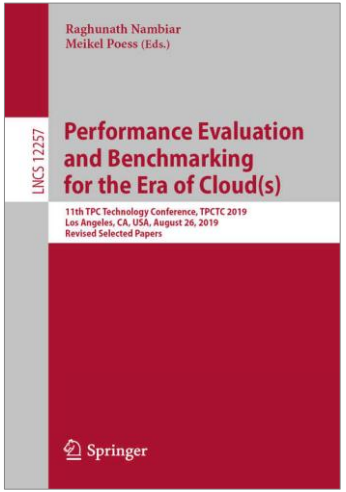
peakmarks

peakmarks® Installation
for Oracle 19c / 21c / 23c with CDB architecture



peakmarks® showcased its software at the 2019 TPC Technology Conference in Los Angeles.

peakmarks® Version 10.2
February 2024

Copyright Information

Agenda

1 Directory Organization

2 Environment Variables

3 Installation of Oracle Database

4 Database Organization

5 Installation of peakmarks® Schema

6 Installation of peakmarks® Software

7 Oracle Services for In-Memory Column Store Instance Affinity

8 Drop peakmarks® Schema

9 Summary of Scripts

Naming Conventions

Database name	ORA19C / ORA21C / ORA23c
Instance names	ORA19C / ORA21C / ORA23C for a single instance
	ORA19C1 / ORA21C1 / ORA23C1 for RAC instance 1
	ORA19C2 / ORA21C2 / ORA23C2 for RAC instance 2
peakmarks® PDB	PMK
Connect string SYSTEM user	system/manager@SYSAWR
Connect string peakmarks user	bench/bench@PMK
peakmarks® base directory	../pmk

Abbreviations and Metrics

[MBps]	megabyte per second
[GBps]	gigabyte per second
[dbps]	database blocks per second
[rbps]	redo blocks per second
[dbpt]	database blocks per transaction
[s]	seconds
[ms]	milliseconds
[µs]	microseconds
[IOPS]	I/O operations per second
[qps]	queries per second
[rps]	rows per second
[tps]	transactions per second
[kBpt]	kilobyte per transaction
[Mops]	million operations per second
Nodes	number of cluster nodes
Jobs	number of workload processes
BuCache	Database Buffer Cache
FlCache	Database or Exadata Flash Cache

In the following reports, the key performance metrics are marked red.

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Directory Organization

Directory Organization

The peakmarks® Software is delivered as a ZIP file

The location of the installation is called the peakmarks base directory

Create a peakmarks base directory and provide Oracle access to it, e.g.

- /u01/app/pmk
- c:/pmk

Use a shared file system on Oracle RAC systems, e.g.

- /acfs01/pmk

Directory Organization

When unpacking the ZIP file, the following directory structure is automatically created:

- ../pmk/awr for AWR reports
- ../pmk/bin for binaries and peakmarks specific SQL monitoring scripts
- ../pmk/cfg for peakmarks configuration files
- ../pmk/doc for peakmarks documentation
- ../pmk/log for working directory of SQL*Plus sessions
- ../pmk/sql for generic SQL monitoring scripts
- ../pmk/tmp for temporary files

Directory Organization

Protection on Linux systems

```
$ chown   –R oracle pmk
$ chgrp   –R oinstall pmk
$ chmod   –R 755 pmk
```

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Environment Variables

Environment Variables

Besides the conventional Oracle environment variables, two additional environment variables are necessary for peakmarks

- PEAKMARKS_BASE
- ORACLE_PATH (on Windows set registry variable SQLPATH instead)

In the peakmarks base directory are some example bash scripts for initializing all environment variables

- ../pmk/bash_profile_ORA19C ../bash_profile_ORA19C1 ../bash_profile_ORA19C2
- ../pmk/bash_profile_ORA21C ../bash_profile_ORA21C1 ../bash_profile_ORA21C2
- ../pmk/bash_profile_ORA23C ../bash_profile_ORA23C1 ../bash_profile_ORA23C2

Environment Variables

Example bash script for Linux environments

```
# !/bin/ksh
# ----------------------------------------------------------------------------------------------
#   Copyright © 2016 - 2024 peakmarks Ltd. All rights reserved.           support@peakmarks.com
# ----------------------------------------------------------------------------------------------
#
#   Config File....:    bash_profile_ORA19C1
#
#   Release........:    15-Feb-2024, PRO
#
#   Description....:    Oracle RDBMS environment variables for peakmarks® Software
#
#   Certified......:    -
#
#   Notes..........:    use shared directory for RAC installations, e.g. /acfs01/pmk
#
# ----------------------------------------------------------------------------------------------

# Oracle environment

export ORACLE_SID=ORA19C1
export ORACLE_HOME=/u01/app/oracle/product/19.0.0.0/dbhome_1
export PATH=$ORACLE_HOME/bin:$PATH

# peakmarks environment

export PEAKMARKS_BASE=/acfs01/pmk
export ORACLE_PATH=$PEAKMARKS_BASE/bin:$PEAKMARKS_BASE/sql
```

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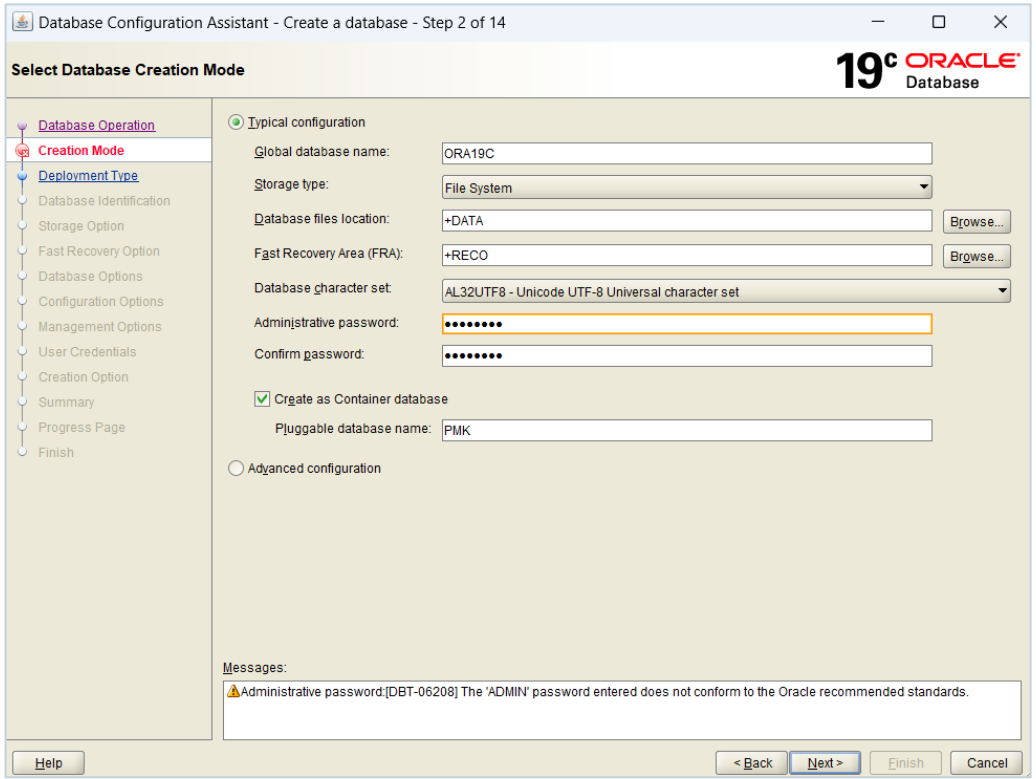
Installation of Oracle Database

Use DBCA to install Oracle database



Login as SYSDBA and test peakmarks environment

You should see the peakmarks header and SQL*Plus prompt with the username and instance name

```
$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Tue Jan 23 15:37:03 2024
Version 19.21.0.0.0

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Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.21.0.0.0

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SYS@ORA19C1 SQL>
```

Check database status

```
SYS@ORA19C1 SQL> @cdb

Tue 23-Jan-2024 15:42:05

Container Database
------------------

Oracle......:  19.21.0
Database....:  CDB$ROOT
Instance....:  ORA19C1
RAC nodes...:  1
Server......:  PMEXA01.LAB.LOCAL

          Container               Open                          Operating          CDB  Log          Force Flash Database DataGuard
Con# Ins# Database             DB# Mode       Creation          system             Arch mode         log?  back? in Cache status
---- ---- ---------- ------------ ---------- ----------------- ------------------ ---- ------------ ----- ----- -------- ---------
   0    1 ORA19C        1212038745 READ WRITE 21-JAN-2024 14:58 Linux x86 64-bit   YES  NOARCHIVELOG NO    NO    NO       NONE
   0    2 ORA19C        1212038745 READ WRITE 21-JAN-2024 14:58 Linux x86 64-bit   YES  NOARCHIVELOG NO    NO    NO       NONE

SYS@ORA19C1 SQL>
```

peakmarks uses Oracle Managed Files

Oracle Managed Files (OMF) MUST be configured to

- Create the pluggable peakmarks database
- Create the peakmarks tablespaces
- At least `db_create_file_dest` must be configured

```
SYS@ORA19C1 SQL> show parameter db_create

Parameter                                 Type         Value
----------------------------------------- ------------ ------------------------------------------
db_create_file_dest                       string       +DATA
db_create_online_log_dest_1               string       +DATA
db_create_online_log_dest_2               string       +RECO
db_create_online_log_dest_3               string
db_create_online_log_dest_4               string
db_create_online_log_dest_5               string

SYS@ORA19C1 SQL>
```

peakmarks does not support global database names

Unset global names and global database links (default in Oracle 19c on-premises)

```
SYS@ORA19C1 SQL> show parameter global

Parameter                                 Type         Value
----------------------------------------- ------------ -----------------------------------------
allow_global_dblinks                      boolean      FALSE
global_names                              boolean      FALSE
global_txn_processes                      integer      1

SYS@ORA19C1 SQL>
```

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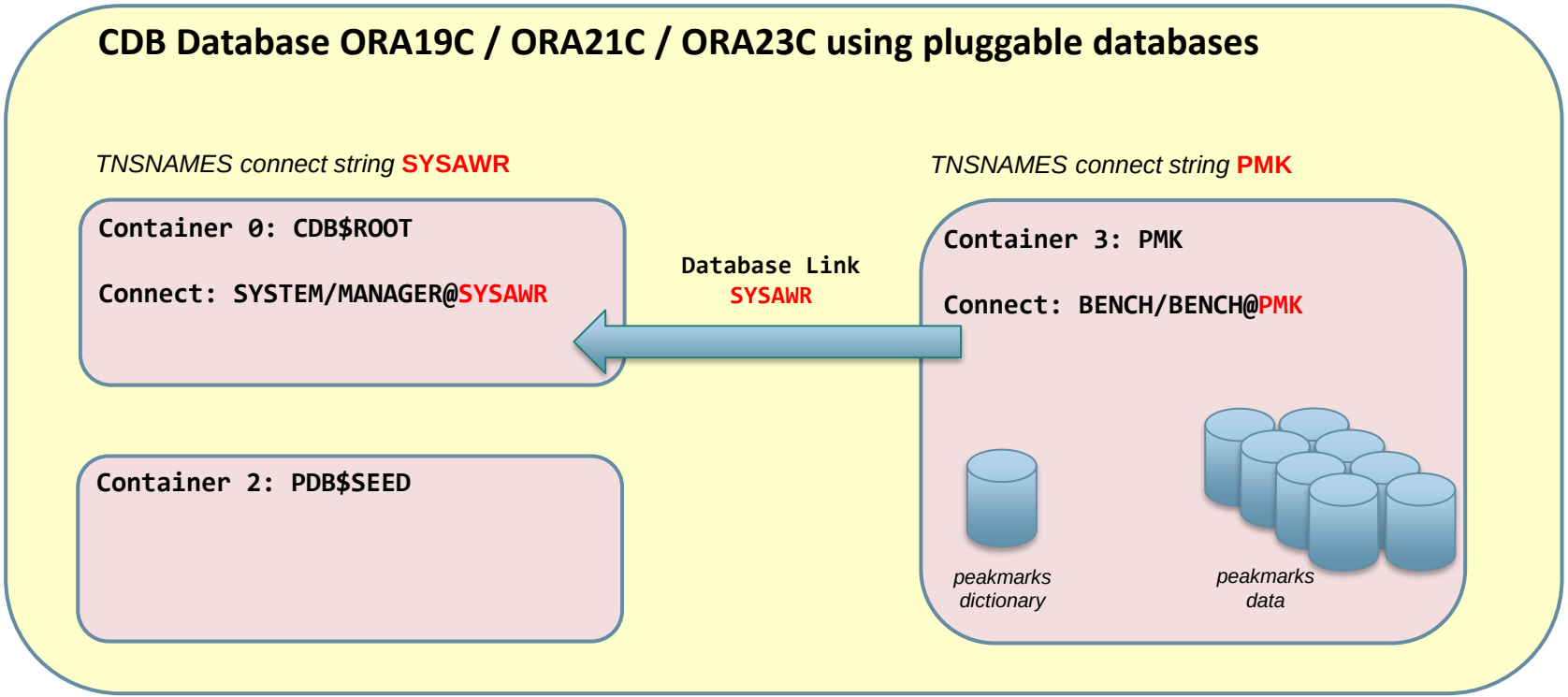
Database Organization



TNSNAMES connect strings

Following TNSNAMES connect strings (the actual syntax depends on the platform) on all instances are required for

- Accessing SYSTEM account via SYSAWR (for CDB AWR snapshots)
- Accessing peakmarks account via PMK

```
ORA19C =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = localhost)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = ORA19C)
    )
  )

SYSAWR =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = localhost)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = ORA19C)
    )
  )

PMK =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = localhost)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = PMK)
    )
  )
```

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Installation of peakmarks® PDB

Follow these steps

Connect to SYS as SYSDBA

Use script CreatePDB.sql to create a pluggable peakmarks® database; script includes several activities:

- Set password of SYSTEM account
- Changes common CDB instance configuration parameters
- Collects statistics on the dictionary, fixed objects, and SYS schema
- Disables administrative tasks
- Unset password security features
- Unset resource limits
- Creates and opens the pluggable peakmarks® database
- Disables automatic AWR snapshots and administrative tasks on the PDB level

If the PDB already exists, drop it first, e.g., with the script DropPDB.sql; details from slide 51 ff

Script header CreatePDB.sql

```
-----------------------------------------------------------------------------------------------
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-----------------------------------------------------------------------------------------------
--
--  Script.........:    CreatePDB.sql
--
--  Release........:    15-Feb-2024, MDR
--
--  Description....:    create, open and save state of pluggable peakmarks database
--
--  Parameter......:    &1 - name of peakmarks PDB
--                      &2 - name of PDB admin user
--                      &3 - password of PDB admin user
--                      &4 - initial user tablespace size in [GByte]
--                      &5 - password of SYSTEM user
--
--  Run script as..:    SYS
--
--  Example........:    $ sqlplus / as sysdba
--
--                      SQL> @CreatePDB.sql PMK bench bench 8G manager
--
--  Portability....:    Oracle 19c CDB
--                      Oracle 21c CDB
--
--  Notes..........:    . check log file for errors
--                      . this script takes some minutes
--
--  Requirements...:    . check the following Oracle configuration parameter
--                        DB_CREATE_FILE_DEST = ...      (OMF location for database files)
--                        GLOBAL_NAMES        = FALSE    (no global database naming)
--
```

Execute script CreatePDB.sql

```
$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Tue Jan 23 15:49:04 2024
Version 19.21.0.0.0

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Version 19.21.0.0.0

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SYS@ORA19C1 SQL> @CreatePDB.sql PMK bench bench 8G manager
```

Installation of peakmarks® PDB

Script processing CreatePDB.sql – this will take some minutes

```
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running script CreatePDB.sql - create and open pluggable peakmarks database

. CDB administrative tasks disabled
. CDB AWR threshold settings adjusted
. CDB password security features unset
. CDB resource limits for default profile unset
. CDB password set for user SYSTEM

. create pluggable peakmarks database ...
. pluggable peakmarks database created
. pluggable peakmarks database opened

. PDB system privileges granted
. PDB object privileges granted
. PDB administrative tasks disabled
. PDB AWR snapshots disabled

. perform some checks

. -> check pdb creation in logfile CreatePDB.log
. -> check pluggable database(s) ..................... with SQL> @pdb

. next steps are

. -> connect to peakmarks PDB
. -> install peakmarks software

SYS@ORA19C1 SQL>
```

Perform some checks

- Check pluggable database

```
SYS@ORA19C1 SQL> @pdb

Tue 23-Jan-2024 15:49:55

Pluggable Database(s)
---------------------

Oracle......:  19.21.0
Database....:  CDB$ROOT
Instance....:  ORA19C1
RAC nodes...:  2
Server......:  PMEXA01.LAB.LOCAL

                                                                                                  Max PDB     Max Diag   Max Audit
          Pluggable                 Open                                              Local        Size        Size        Size
Con# Ins# Database             DB# Mode       Creation          Res? Proxy  UNDO     [GByte]     [GByte]     [GByte]
---- ---- ---------- ------------ ---------- ----------------- ---- ----- ----- ----------- ----------- -----------
   5    1 PMK           2264675154 READ WRITE 23-JAN-2024 15:49 NO   NO        1        0.00        0.00        0.00
   5    2 PMK           2264675154 READ WRITE 23-JAN-2024 15:49 NO   NO        1        0.00        0.00        0.00

SYS@ORA19C1 SQL>
```

Perform some checks

- Test TNSNAMES.ORA connect strings system/manager@SYSAWR and bench/bench@PMK

```
SYS@ORA19C1 SQL> connect system/manager@SYSAWR
Connected.
----------------------------------------
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SYSTEM@SYSAWR SQL> connect bench/bench@PMK
Connected.
----------------------------------------
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----------------------------------------

BENCH@PMK SQL>
```

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Installation of peakmarks® Software

Follow these steps

Connect to peakmarks® PDB

Use script InstallPMK.sql to install peakmarks® Software; script includes following activities:

- Creating database link SYSAWR to SYSTEM account
- Compiling programs
- Creating peakmarks® dictionary
- Initializing internal tables

Script header InstallPMK.sql

```
-----------------------------------------------------------------------------------------------
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-----------------------------------------------------------------------------------------------
--
--  Script.........:    InstallPMK.sql
--
--  Release........:    15-Feb-2024, MDR
--
--  Description....:    install and initialize peakmarks software
--
--  Parameter......:    &1 - path of peakmarks base directory
--                      &2 - password of SYSTEM user
--
--  Run script as..:    peakmarks user
--
--  Example........:    $ sqlplus bench/bench@PMK
---
--                      SQL> @InstallPMK /u01/app/pmk/ manager
--                      SQL> @InstallPMK /acfs01/pmk/ manager
--                      SQL> @InstallPMK c:/pmk/ manager
--
--  Portability....:    Oracle 19c
--                      Oracle 21c
--
--  Notes..........:    check log file InstallPMK.log for errors
--
--  Requirements...:    -
```

Execute script InstallPMK.sql

```
$ sqlplus bench/bench@PMK

SQL*Plus: Release 19.0.0.0.0 - Production on Tue Jan 23 15:51:54 2024
Version 19.21.0.0.0

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Last Successful login time: Tue Jan 23 2024 15:50:50 +01:00

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.21.0.0.0

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BENCH@PMK SQL> @InstallPMK /acfs01/pmk/ manager
```

Script processing InstallPMK.sql

```
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running script InstallPMK.sql - install peakmarks software

. database link to SYSTEM created
. install native, compiled plsql
. install layer 2 - catalog and core functionality
. install layer 3 - platform and performance management
. install layer 4 - peakmarks configuration
. install layer 5 - peakmarks data model
. install layer 6 - workload processing
. install layer 7 - workload execution control
. install layer 8 - command line interface

. perform some checks

. check software installation in logfile InstallPMK.log
. check peakmarks directories ........................... with SQL> @dir
. check status of software installation (packages) ...... with SQL> @pls
. check status of software initialization (journal) ..... with SQL> @jrn

. next steps are

. -> configure peakmarks configuration parameter
. -> check oracle database and instance configuration
. -> load peakmarks database
. -> run workloads, start with smart peakmarks configurations

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BENCH@PMK SQL>
```

Monitoring peakmarks® installation – database directories

```
BENCH@PMK SQL> @dir

Tue 23-Jan-2024 15:55:04

peakmarks Database Directories
------------------------------

Oracle......:  19.21.0
Database....:  PMK
Instance....:  ORA19C1
RAC nodes...:  2
Server......:  PMEXA01.LAB.LOCAL

Con# Owner           Directory                 Path
---- --------------- ------------------------- ------------------------------------------------------------
   5 SYS             PEAKMARKS_BASE            /acfs01/pmk/
   5 SYS             PMK_AWR                   /acfs01/pmk/awr/
   5 SYS             PMK_BIN                   /acfs01/pmk/bin/
   5 SYS             PMK_CFG                   /acfs01/pmk/cfg/
   5 SYS             PMK_TMP                   /acfs01/pmk/tmp/

5 rows selected.

BENCH@PMK SQL>
```

Monitoring peakmarks® installation – PL/SQL packages

```
BENCH@PMK SQL> @pls

Tue 23-Jan-2024 15:55:30

PL/SQL Package(s) in current schema
-----------------------------------

Package.....:

Oracle......:  19.21.0
Database....:  PMK
Instance....:  ORA19C1
RAC nodes...:  2
Server......:  PMEXA01.LAB.LOCAL

                                                    Parsed     Code
                                                      Size     Size
Name                           Type         Status   [KByte]  [KByte] Creation Time  Last DDL Time  Code Type
------------------------------ ------------ ------- -------- -------- -------------- -------------- --------------
ALC                            PACKAGE      VALID        1.4      0.4 11-01-24 10:12 11-01-24 10:12 NATIVE
ALC                            PACKAGE BODY VALID        4.9      5.0 11-01-24 10:12 11-01-24 10:12 NATIVE
C                              PACKAGE      VALID       36.0     11.3 11-01-24 10:12 11-01-24 10:12 NATIVE
C                              PACKAGE BODY VALID        2.5     19.3 11-01-24 10:12 11-01-24 10:12 NATIVE
...
WLM                            PACKAGE      VALID       13.4      3.6 11-01-24 10:12 11-01-24 10:12 NATIVE
WLM                            PACKAGE BODY VALID        3.2     19.9 11-01-24 10:12 11-01-24 10:12 NATIVE
                                                    -------- --------
Total                                                 216.2    421.3

50 rows selected.

BENCH@PMK SQL>
```

Monitoring peakmarks® installation – installation process

```
BENCH@PMK SQL> @jrn

Tue 23-Jan-2024 15:56:10

peakmarks Journal
-----------------

Program.....:
Test........:
Text........:

Database....:  PMK                Oracle......:  19.21.0
Instance....:  ORA19C1            Build.......:  240215
RAC nodes...:  2                  Platform....:  pmexa01.lab.local

Node Program          Test       Msg# Timestamp           Message
---- --------------- ---- ---------- ------------------ ----------------------------------------------------------------------------------
   2 InstallPLS          0          1 23-JAN 15:52:50.198 DFM-23123: DFM installed
   2 InstallPLS          0          2 23-JAN 15:52:52.572 PCM-23123: PCM installed
   2 InstallPLS          0          3 23-JAN 15:52:53.227 CFG-23123: CFG installed
   2 InstallPLS          0          4 23-JAN 15:52:54.248 SEQ-23123: SEQ installed
   2 InstallPLS          0          5 23-JAN 15:52:56.612 WLM-23123: WLM installed
   2 InstallPLS          0          6 23-JAN 15:52:58.132 BCM-23123: BCM installed
   2 InstallPLS          0          7 23-JAN 15:52:59.665 HLP-23123: HLP installed

7 rows selected.

BENCH@PMK SQL>
```

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Oracle Services for In-Memory Column Store Instance Affinity

For RAC installations only

In-Memory Column Store in RAC environments

When using Oracle RAC some additional service configuration is necessary to bind peakmarks® tables to certain column stores

- peakmarks® Software uses hard-coded service names
  PMKCS{n} with n = instance number
- Assign peakmarks® service to each instance with Oracle srvctl Utility

Example

- Database name ORA19C
- Three instances with the following names ORA19C1, ORA19C2, ORA19C3
- Hard-coded peakmarks® service names PMKCS1, PMKCS2, PMKCS3

Instance 1

Instance Name ORA19C1
peakmarks® Service PMKCS1

Instance 2

Instance Name ORA19C2
peakmarks® Service PMKCS2

Instance 3

Instance Name ORA19C3
peakmarks® Service PMKCS3

Example

- Use Oracle srvctl utility to bind peakmarks service to specific instance

- $ srvctl add service -db ORA19C -service PMKCS1 -preferred ORA19C1

Database Name

Service Name

Instance Name

Assign services to specific instance

Instance 1

Instance Name ORA19C1
peakmarks® Service PMKCS1

```
$ srvctl add service
-db ORA19C -service PMKCS1
-preferred ORA19C1
```

Instance 2

Instance Name ORA19C2
peakmarks® Service PMKCS2

```
$ srvctl add service
-db ORA19C –service PMKCS2
-preferred ORA19C2
```

Instance 3

Instance Name ORA19C3
peakmarks® Service PMKCS3

```
$ srvctl add service
-db ORA19C -service PMKCS3
-preferred ORA19C3
```

Monitor services

Instance 1

Instance Name ORA19C1
peakmarks® Service PMKCS1

Instance 2

Instance Name ORA19C2
peakmarks® Service PMKCS2

Instance 3

Instance Name ORA19C3
peakmarks® Service PMKCS3

After restarting the database:

```
$ srvctl status service -db ORA19C
Service pmkcs1 is running on instance(s) ORA19C1
Service pmkcs2 is running on instance(s) ORA19C2
Service pmkcs3 is running on instance(s) ORA19C3
```

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Drop peakmarks® PDB

Drop peakmarks® PDB

Drops the whole peakmarks pluggable peakmarks® database, including

- peakmarks® dictionary with all results
- peakmarks® data for performance assessment
- peakmarks® Software

Script header DropPDB.sql

```
-----------------------------------------------------------------------------------------------
--  Copyright © 2016 - 2024, peakmarks Ltd. All rights reserved.          support@peakmarks.com
-----------------------------------------------------------------------------------------------
--
--  Script.........:    DropPDB.sql
--
--  Release........:    15-Feb-2024, MDR
--
--  Description....:    close and drop pluggable peakmarks database
--
--  Parameter......:    &1 - name of peakmarks PDB
--
--  Run script as..:    SYS in CDB$ROOT
--
--  Example........:    $ sqlplus / as sysdba
--
--                      SQL> @DropPDB PMK
--
--  Portability....:    Oracle 19c CDB
--                      Oracle 21c CDB
--
--  Notes..........:    . check log file for errors
--
--  Message range..:    DBM-12xxx
--
```

Drop peakmarks® PDB

Script execution DropPDB.sql

```
$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Tue Jan 23 16:59:29 2024
Version 19.21.0.0.0

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Version 19.21.0.0.0

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SYS@ORA19C1 SQL> @DropPDB PMK
```

Script processing DropPDB.sql

```
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running script DropPDB.sql - drop pluggable peakmarks database

Press <RETURN> to drop pluggable peakmarks database ... or cancel script NOW with CTRL-C!

. close pluggable peakmarks database ...
. pluggable peakmarks database closed
. drop pluggable peakmarks database ...
. pluggable peakmarks database dropped

. check operation in logfile DropPDB.log

. check status of pluggable databases..... with SQL> @pdb

SYS@ORA19C1 SQL>
```

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Summary of Scripts

Summary of scripts

Scripts for peakmarks installation

SQL> @CreatePDB
SQL> @DropPDB
SQL> @InstallPMK

Scripts to monitor installation

SQL> @dir.sql
SQL> @cdb.sql
SQL> @pdb.sql
SQL> @jrn.sql
SQL> @pls.sql
SQL> @where.sql
SQL> @db_links

peakmarks Mission

Identify Key Performance Metrics for Oracle Database Platforms.

On-Premises and in the Cloud.

For Quality Assurance, Evaluations, and Capacity Planning.