


## The Latest Oracle 11g Gems

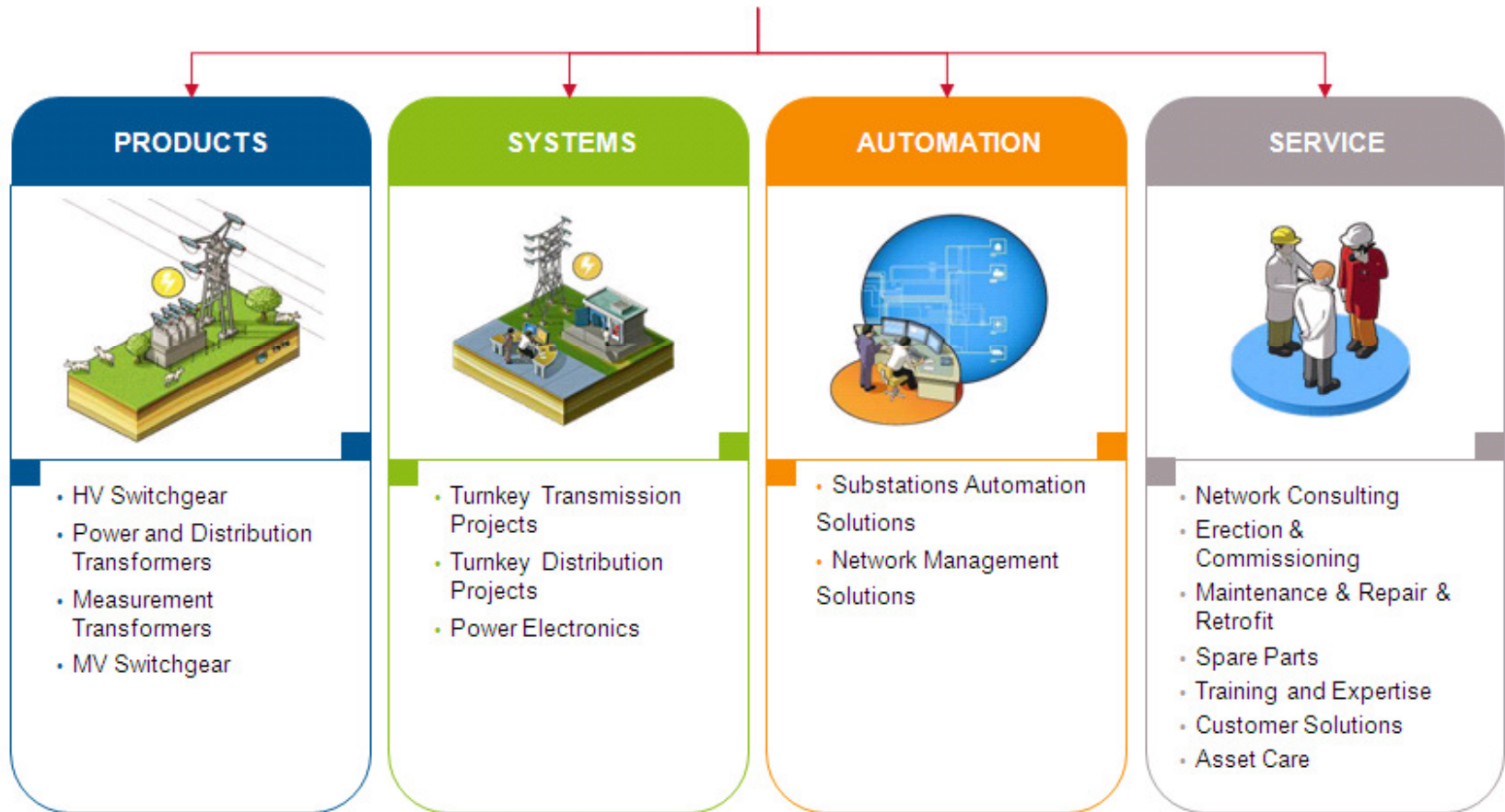


*presentation for:*  
**Northern California Oracle Users Group**  
*Summer Conference 2009*

- ▶ Oracle Database ACE Director (1 of ~40 worldwide) 
- ▶ University of Washington Oracle Instructor (10 yrs)
- ▶ Morgan of Morgan's Library on the web
  - ◆ <http://morganslibrary.org>
- ▶ Member UKOUG and Oracle Applications User Group
- ▶ Frequent speaker at international conferences
  - ◆ OpenWorld, Collaborate, Kaleidoscope, Chile, Finland, Germany, Japan, Norway, UK, and US
- ▶ Beta tester for Oracle and TimesTen Databases

# AREVA Transmission & Distribution

## AREVA T&D



# *Traveling around the world*



# *The ACEs in Santiago with Gloria Estefan*




*Seeing the sights closer to home*



## *What I did not tell Oracle*









## Morgan's Library

[www](#) [library](#)

**New Oracle 11g Videos ... Coming Soon ... To An Internet Connection Near You ... And They Will Be Free!**

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<p><b>Library News</b></p> <ul style="list-style-type: none"> <li><a href="#">Morgan's Notepad vi (Blog)</a></li> <li><a href="#">Oracle 11gR2 is coming soon ... free videos too</a></li> <li><a href="#">Morgan's Oracle Podcast</a></li> <li><a href="#">DBA Best Practice Guidelines</a></li> <li><a href="#">Bryn Llewellyn's 2009 White Paper</a> <span style="background-color: red; color: white; padding: 2px 5px; font-size: x-small;">NEW</span></li> <li><a href="#">Troubleshooting Performance</a></li> <li><b>Translators Wanted:</b>                  We want to translate Morgan's Library into multiple languages. Contact us if you would like to help with the project.</li> </ul>	<p><b>ACE News</b></p> <p style="text-align: center;"> <b>Would you like to become an Oracle ACE?</b> </p> <p style="text-align: center;">Please help us find more ACEs in our community.</p> <ul style="list-style-type: none"> <li><a href="#">ACE Directory</a></li> <li><a href="#">ACE Google Map</a></li> <li><a href="#">ACE Nomination Form</a></li> </ul> <p style="text-align: center; font-size: small;">                 A special congratulations to the newest ACE                  Alex Gorbachev: <a href="#">BLOG</a> / <a href="#">Profile</a> </p>		

Morgan's 2009 – 2010 Calendar

Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul

www.morganslibrary.org

Demo Source Code



## Oracle Events

- Oracle Fusion Middleware 11g Forum: Portland
- Oracle Fusion Middleware 11g Forum: Seattle
- Oracle OpenWorld - Oct 11-15, San Francisco

**ORACLE  
OPEN  
WORLD**

Be sure to sign up for **Session S307422**  
**Oracle Advanced Compression in Oracle**  
**Database 11g Release 2:**  
**Value/Performance**

- ▶ **Predefined Inquiry Directives**
- ▶ **Looking inside a Weakly Typed REF CURSOR**
- ▶ **A newly discovered INSTEAD OF Triggers bug**
- ▶ **Capturing Colored SQL with the AWR**
- ▶ **Tail the ALERT\_LOG with ADRCI**
- ▶ **Change Management and DBMS\_METADATA\_DIFF**
- ▶ **The Workspace Management (WM) Functions**

**Full source code for all demos  
is at [www.morganslibrary.org](http://www.morganslibrary.org)**

## *Predefined Inquiry Directives*

```
BEGIN
  NULL;
  NULL;
  NULL;
  dbms_output.put_line('');
END;
/
```

```
CREATE OR REPLACE PROCEDURE test IS
BEGIN
  dbms_output.put_line('I am ' || ' ');
END test;
/
```

## *Weakly Typed REF CURSORS*

```
DECLARE
  refcur SYS_REFCURSOR;
  h      NUMBER;
  cnt    NUMBER;
  ret    dbms_sql.desc_tab;
BEGIN
  OPEN t_retcursor FOR
  SELECT * FROM airplanes;

  h := dbms_sql.to_cursor_number(refcur);

  dbms_sql.describe_columns(h, cnt, ret);
  print_desc_tab(ret);
  dbms_sql.close_cursor(h);
END demo;
/
```

## *INSTEAD-OF Trigger Bug*

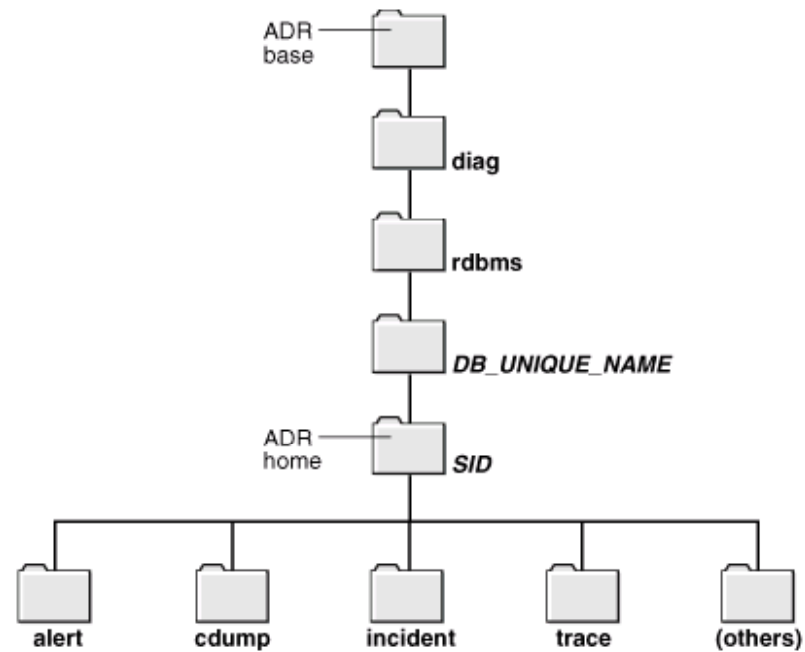
```
SQL> SELECT empno, val * val FROM (  
2     SELECT 2 empno, sal/SUM(comm)  
3     OVER (PARTITION BY deptno) val  
4     FROM t)  
ORDER BY 1;
```

- ▶ When a SQL ID is colored, it will always be captured in every AWR snapshot
- ▶ Even if it is not a TOP SQL
- ▶ Capture occurs if the SQL is found in the cursor cache at snapshot time

```
dbms_workload_repository.add_colored_sql('5rygsj4dbw6jt');
```

```
dbms_workload_repository.remove_colored_sql('5rygsj4dbw6jt');
```

## Tailing the Alert Log with ADRCI



```
adrci> show home
```

```
adrci> set homepath diag\rdbms\orabase\orabase
```

```
adrci> show alert -tail -f
```

## *Change Management w/ DBMS\_METADATA\_DIFF*

- ▶ This package is officially undocumented. Use is restricted to Oracle internal users only and requires a license to the OEM Change Management option. The package is an API to `dbms_metadata_int` functions.

```

DECLARE
  c CLOB;
BEGIN
  SELECT dbms_metadata_diff.compare_alter('TABLE',
    'SERVERS', 'SERV_INST', USER, USER)
    INTO c
    FROM dual;

  dbms_output.put_line(c);
  dbms_advisor.create_file(c, 'CTEMP', 'compalter.txt');
END;
/

```



## Workspace Management (WM) Functions

WM_CONCAT	Cross-tabulates a comma delimited list
WM_CONTAINS	Checks if the first period contains the second period
WM_EQUALS	Checks if two periods are equal
WM_GREATERTHAN	Checks if the start of the first period is greater than the end of the second period
WM_INTERSECTION	Returns the range common to two periods
WM_LDIF	Returns the difference (on the left) between periods
WM_LESSTHAN	Checks if the end of the first period is less than the start of the second period
WM_MEETS	Checks if the end of the first period is the start of the second period
WM_OVERLAPS	Checks if two periods overlap
WM_RDIF	Returns the difference (on the right) between periods



*You are now entering a ...*



▶ **Oracle Technology Network**

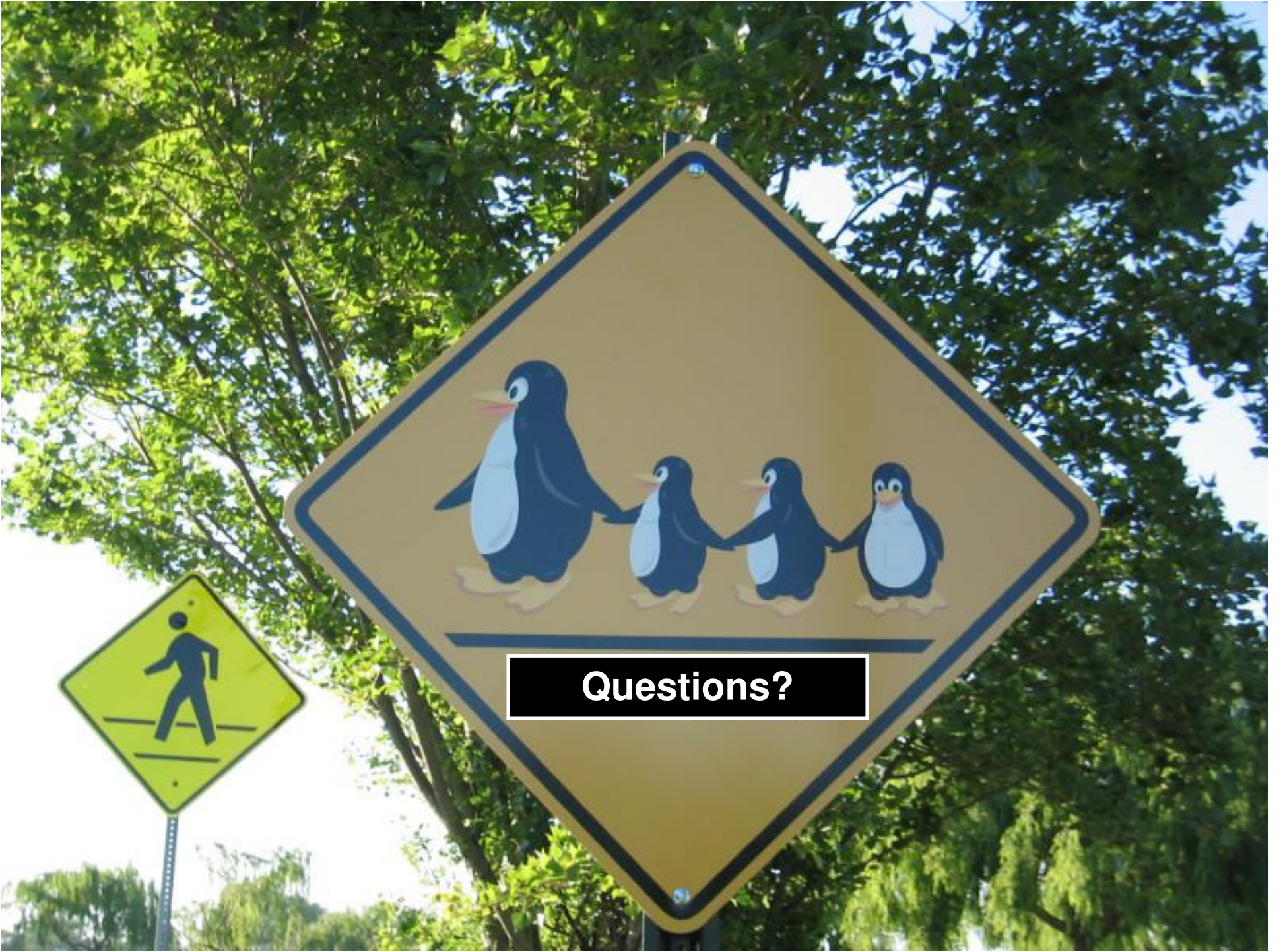
◆ [www.oracle.com/technology/deploy/availability](http://www.oracle.com/technology/deploy/availability)

▶ **Morgan's Library**

◆ [www.morganslibrary.org](http://www.morganslibrary.org)

▶ **Tom Kyte**

◆ <http://asktom.oracle.com>



**Questions?**



**Thank you**