

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

# 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 after it is released

# 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

- Apr 17-20: Oracle User Group Norway
- May 15 Oracle User Group Azerbaijan
- May 19 Bulgarian Oracle User Group



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zSeries  
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# Mad Dog Morgan






# PhD Level SQL Injection

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### Oracle Core



### Training Events


- [Harvard University](#) - Feb 6 - 10, 2012
- [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

### Oracle Events




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

### Morgan



aboard USA-71





**ORACLE**  
ACE Director


### Library News

- [Morgan's Notepad vi \(Blog\)](#)
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- [Morgan's Oracle Podcast](#)
- [US Government STIGs \(Security Checklists\)](#)
- [Bryn Llewellyn's PL/SQL White Paper](#)
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- [Explain Plan White Paper](#)
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### ACE News

 Would you like to become an Oracle ACE? 

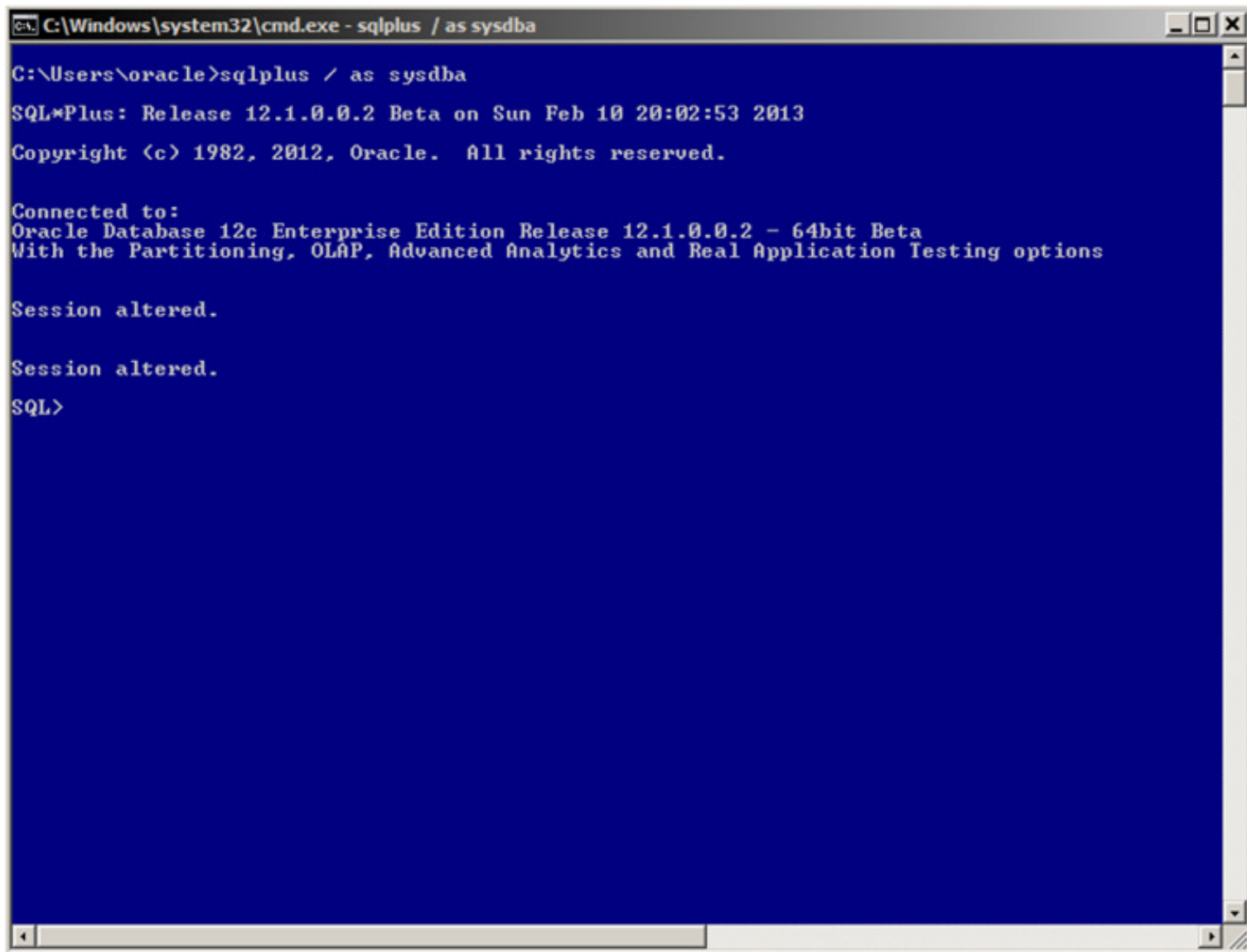
Learn more about becoming an ACE



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

Congratulations to our newest ACEs

# Slide 1 of 4

A screenshot of a Windows command prompt window. The title bar reads "C:\Windows\system32\cmd.exe - sqlplus / as sysdba". The window has a blue background with white text. The text inside shows the execution of the 'sqlplus / as sysdba' command, the SQL\*Plus version information (Release 12.1.0.0.2 Beta), copyright notice, connection status to Oracle Database 12c Enterprise Edition, and two 'Session altered.' messages. The prompt is currently at 'SQL>'.

```
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
  - The word "Database" has essentially lost all value except to create confusion
  - 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