Powerful reporting on objects migrated



## **SQL** Developer Migrations

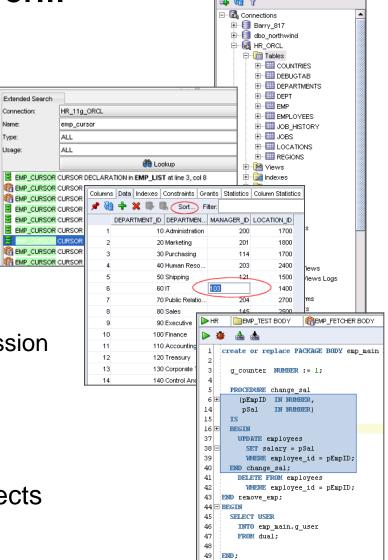
- Logical equivalence
- Simple and expert modes using repository
- Least Privilege Migration
  - Users can migrate any object they can access
- Sync Mode
  - Capture a snapshot of 3rd party database metadata
  - Static target used in the migration
  - Visual correlation of derived database objects
- All existing functionality supported
  - Offline data migration using generated scripts
  - Offline meta data load using SQL scripts
- Tailored generation of emulation package

Migration Tools Help Automati Quick Migrate... Repository Management Microsoft Access Exporter Migrate Data Capture Microsoft Access Exported > Quick Migrate... Capture Into Existing Model 🛨 🔠 image imagelinks ·IIII ipblocks Ioaaina 🛗 ⊕ diectcache ± dimage ₹ Captured Models Captured Models wikiuser@thirdparty.ie.oracle Wikidb 📶 Functions

Multiple projects, Concurrent users and Customizable

**SQL Developer: Integrated Platform** 

- Create database connections
- Create and browse objects
- Query and update data
- Import data, export data and objects
- Use the SQL Worksheet
- Tune SQL using
  - Autotrace, Explain plan and monitor session
- Create, run and test PL/SQL
- Run and define reports
- Build extensions
- Importing data, exporting data and objects
- Working with files and version control





Reports

Connections

## **SQL Developer Migrations: Supported Databases**

Database	Versions
Sybase Adaptive Server	12.5,15.x
Microsoft SQL Server	7.0, 2000, 2005
Microsoft Access	97, 2000, 2002, 2003
MySQL	3.x, 4.x, 5.x
IBM DB2 UDB	8 and 9
Teradata	12











## **SQL Developer Migrations Roadmap**

- Current platforms
  - Microsoft SQL Server, Microsoft Access, MySQL, Sybase Adaptive Server, IBM DB2 UDB, Teradata
- Future Releases
  - Additional third party database support
    - JDBC and ODBC support
    - IBM DB2 ZSeries/iSeries
    - Informix Dynamic Services
  - Visual modeling of captured and converted data
  - Migration verifier integration Is your migrated data intact?
  - VLDB data move support
  - Application migration support

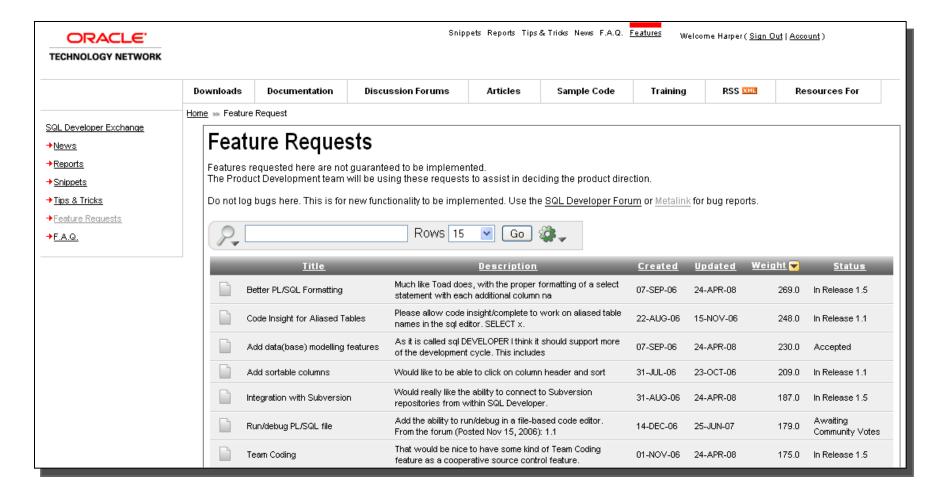
## **Finding More Detail**

www.oracle.com/technology/products/database/sql\_developer

- SQL Developer on OTN
  - White papers, Oracle by Example (OBE) and online demos
  - Team Blogs: <u>Blogs, Magazine Articles & Podcasts</u>
  - http://www.oracle.com/technology/products/database/sql\_developer
- SQL Developer Exchange
  - Share reports, snippets, code, and add feature requests
  - http://sqldeveloper.oracle.com
- Forums
  - SQL Developer http://forums.oracle.com/forums/forum.jspa?forumID=260
  - Migration Workbench
    <a href="http://forums.oracle.com/forums/forum.jspa?forumID=1">http://forums.oracle.com/forums/forum.jspa?forumID=1</a>
- Migration Sites
  - http://otn.oracle.com/migration

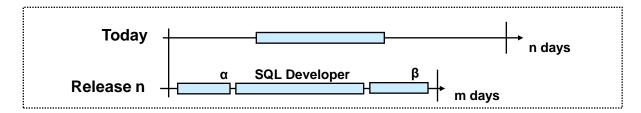
## **SQL** Developer Exchange

http://sqldeveloper.oracle.com



## **Summary**

- Migration to Oracle is easy, configurable, faster and repeatable
- All data sources supported
- One development tool for all databases
- Migration Technology Center: http://otn.oracle.com/migration
- SQL Developer Page: http://sqldeveloper.oracle.com
- SQL Developer Forum: http://forums.oracle.com/forums/forum.jspa?forumID=260



### For More Information

## search.oracle.com

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