

Oracle 11g New Features



presentation for:
Northern California Oracle Users Group
Fall Conference 2007

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Who am I?

- Daniel Morgan
- Oracle Ace Director 
- University of Washington 
 - Wrote UW Oracle curricula
 - Primary program instructor - 7 years
- Education Chair: PSOUG 
- Member: UKOUG 
- Frequent speaker – OOW and user group events
- 10g, 11g, and TimesTen Beta tester
- Oracle since version 6
- Too many years of Fortran and COBOL
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Additional Resources

SQL University

www.sqluniversity.net



Streaming Video

Morgan's Library

www.psoug.org

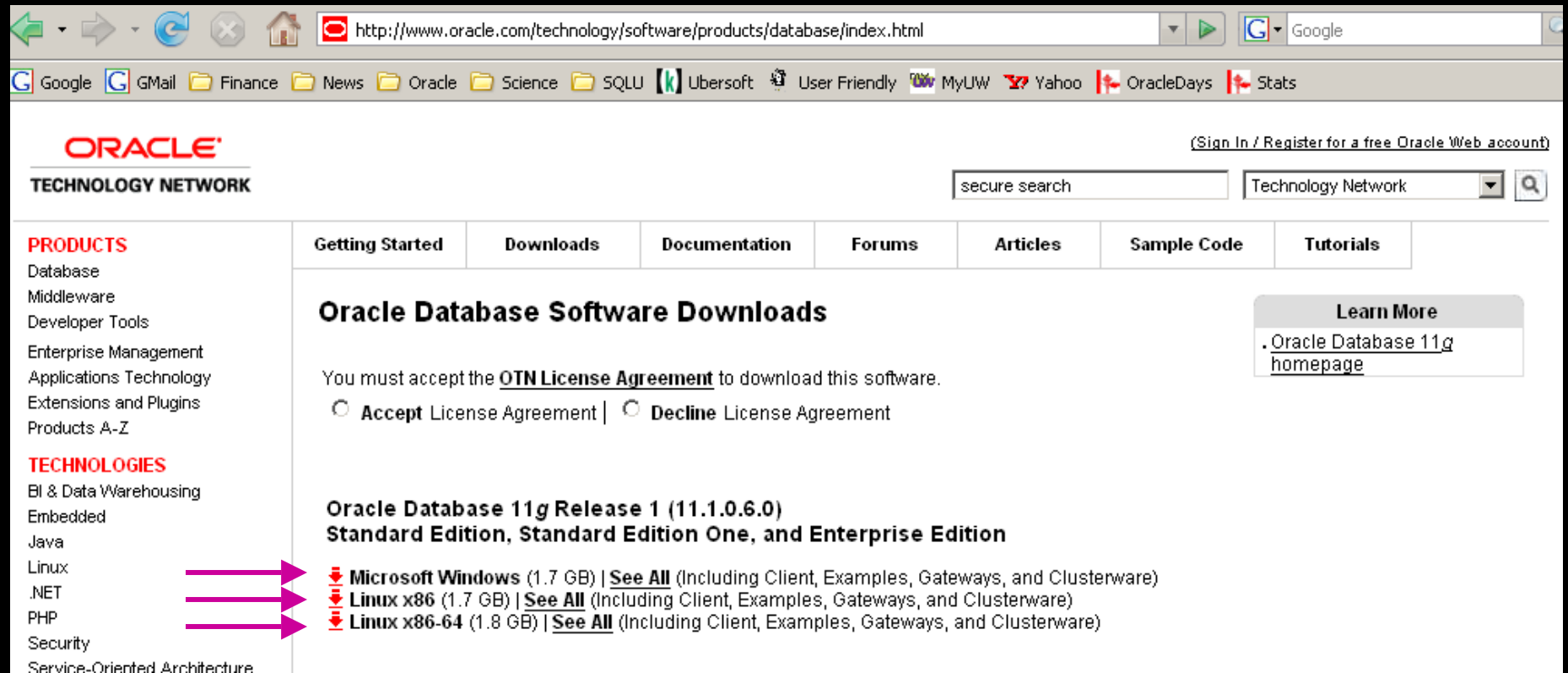
Demo Source Code



Daniel A. Morgan



11g Released



The screenshot shows the Oracle Technology Network website. The browser address bar displays <http://www.oracle.com/technology/software/products/database/index.html>. The page features the Oracle logo and "TECHNOLOGY NETWORK" header. A search bar is present with the text "secure search" and "Technology Network". The left sidebar lists "PRODUCTS" (Database, Middleware, Developer Tools, Enterprise Management, Applications Technology, Extensions and Plugins, Products A-Z) and "TECHNOLOGIES" (BI & Data Warehousing, Embedded, Java, Linux, .NET, PHP, Security, Service-Oriented Architecture). The main content area is titled "Oracle Database Software Downloads" and includes a "Learn More" button with a link to "Oracle Database 11g homepage". Below this, it states "You must accept the OTN License Agreement to download this software." with radio buttons for "Accept License Agreement" and "Decline License Agreement". The section "Oracle Database 11g Release 1 (11.1.0.6.0) Standard Edition, Standard Edition One, and Enterprise Edition" lists download links for "Microsoft Windows (1.7 GB)", "Linux x86 (1.7 GB)", and "Linux x86-64 (1.8 GB)", each with a "See All" link. Three pink arrows point from the "Linux" technology category in the sidebar to the Linux download links.

PRODUCTS
Database
Middleware
Developer Tools
Enterprise Management
Applications Technology
Extensions and Plugins
Products A-Z

TECHNOLOGIES
BI & Data Warehousing
Embedded
Java
Linux
.NET
PHP
Security
Service-Oriented Architecture

Getting Started | **Downloads** | **Documentation** | **Forums** | **Articles** | **Sample Code** | **Tutorials**

Oracle Database Software Downloads

(Sign In / Register for a free Oracle Web account)

secure search Technology Network

Learn More
[Oracle Database 11g homepage](#)

You must accept the [OTN License Agreement](#) to download this software.

☐ **Accept** License Agreement | ☐ **Decline** License Agreement

Oracle Database 11g Release 1 (11.1.0.6.0) Standard Edition, Standard Edition One, and Enterprise Edition

- Microsoft Windows (1.7 GB) | [See All](#) (Including Client, Examples, Gateways, and Clusterware)
- Linux x86 (1.7 GB) | [See All](#) (Including Client, Examples, Gateways, and Clusterware)
- Linux x86-64 (1.8 GB) | [See All](#) (Including Client, Examples, Gateways, and Clusterware)

<http://otn.oracle.com>



This what I am not going to talk about

- Simple Integer Data Type
- Invisible Indexes
- Read Only Tables
- Composite Partitioning (new types)
- Interval Partitioning
- Partition by Reference
- New PL/SQL Sequence syntax
- LOB Deduplication
- LOB Encryption
- SELECT FOR UPDATE SKIP LOCKED
- PIVOT and UNPIVOT
- PL/SQL Continue
- Mixed PL/SQL Notation
- DBMS_AUTO_TASK_ADMIN
- DBMS_AW_STATS
- DBMS_COMPARISON
- DBMS_CONNECTION_POOL
- DBMS_CQ_NOTIFICATIONS
- DBMS_CSX_ADMIN – TTS w/ binary info
- DBMS_EDITIONS_UTILITIES
- DBMS_HM (Health Management)
- DBMS_HPROF (Hierarchical Profiler)
- DBMS_IR (RMAN Repair)
- DBMS_LOB
- DBMS_LOBUTIL
- DBMS_MANAGEMENT_PACKS
- DBMS_METADATA
- DBMS_NETWORK_ACL_ADMIN (Access Control List)
- DBMS_SESSION
- DBMS_SPM (SQL Plan Management)
- DBMS_SQLDIAG
- DBMS_SQLPA (Predict environment changes impact)
- DBMS_STATS (beyond your imagination)
- DBMS_STORAGE_MAP (FMON API)
- DBMS_WLM (Workload Management)
- DBMS_WORKLOAD_CAPTURE
- DBMS_WORKLOAD_REPLAY
- DBMS_WORKLOAD_REPOSITORY (AWR)
- DBMS_XA (XA/Open interface access)
- DBMS_XPLAN (Explain Plan improvements)
- Automated Diagnostic Repository (ADR / ADRCI)
- Data Guard
- RAC
- Streams
- New AWR Reports
- Object Redefinition
- Pragma INLINE
- Real Application Testing (RAT)
- RESULT CACHE
- SecureFiles
- and much much more



11g New Features

- Architecture ... bdump and udump are gone
 - So are svrmgr, rollback segments, and RBO so get over it. <g>
- Tables
 - Compression
 - Virtual Columns
- Table Triggers
 - Compound Triggers
 - Follows Clause
- Native Compilation
- Total Recall with Flashback Archive
- New PLW warning messages
- DBMS_FLASHBACK.TRANSACTION_BACKOUT



Health Warning

Due to complaints made to the Surgeon General's office ...



You are now entering ...

... a ...

