

RMOUG TRAINING DAYS

February 11-13, 2013 Denver, Colorado  
Colorado Convention Center



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

THE COLLEGEATE PEAKS. PHOTO COURTESY OF JOHN KONG, RMOUUG MEMBER

# New Features in Database 12c you won't hear about ... from Oracle

Daniel Morgan | [damorgan12c@gmail.com](mailto:damorgan12c@gmail.com) | [morganslibrary.org](http://morganslibrary.org)

New Features in Database 12c You Won't Hear About From Oracle

Presented: Rocky Mountain Oracle User Group - 13 January, 2013

# Disclaimer

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- This room is an unsafe harbour
- No one from Oracle has previewed this presentation
- No one from Oracle knows what I'm going to say
- No one from Oracle has supplied any of my materials
  
- This discussion is about a Beta and I am going to be very ... VERY ... careful to show you only what has been demonstrated at OpenWorld so as not to violate my NDA
  
- But what I am going to emphasize is precisely those things you need to know to move forward with 12c and with your career

# Daniel A. Morgan

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Oracle ACE Director



Consultant to Harvard University



University of Washington Oracle Instructor, ret.



The Morgan of Morgan's Library on the web



Board Member: Western Washington OUG



Executive Board: Vancouver/Victoria OUGs

## ■ Upcoming Presentations

- Feb 18: Victoria, BC
- Feb 19: Vancouver BC
- Mar 13-14: Utah Oracle Users Group
- Apr 15-17: Oracle User Group Finland
- Apr 17-20: Oracle User Group Norway
- May 15 Oracle User Group Azerbaijan
- May 19 Bulgarian Oracle User Group



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# Mad Dog Morgan

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# PhD Level SQL Injection

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# Morgan's Library: [www.morganslibrary.org](http://www.morganslibrary.org)

 **Morgan's Library**

**Morgan's 2012 - 2013 Calendar**

Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
[ <a href="#">don't censor the web</a> ]						[ <a href="#">don't be silent</a> ]					

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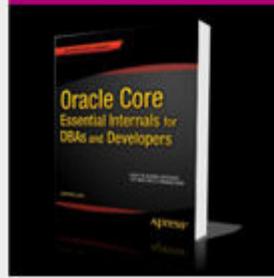
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- [RMOUG Training Days - Feb 14 - 16, 2012](#)
- [VanOUG Canada - Feb 23, 2012](#)
- [OUGN: Oslo, Norway - Mar 21 - 24, 2012](#)
- [BeNeLux Connect: Maastricht - Apr 24, 2012](#)
- [OUG Harmony Finland - May 30 - 31, 2012](#)
- [OUG Harmony Latvia - Jun 01, 2012](#)

**Morgan**   
aboard USA-71

**Library News**

- [Morgan's Notepad vi \(Blog\)](#)
- [Join the Western Washington OUG](#)
- [Morgan's Oracle Podcast](#)
- [US Government STIGs \(Security Checklists\)](#)
- [Bryn Llewellyn's PL/SQl White Paper](#)
- [Bryn Llewellyn's Editioning White Paper](#)
- [Explain Plan White Paper](#)
- [Troubleshooting Performance](#)

**Oracle Events** 

**Next Event: RMOUG Denver, CO Feb 14-16**

**ACE News**

Would you like to become an Oracle ACE? 

[Learn more about becoming an ACE](#)



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- [ACE Google Map](#)
- [ACE Program](#)
- [Stanley's Blog](#)

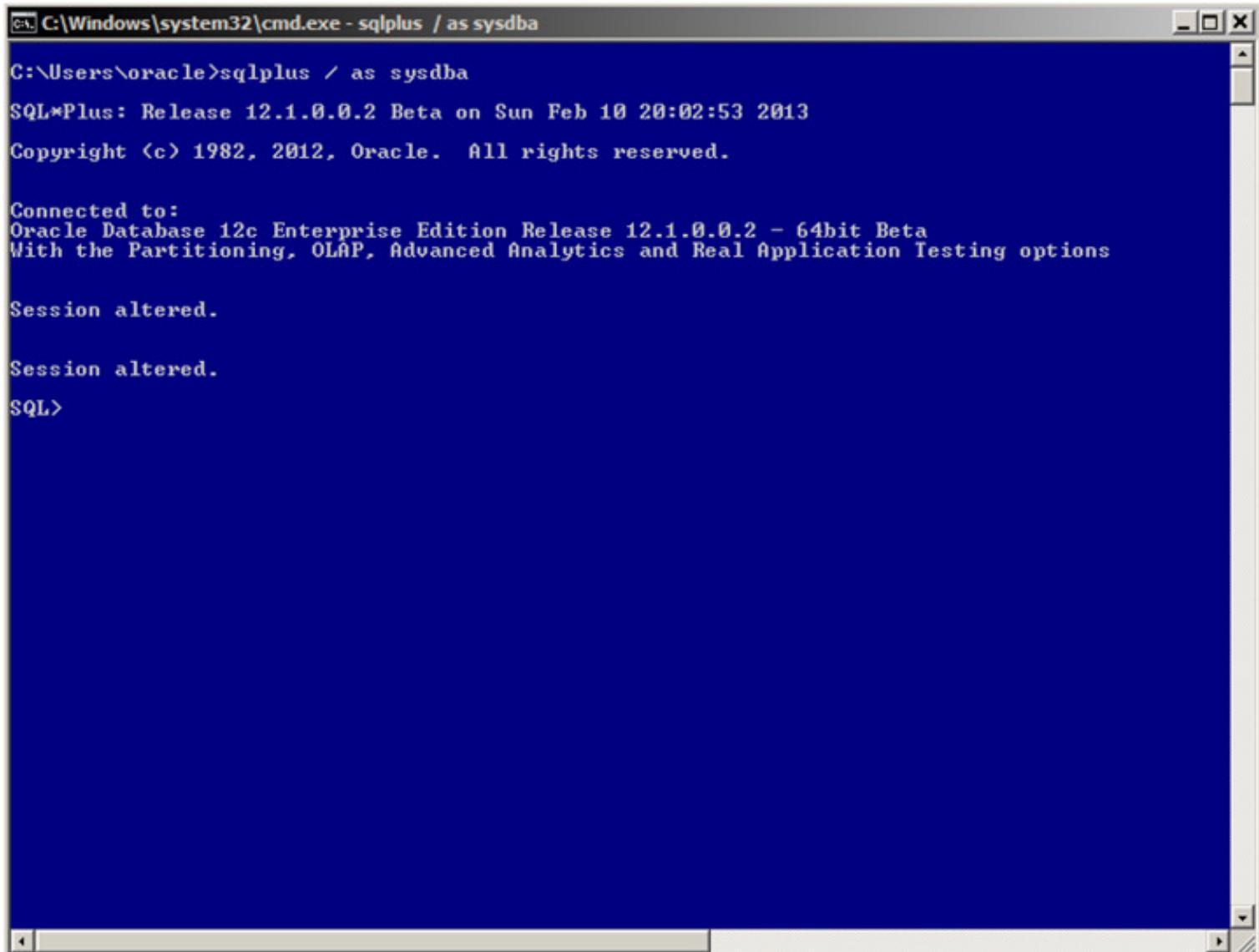
**Congratulations to our newest ACEs**

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# Slide 1 of 4



C:\Windows\system32\cmd.exe - sqlplus / as sysdba

```
C:\Users\oracle>sqlplus / as sysdba
SQL*Plus: Release 12.1.0.0.2 Beta on Sun Feb 10 20:02:53 2013
Copyright (c) 1982, 2012, Oracle. All rights reserved.

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.0.2 - 64bit Beta
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

Session altered.

Session altered.

SQL>
```

# Slide 2 of 4

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- Oracle has changed fundamental constructs at a level not seen since version 6.0
- Presentation take-aways
  - Container Database (CDB)
  - Pluggable Database (PDB)
  - Engage in pessimistic assumption making
  - Stop using the DBA and SYSDBA roles inappropriately
  - Throw away DBA tools not certified compatible with 12cR1
  - If you are a DBA with 20+ years experience ... you MUST read the docs: Not doing so is not an option

# Slide 3 of 4

```
prompt Specify CONTAINER name (eg: NAME from V$PDBS) report target:  
prompt Defaults to NULL: (% and _ wildcards allowed)  
prompt CONTAINER report target specified: &&target_container  
  
Rem      svivian      01/24/12 - bug 13603747: some procedures must be called from  
Rem                                         pdb root  
  
#      akruglik      05/11/11 - change container query to fetch from container$;  
#                                         open pdb$seed read/write; wait for auxiliary  
#                                         process to terminate before resetting CHLD signal  
#                                         handler  
  
SQL> SELECT COUNT(*)  
  2  FROM dba_objects  
  3  WHERE object_name like '%PDB%';  
  
COUNT(*)  
-----  
        40  
  
SQL> SELECT COUNT(*)  
  2  FROM dba_tab_cols  
  3  WHERE column_name LIKE '%PDB%';  
  
COUNT(*)  
-----  
        122
```

# Slide 4 of 4

```
SQL> desc v$active_services
Name          Null?    Type
-----  -----
SERVICE_ID          NUMBER
NAME            VARCHAR2 (64)
NAME_HASH          NUMBER
NETWORK_NAME        VARCHAR2 (512)
CREATION_DATE        DATE
CREATION_DATE_HASH    NUMBER
GOAL            VARCHAR2 (12)
DTP              VARCHAR2 (1)
BLOCKED          VARCHAR2 (3)
AQ_HA_NOTIFICATION    VARCHAR2 (3)
CLB_GOAL          VARCHAR2 (5)
COMMIT_OUTCOME        VARCHAR2 (3)
RETENTION_TIME        NUMBER
REPLAY_INITIATION_TIMEOUT    NUMBER
SESSION_STATE_CONSISTENCY    VARCHAR2 (30)
GLOBAL            VARCHAR2 (3)
CON_NAME          VARCHAR2 (30)
SQL_TRANSLATION_PROFILE    VARCHAR2 (65)
MAX_LAG_TIME          VARCHAR2 (30)
CON_ID            NUMBER
```

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**The balance of this presentation will be unscripted  
and will not be available in any published form  
until after the product is released.**

**... now it's time to get serious**

# Questions

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**ERROR at line 1:  
ORA-00028: your session has been killed**



Thank you