

# 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
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# Additional Resources

SQL University

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

Streaming Video

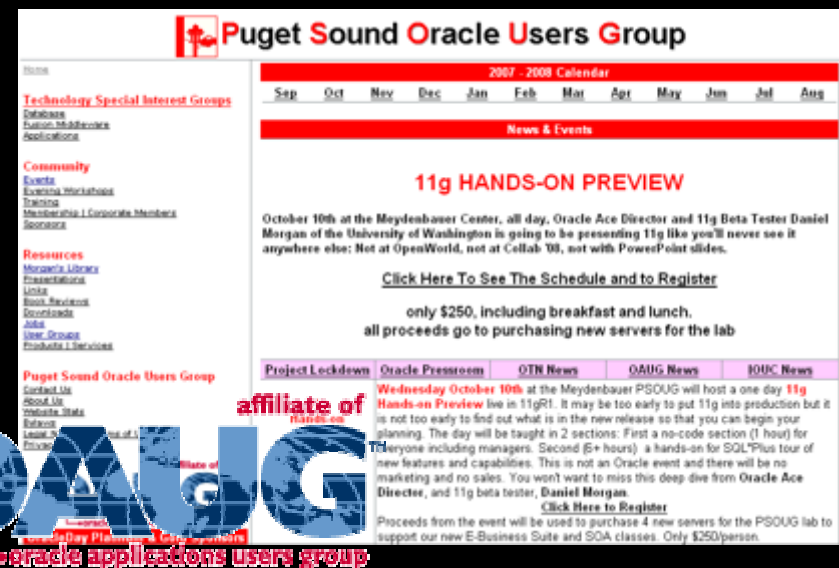


The screenshot shows the homepage of SQL University. At the top, it says "WELCOME TO SQL UNIVERSITY.NET A PASSION FOR EDUCATION". Below this is a banner image of people in a classroom setting. The main content area is titled "SQL UNIVERSITY DELIVERS:" and lists several benefits: "Streaming Video of live 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". On the left side, there is a navigation menu with links: HOME, LIST OF CLASSES, SAMPLE COURSES, AFFILIATES, INSTRUCTOR CLIENT LIST, ABOUT SQL UNIVERSITY, CONTACT, and PRIVACY.

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 (1 hour) for everyone including managers, and a hands-on for SQL\*Plus tour of new features and capabilities (6+ hours). The event is led by Oracle Ace Director and 11g beta tester, Daniel Morgan. There is a link to "Click Here To See The Schedule and to Register" and another link to "Click Here to Register". The price is listed as "only \$250, including breakfast and lunch, all proceeds go to purchasing new servers for the lab". At the bottom, there is a "Project Lockdown" section with a link to "Oracle Pressroom" and "OTN News".



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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

