

# Oracle 11g New Features for Developers







presentation for:  
Utah Oracle Users Group

Daniel A. Morgan



# 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
- Contact: [damorgan@u.washington.edu](mailto:damorgan@u.washington.edu)



# Additional Resources

SQL University

[www.sqluniversity.net](http://www.sqluniversity.net)

Streaming Video

The screenshot shows the homepage of SQL University. At the top, it says "WELCOME TO SQL UNIVERSITY.NET A PASSION FOR EDUCATION". Below this is a banner image of people in a classroom setting. The main content area is titled "SQL UNIVERSITY DELIVERS:" and lists several benefits: "Streaming Video of live lectures and demos...not slow death by PowerPoint", "The best Oracle and SQL and PL/SQL education available.", "Online instruction from the best educators in the world", "Oracle 10g and 11g database instruction", and "Real world challenges. Real world solutions." There is a link to "Click here for free lectures and demos by Oracle Ace Dan Morgan". Below this are two small portrait photos of men.

Morgan's Library

[www.psoug.org](http://www.psoug.org)

Demo Source Code

The screenshot shows the website for the Puget Sound Oracle Users Group (PSOUG). The header includes the group name and a "2007 - 2008 Calendar" with a navigation bar for months from Sep to Aug. Below the calendar is a "News & Events" section. The main event is titled "11g HANDS-ON PREVIEW" and is scheduled for October 10th at the Meydenbauer Center. The text describes the event as a "one day 11g Hands-on Preview live in 11gR1" and mentions that it will be taught in two sections: a no-code section and a hands-on section. It also states that the event is for everyone, including managers, and that there will be no marketing and no sales. The event is led by Oracle Ace Director and 11g beta tester, Daniel Morgan. A link to "Click Here To See The Schedule and to Register" is provided. Below the event description is a table with links to "Project Lockdown", "Oracle Pressroom", "OTN News", "OAUUG News", and "IOUGC News". At the bottom, there is a "Click Here to Register" link and a note that proceeds from the event will be used to purchase 4 new servers for the PSOUG lab to support their new E-Business Suite and SOA classes. The cost is \$250/person.



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# This what I am not going to talk about - tonight

- Simple Integer Data Type
- Compressed Tables
- Read Only Tables
- Virtual Columns
- Invisible Indexes
- SELECT FOR UPDATE SKIP LOCKED
- Composite Partitioning
- PIVOT
- UNPIVOT
- Mixed PL/SQL Notation
- DBMS\_AUTO\_TASK\_ADMIN
- DBMS\_COMPARISON
- DBMS\_CONNECTION\_POOL
- DBMS\_CQ\_NOTIFICATIONS
- DBMS\_CSX\_ADMIN – TTS w/ binary info
- DBMS\_EDITIONS\_UTILITIES
- DBMS\_HPROF
- DBMS\_IR (RMAN Repair)
- DBMS\_LOB
- DBMS\_LOBUTIL
- DBMS\_MANAGEMENT\_PACKS
- DBMS\_METADATA
- DBMS\_SESSION
- DBMS\_SPM (SQL Plan Management)
- DBMS\_SQLDIAG
- DBMS\_STATS (beyond your wildest imagination)
- DBMS\_STORAGE\_MAP (FMON API)
- DBMS\_WLM
- DBMS\_WORKLOAD\_CAPTURE
- DBMS\_WORKLOAD\_REPLAY
- DBMS\_WORKLOAD\_REPOSITORY (AWR)
- DBMS\_XA (XA/Open interface access)
- DBMS\_XPLAN (Explain Plan improvements)
- Compound Triggers
- Continue Statement
- PL/SQL PLW Warnings
- PRAGMA INLINE
- Result Cache
- Securefiles (LOB deduplication & encryption)
- Table Triggers (FOLLOWS Clause)
- Total Recall with Flashback Archive



# 11g New Features

- Tables
  - Compression
  - Virtual Columns
- Indexes
  - Invisible Indexes
- Table Triggers
  - Compound Triggers
  - Follows Clause
- PL/SQL
  - New Sequence Syntax
  - CONTINUE
- Native Compilation
- PLW Warnings
- Interval Partitions



# Health Warning

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



You are now entering ...

... a ...

~~Free Zone~~  
PowerPoint

