

The Latest Oracle 11g Gems

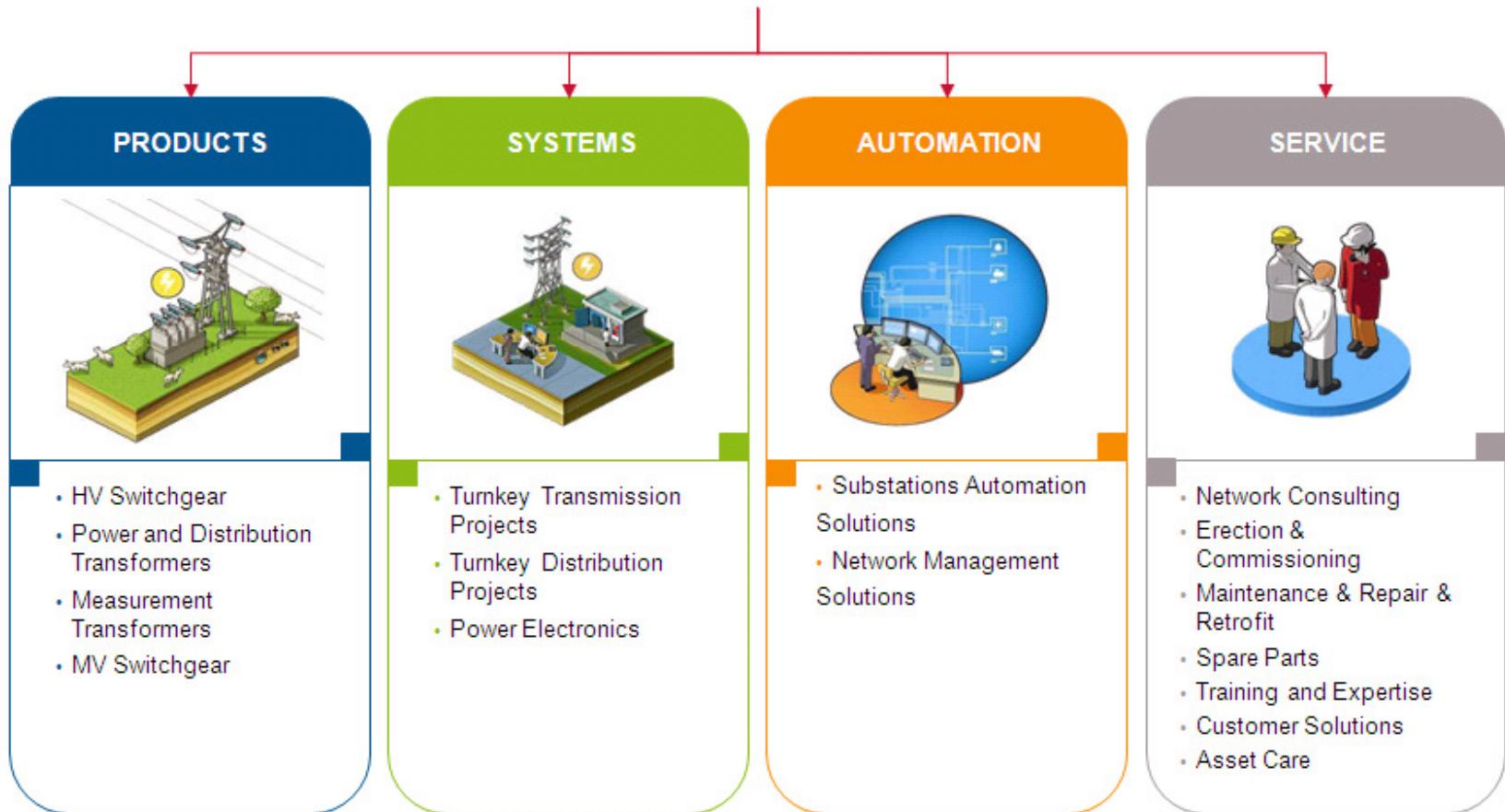


presentation for:
Northern California Oracle Users Group
Fall Conference 2009

- ▶ 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

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Traveling around the world



The ACEs in Santiago with Gloria Estefan



Seeing the sights closer to home



What I did not tell Oracle





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Alas poor Stanley



can only dream

Morgan



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Training Events

- [NoCOUG - Aug 20, San Ramon, California](#)
- [NWUG - Sep 15, Portland, Oregon](#)
- [Oracle ClosedWorld - Oct 11-15, San Francisco](#)
- [Miracle 9th Anniversary - Oct 30, Ballerup, DK](#)
- [OUGF - Nov 5, Helsinki, Finland](#)
- [UKOUG - Nov 30 - Dec 2, Birmingham, UK](#)

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

Library News

- [Morgan's Notepad vi \(Blog\)](#)
- [Oracle 11gR2 is coming soon ... free videos too](#)
- [Morgan's Oracle Podcast](#)
- [DBA Best Practice Guidelines](#)
- [Bryn Llewellyn's 2009 White Paper](#) NEW
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We want to translate Morgan's Library into multiple languages. Contact us if you would like to help with the project.

ACE News

Would you like to become an Oracle ACE? 

Please help us find more ACEs in our community.

- [ACE Directory](#)
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A special congratulations to the newest ACE
Alex Gorbachev: [BLOG](#) / [Profile](#)

Morgan's 2009 – 2010 Calendar

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

- ▶ **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**

Predefined Inquiry Directives

```
BEGIN
    NULL;
    NULL;
    NULL;
    dbms_output.put_line($$plsql_line);
END;
/
```

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

Weakly Typed REF CURSORS

```
DECLARE
  refcur  SYS_REFCURSOR;
  h       NUMBER;
  cnt    NUMBER;
  ret    dbms_sql.desc_tab;
BEGIN
  OPEN t_retcur 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

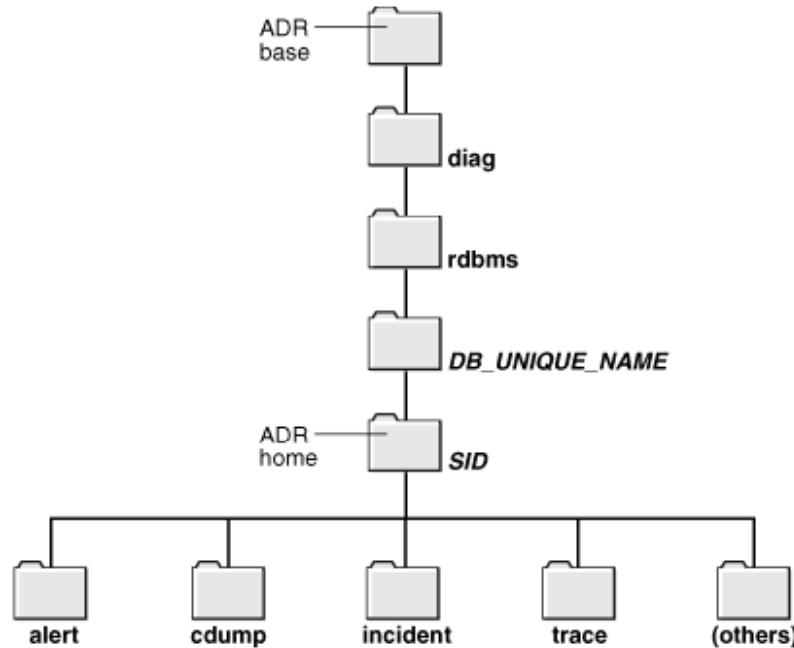
```
SQL> SELECT empno, val * val FROM (
  2      SELECT 2 empno, sal/SUM(comm)
  3          OVER (PARTITION BY deptno) val
  4      FROM t)
  4  ORDER BY 1;
```

- ▶ 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.

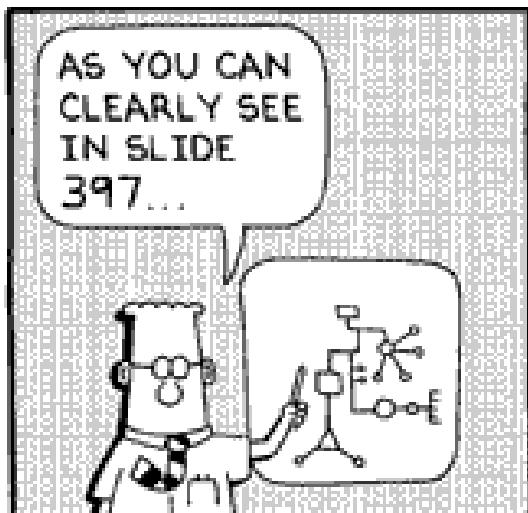
```
DECLARE
  c CLOB;
BEGIN
  SELECT dbms_metadata_diff.compare_alter('TABLE',
    'SERVERS', 'SERV_INST', USER, USER)
  INTO c
  FROM dual;

  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_LDIFF	Returns the difference (on the left) between periods
WM_LESS THAN	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_RDIFF	Returns the difference (on the right) between periods

Health Warning



You are now entering a ...



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Questions?



Thank you