



Cloud at Customer Academy 3.0

Exadata Cloud Features - EHCC, Smart Scan, In-Memory, Multitenant

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Oracle Exadata Cloud at Customer Academy

Para capacitar a nuestros Partners en Servicios OCI, creamos la nueva versión de la Academia Cloud at Customer.

Esta academia contará con **10 sesiones de capacitación**, a partir del **14 de julio**, que permitirán a los participantes conocer las principales características y funcionalidades de Oracle Exadata y PCA ¡También será una excelente oportunidad para aclarar todas sus dudas para obtener su certificación!

Únase a esta capacitación y descubra por qué Oracle Cloud at Customer es la forma más sencilla de mover cargas de trabajo críticas de Oracle Database de una organización a la nube.

Consulte la agenda a continuación e inscríbase. ¡Contamos con su participación!

ExaC@C Overview 14 de julio 1:00 p.m. - 3:00 p.m. (Mexico Time)	Regístrate
PCA - Private Cloud Appliance 26 de julio 1:00 p.m. - 3:00 p.m. (Mexico Time)	Regístrate
C@C Patching – Demo Session 28 de julio 1:00 p.m. - 3:00 p.m. (Mexico Time)	Regístrate
C@C Backup & Restore – Demo Session 3 de agosto 1:00 p.m. - 2:30 p.m. (Mexico Time)	Regístrate
Migration and move to Cloud – Demo Session 10 de agosto 1:00 p.m. - 2:30 p.m. (Mexico Time)	Regístrate
Troubleshooting tools – Demo Session 24 de agosto 1:00 p.m. - 2:30 p.m. (Mexico Time)	Regístrate
Monitoring – Demo Session 31 de agosto 1:00 p.m. - 2:00 p.m. (Mexico Time)	Regístrate
Smart Scan, HCC compression & In-Memory – Demo Session 14 de septiembre 1:00 p.m. - 3:00 p.m. (Mexico Time)	Regístrate
A&Q for Certification 21 de septiembre 1:00 p.m. - 3:00 p.m. (Mexico Time)	Regístrate
C@C New Features - Demo Session 28 de septiembre 1:00 p.m. - 3:00 p.m. (Mexico Time)	Regístrate



Agenda

Exadata Features

Oracle Multitenant Database

Exadata Smart Scan

Exadata Hybrid Columnar Compression

Oracle In-Memory Database

Demo – Partitioning (DBMS_REDEFINITION)

Demo – Exadata EHCC Implementation

Demo – Configuring In-Memory

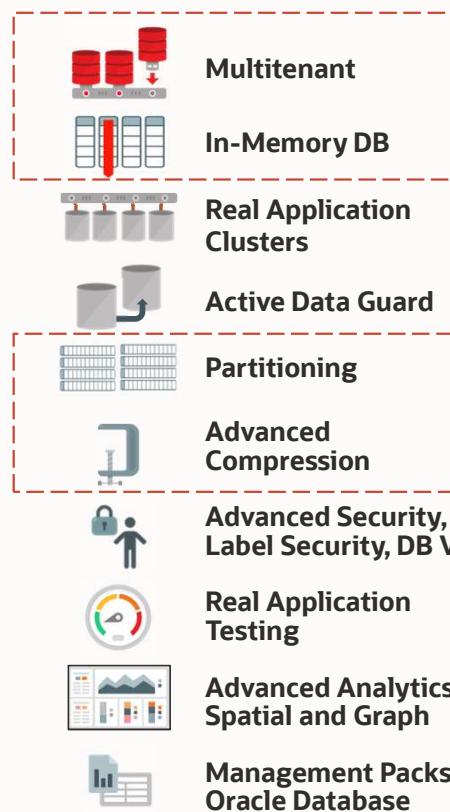
Demo – Creating a PDB using *dbaascli*

Exadata Features

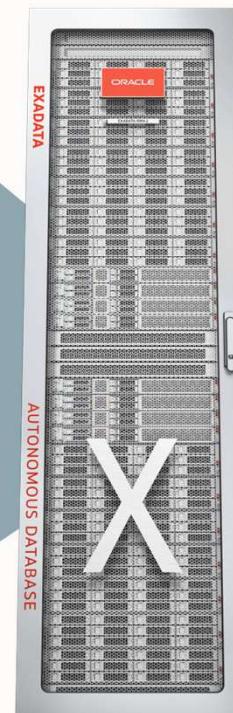
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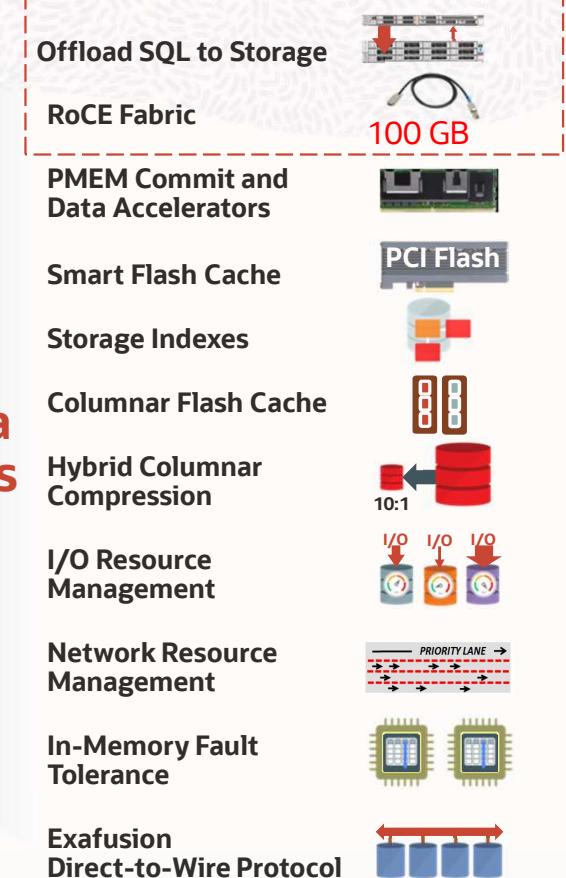
Oracle Exadata Database and Platform Innovations



All Oracle
Database
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All Exadata
Innovations



Oracle Multitenant Database

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Oracle 19C Multitenant Administrators Guide

Database / Oracle / Oracle Database / Release 19

Administrator's Guide

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Preface

Changes in This Release for Oracle Multitenant Administrator's Guide

- Changes in Oracle Database Release 19c, Version 19.1
- Changes in Oracle Database Release 18c, Version 18.1

Part I Multitenant Architecture

Part II Creating and Configuring a Multitenant Environment

- 3 Overview of Configuring and Managing a Multitenant Environment
- 4 Creating and Configuring a CDB

Part III Creating and Removing PDBs and Application Containers

Changes in This Release for Oracle Multitenant Administrator's Guide

There are changes in this document for recent releases of Oracle Database.

- Changes in Oracle Database Release 19c, Version 19.1
Oracle Multitenant Administrator's Guide for Oracle Database release 19c, version 19.1 has the following changes.
- Changes in Oracle Database Release 18c, Version 18.1

Changes in Oracle Database Release 19c, Version 19.1

Oracle Multitenant Administrator's Guide for Oracle Database release 19c, version 19.1 has the following changes.

- New Features
The following major features are new in this release.

Parent topic: Changes in This Release for Oracle Multitenant Administrator's Guide

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Changes in Oracle Database Release 19c, Version 19.1

Changes in Oracle Database Release 18c, Version 18.1

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Dbaascli create PDB options

```
# dbaascli pdb create --pdbName <value> --dbName <value>
                           [--maxCPU <value>]
                           [--maxSize <value>]
                           [--pdbAdminUserName <value>]
                           [--lockPDBAdminAccount <value>]
                           [--resume [--sessionID <value>] ]
                           [--executePrereqs <value>]
                           [--waitForCompletion <value>]
```

Dbaascli PDB delete options

```
# dbaascli pdb delete --dbName value
          { --pdbName value | --pdbUID value }
          [--executePrereqs value]
          [--waitForCompletion value]
          [--resume [--sessionID value] ]
          [--allStandbyPrepared]
          [--cleanupRelocatedPDB]
```

Dbaascli PDB commands used on Demo

```
# dbaascli admin showLatestStackVersion  
  
# dbaascli database getDetails --dbname dbpetro  
  
# dbaascli pdb create --dbName dbpetro --pdbName PDB1 --maxsize 5G --maxcpu 2 --executePrereqs  
  
# dbaascli pdb getDetails --dbname dbpetro --pdbName PDB1  
  
# dbaascli pdb delete --dbName dbpetro --pdbName PDB1 --executePrereqs  
  
# dbaascli pdb delete --dbName dbpetro --pdbName PDB1
```

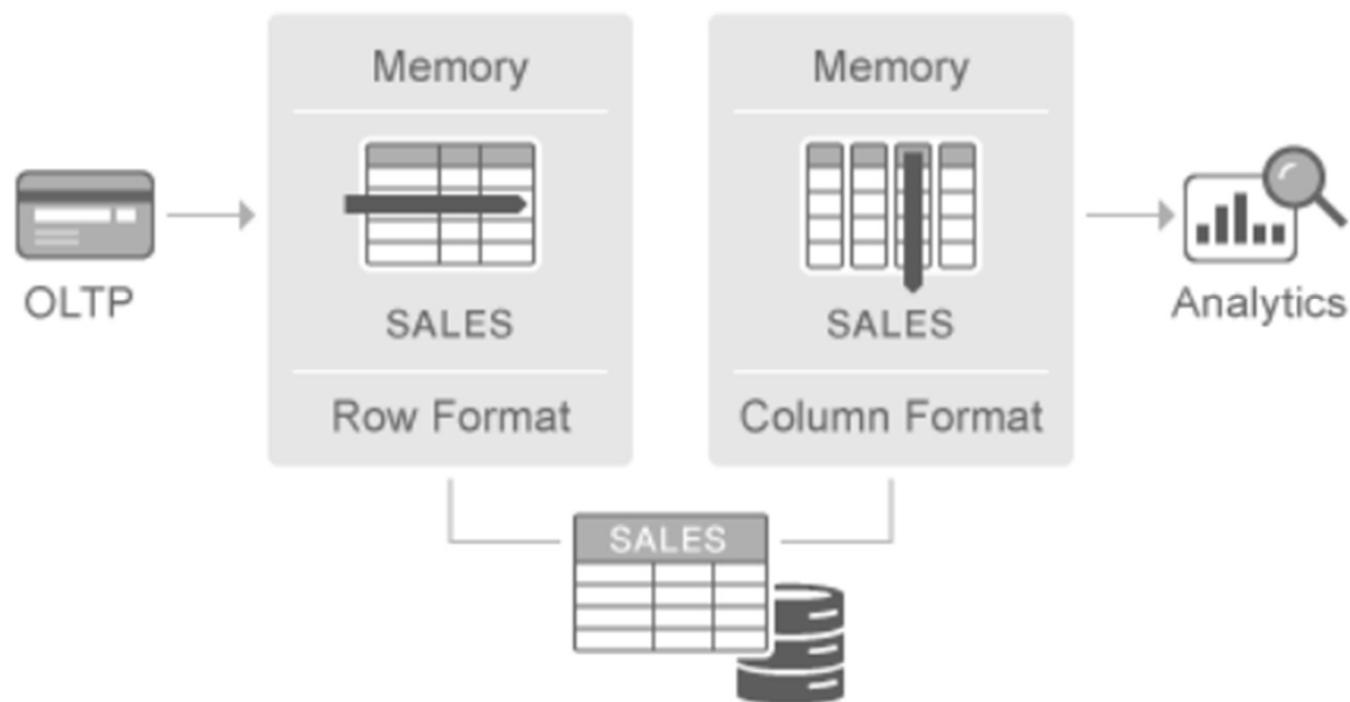


Oracle In-Memory Database

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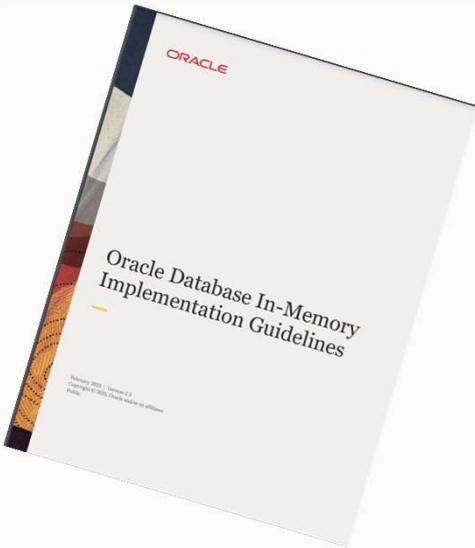
Database Memory Row Format Vs Column Format



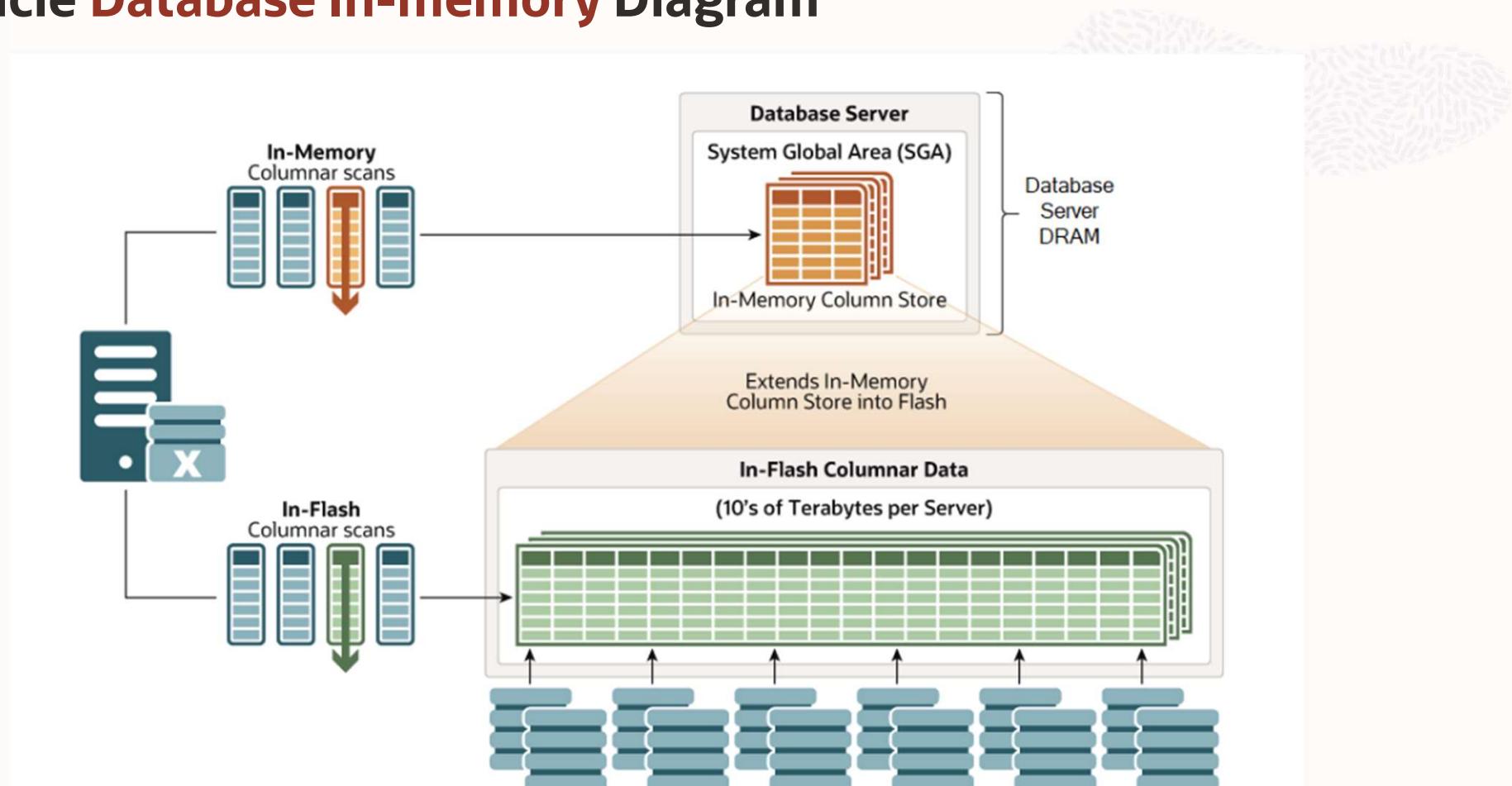
Oracle Database In-memory Implementation Guide



- Is specifically targeted at analytical workloads, which is why the IM column store is populated in a columnar format.
 - Can even be enabled for whole database
 - Can even be enabled at table level
 - Total memory area controlled by inmemory_size parameter
- INMEMORY_FORCE - this parameter can be used to enable the Base Level feature or enable only Cell Memory and not allocate the IM column store (this is for Exadata only).



Oracle Database In-memory Diagram

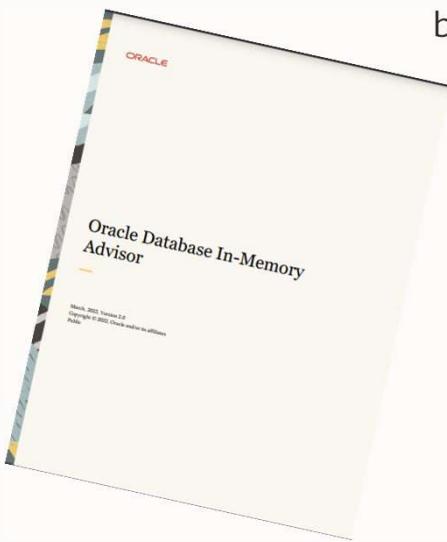


Oracle Database In-memory Advisor

Analyzes your workload and makes specific recommendations regarding how to size the Database In-Memory column store and which objects would render the greatest benefit to your system when placed In-Memory.



- The In-Memory Advisor estimates analytic processing performance improvement factors based upon the following:
 - Elimination of user I/O waits, cluster transfer waits, buffer cache latch waits, etc.
 - Decompression cost heuristics per specific compression types.
 - Certain query processing advantages related to specific compression types.
 - SQL plan selectivity, number of columns in the result set, etc.
- The In-Memory Advisor can be installed on Oracle Database Version 11.2.0.3 and above, including Oracle Database 21c and works in conjunct with AWR repost
- Scripts available for Download available on **MOS note 1965343.1**



- **Oracle Database In-Memory Advisor** (Doc ID 1965343.1)

DETAILS

Oracle Database In-Memory

Oracle Database 12.1.0.2 introduced Oracle Database In-Memory allowing a single database to efficiently support mixed analytic and transactional workloads. An Oracle Database configured with Database In-Memory delivers optimal performance for transactions while simultaneously supporting real-time analytics and reporting.

For complete details about Oracle Database In-Memory, see the [Oracle Database In-Memory Technical Paper](#) and the [Oracle Database In-Memory Page](#) on oracle.com.

The **Oracle Database In-Memory Advisor** analyzes your workload and gives advice on how to configure Oracle Database In-Memory.

The Advisor is licensed as part of the Database Tuning Pack. For more information please see the Enterprise Manager Cloud Control Licensing document.

The attached [imadvisor.zip](#) will install the Advisor in your database. The attached [twp_oracle_database_in_memory_advisor.pdf](#) contains installation instructions on how to install and run the Advisor.

The attached release notes document, [in-memory_advisor_release_notes.pdf](#), explains the changes in the latest version.

For further information about the In-Memory Advisor, see [this page on oracle.com](#).

Note:

If In-Memory Advisor installation fails without an obvious session or logged error, set the following before running the installation script:

```
alter session set nls_language=american;
alter session set nls_territory=america;
```



In-Memory Demo Commands Configuring Database

Connected to:

Oracle Database 19c EE High Perf Release 19.0.0.0.0 - Production
Version 19.16.0.0.0

```
SQL> alter session set container=PDB1;
```

```
SQL> SHOW PARAMETER INMEMORY
```

```
SQL> SELECT INST_ID, NAME, VALUE/1024/1024 as "MB" from GV$SGA;
```

```
SQL> CREATE PFILE='/tmp/spfile_bkp_230909.ora' FROM SPFILE;
```

```
SQL> alter system set inmemory_size=2g scope=spfile sid='*';
```

```
$ srvctl stop database -d database_name
```

```
$ srvctl start database -d database_name
```

```
$ srvctl status database -d database_name
```



In-Memory Demo Commands Configuring Objects

Connected to:

Oracle Database 19c EE High Perf Release 19.0.0.0.0 - Production

Version 19.16.0.0.0

```
SQL> ALTER TABLE ERP.ORDERS INMEMORY;
SQL> ALTER TABLE ERP.ORDERS INMEMORY PRIORITY NONE;
SQL> ALTER TABLE ERP.ORDERS INMEMORY PRIORITY HIGH;
SQL> ALTER TABLE ERP.ORDERS INMEMORY PRIORITY LOW;
SQL> ALTER TABLE ERP.ORDERS INMEMORY PRIORITY MEDIUM;
SQL> ALTER TABLE ERP.ORDERS INMEMORY PRIORITY CRITICAL;
SQL> ALTER TABLE ERP.ORDERS NO INMEMORY;
```

```
SQL> SET PAGES 300
SQL> SET LINES 300
SQL> COL OWNER FOR A5
SQL> COL PARTITIONED FOR A10
SQL> COL NUM_ROWS FOR 999999999
SQL> COL INMEMORY FOR A10
SQL> COL INMEMORY_PRIORITY FOR A20
SQL> COL TABLE_NAME FOR A20
SQL> COL INMEMORY_COMPRESSION FOR A20;
```

```
SQL> SELECT OWNER, TABLE_NAME, PARTITIONED, NUM_ROWS, INMEMORY, INMEMORY_PRIORITY FROM DBA_TABLES WHERE TABLE_NAME IN ('ORDERS');
```



In-Memory Demo Commands Configuring Objects

Connected to:
Oracle Database 19c EE High Perf Release 19.0.0.0.0 - Production
Version 19.16.0.0.0



```
SQL> SET LINES 300
SQL> SET PAGES 300
SQL> COL INST_ID for 999999
SQL> COL OWNER for A5
SQL> COL NAME FOR A10
SQL> COL PARTITION_NAME FOR A20
SQL> COL POPULATE_STATUS FOR A20
SQL> COL INMEMORY_SERVICE FOR A20
SQL> COL INMEMORY_PRIORITY FOR A25

SQL> SELECT INST_ID, OWNER, SEGMENT_NAME NAME,
       PARTITION_NAME, INMEMORY_SIZE/1024/1024 as "MB",
       POPULATE_STATUS, INMEMORY_SERVICE, INMEMORY_PRIORITY
  FROM GV$IM_SEGMENTS;

SQL> EXPLAIN PLAN FOR
SQL> SELECT COUNT(*) FROM ERP.ORDERS GROUP BY PRICE;
SQL> SELECT * FROM TABLE(DBMS_XPLAN.DISPLAY);
```

Exadata Smart Scan

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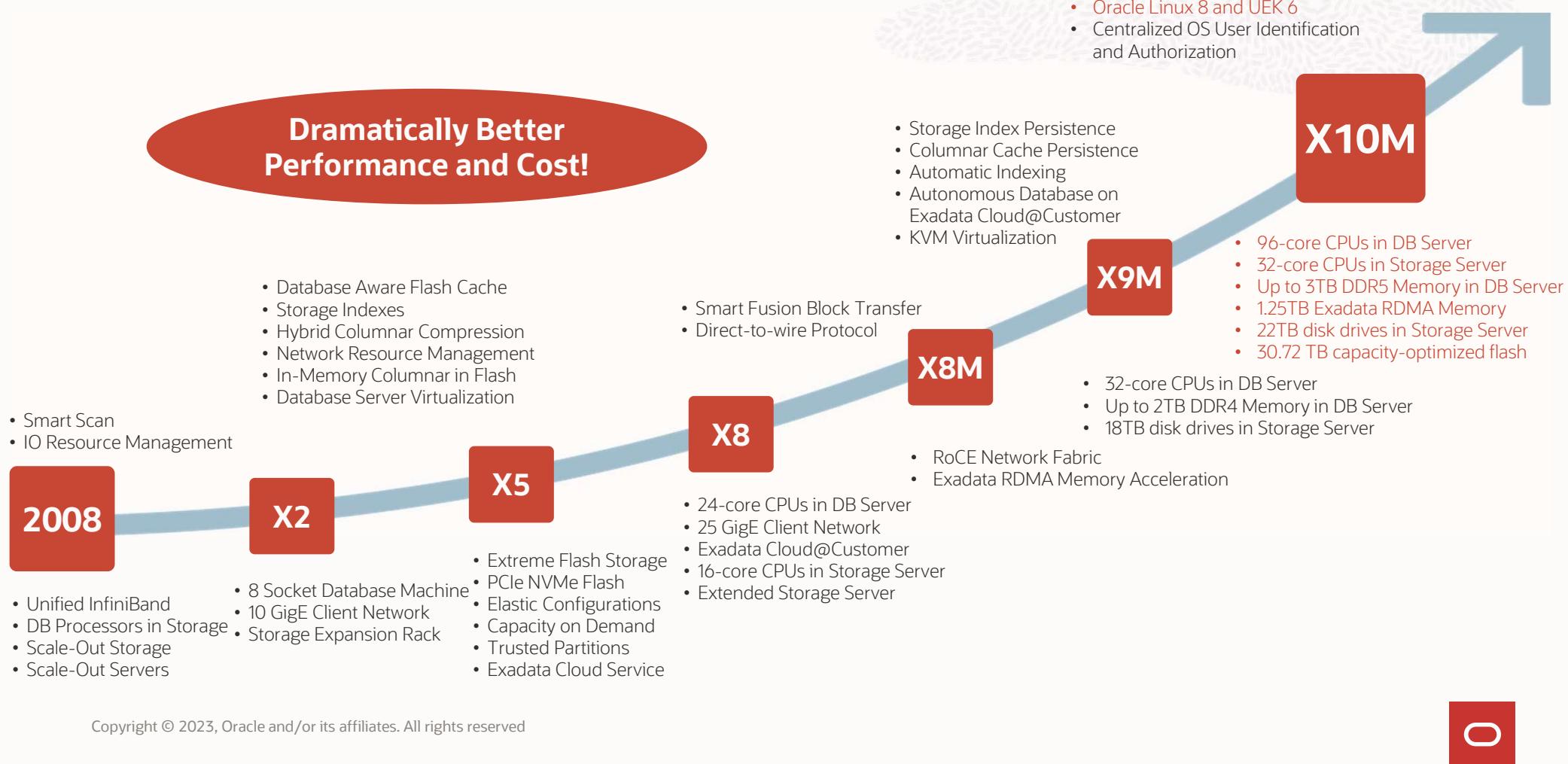


What Exadata Smart Scan Is?

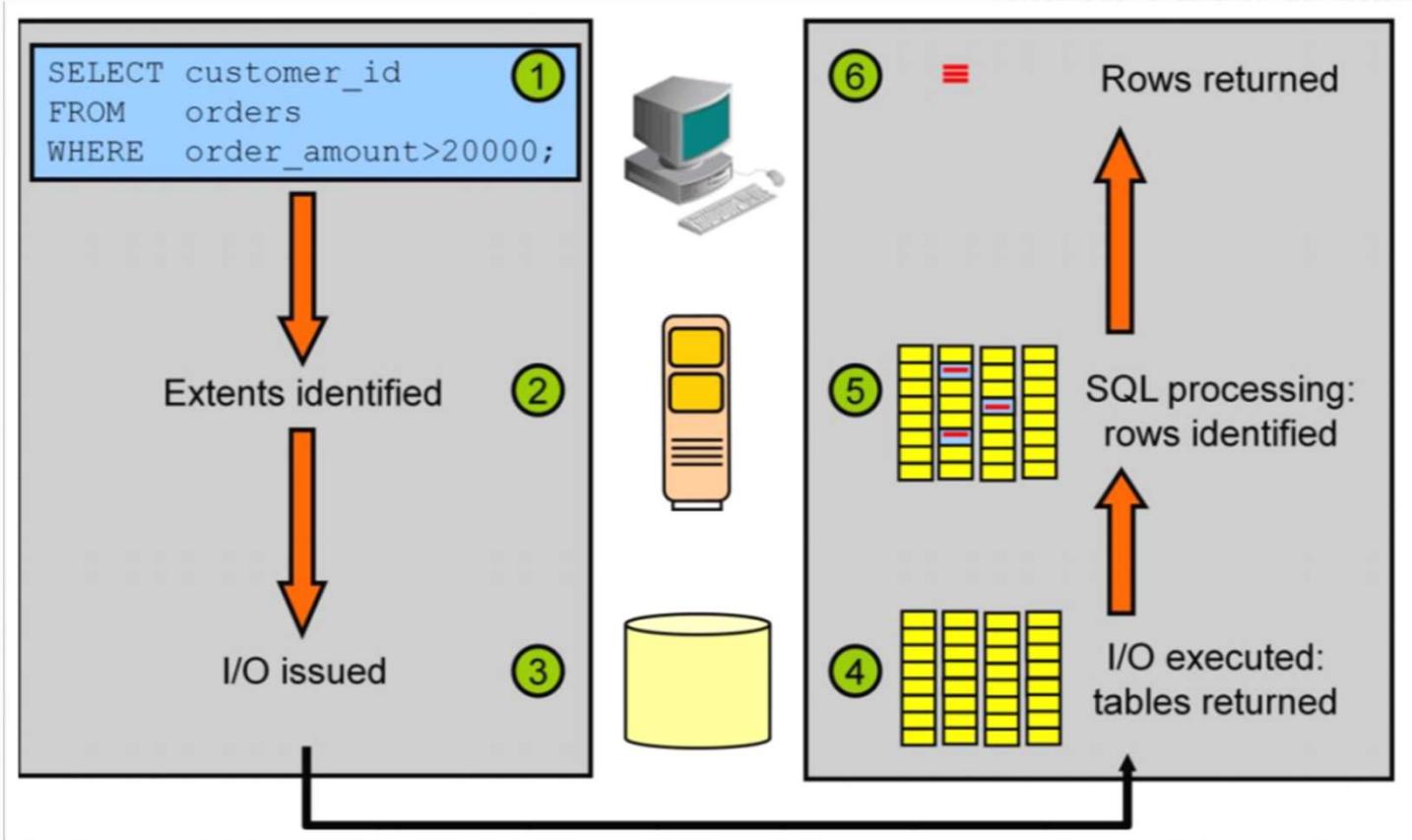


“Smart Scan is one of the great feature in Oracle Exadata. With this technology storage send only required rows to database node from **storage instead of entire Oracle Block**. Multiple rows are stored in one Oracle Block but non-exadata system return entire block even only one rows is required. On the other hand, Exadata Storage returns only **interested rows but not entire block**. “

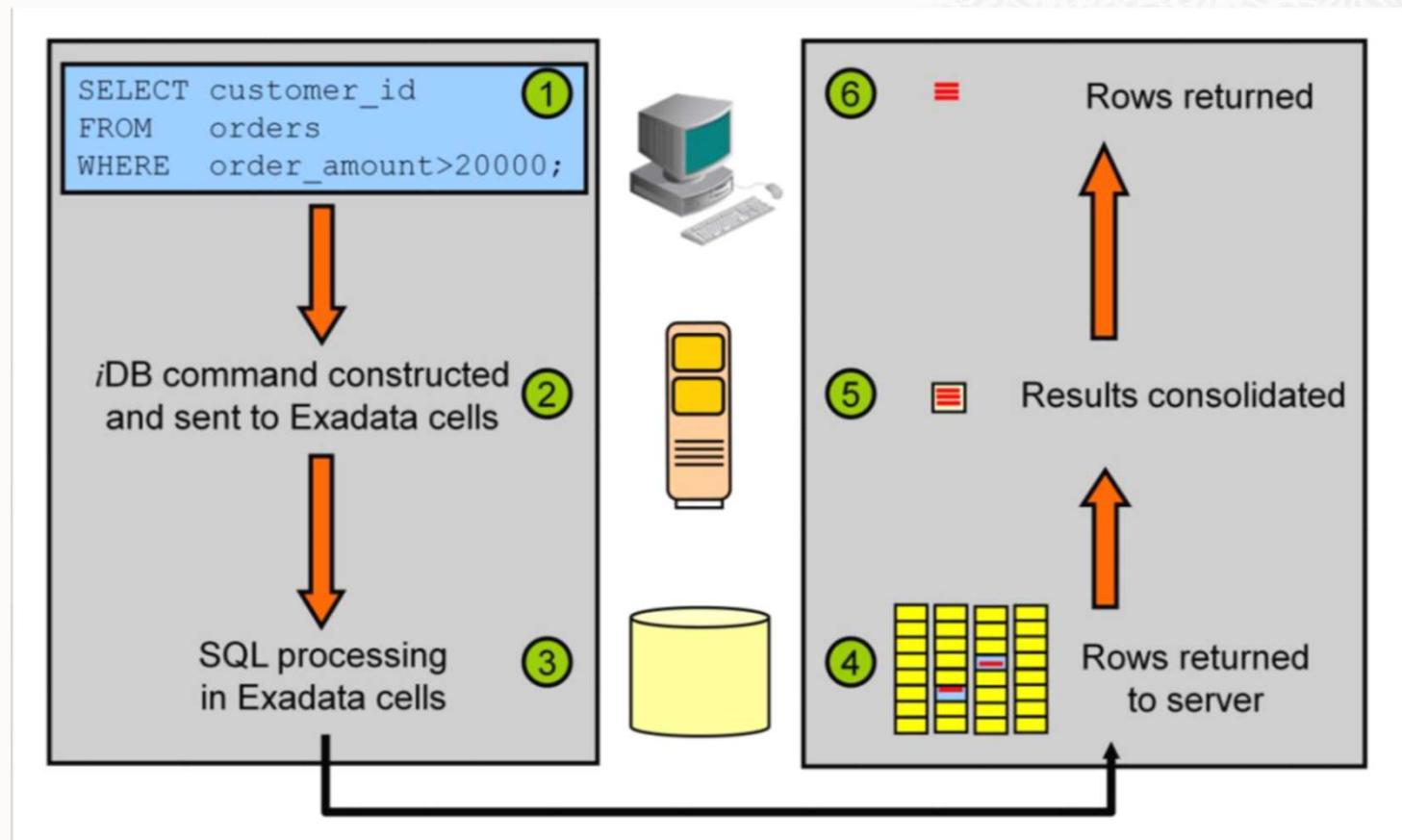
Exadata Advantages Increase Every Year



Oracle Database | No Exadata System



Exadata Cloud a Smart Scan | Off Load Querying



When Exadata Smart Scan Happens



- Full Table Scans
- Direct-path reads
- Not used by default for serial scans of small tables Can be forced via `_serial_direct_read=TRUE` at either session or system level
- Full Index Scans
- Direct-path reads are automatically used for parallel queries

Exadata Smart Scan Why it's not working?

- Scan performed on a compressed table
- A Scan is performed on an index partitioned table
- Full scan is performed on a compressed index
- A full scan is performed on a reverse key index
- The table has row-level dependency tracking enabled.
- The optimizer wants the scan to return rows in ROWID order
- A BLOB or LONG column is being selected or queried
- A self-relation flashback query is being executed
- A query that references LOB columns is referenced

Query Execution plan | Traditional Database Vs Exadata System

```
SQL> select * from table(dbms_xplan.display);
PLAN_TABLE_OUTPUT
-----
Plan hash value: 970577077

| Id  | Operation          | Name      | Rows  | Bytes | Cost (%CPU)| Time     |
| 0   | SELECT STATEMENT   |           | 902   | 23452 |    10  (0) | 00:00:01 |
| 1   | TABLE ACCESS BY INDEX ROWID BATCHED | CUSTOMERS | 902   | 23452 |    10  (0) | 00:00:01 |
|* 2  | INDEX RANGE SCAN   | CUSTOMERS_ID_PK | 902   |       |       6  (0) | 00:00:01 |

Predicate Information (identified by operation id):
-----
```



```
PLAN_TABLE_OUTPUT
-----
Plan hash value: 2008213504

| Id  | Operation          | Name      | Rows  | Bytes | Cost (%CPU)| Time     |
| 0   | SELECT STATEMENT   |           | 902   | 23452 | 306K (1) | 00:00:12 |
|* 1  | TABLE ACCESS STORAGE FULL | CUSTOMERS | 902   | 23452 | 306K (1) | 00:00:12 |

Predicate Information (identified by operation id):
-----
1 - storage("ID"=<=1000 AND "ID">=100)
      filter("ID"=<=1000 AND "ID">=100)
```



Exadata Hybrid Columnar Compression (EHCC)

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Exadata Hybrid Columnar Compression is?

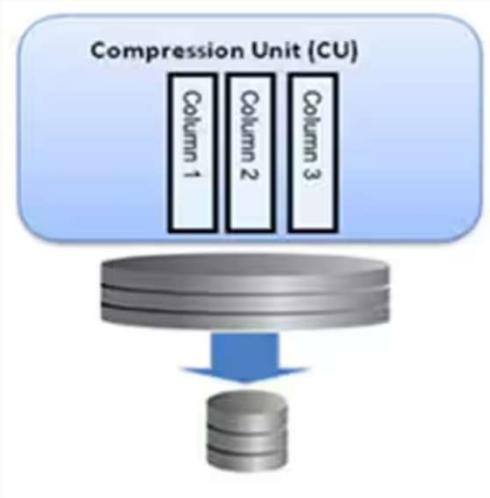
“**Exadata Hybrid Columnar Compression** is a feature included in Exadata Storage Server. This feature provides a high level of data compression about objects in an Oracle database and offers the ability to **customize the compression level**, depending on whether the environment is an **OLTP environment** (frequent reads and writes on non-sequential data) or an **OLTP environment**. Data warehousing (frequent queries for large amounts of data).”



Exadata Hybrid Columnar Compression

Exadata Hybrid Columnar Compression can be used at different levels:

- Partition Level
- Table Level
- Tablespace Level



There are two types of Exadata Hybrid Columnar Compression:

Warehouse Compression

- Query High
- Query Low

Online archival compression

- Archive High
- Archive Low

- **Exadata Hybrid Columnar Compression (EHCC) FAQ (Doc ID 1910687.1)**

APPLIES TO:

Exadata Database Machine V2 - Version All Versions to All Versions [Release All Releases]

Information in this document applies to any platform.

PURPOSE

This document addresses the frequently asked questions related to Exadata Hybrid Columnar Compression.

QUESTIONS AND ANSWERS

What is Exadata Hybrid Columnar Compression (EHCC)

Exadata Hybrid Columnar Compression (EHCC), also known as Hybrid Columnar Compression (HCC), is data that is organized by a hybrid of columns/rows and compression rather than organized by basic row format.

This approach achieves the compression benefits of columnar storage.

For Further Information Please Review <https://www.oracle.com/technetwork/database/exadata/ehcc-twp-131254.pdf>

What are the types of compression available with EHCC ?

EHCC is available with following types:

1. Warehouse Compression

Within warehouse compression there are two subtypes:



- **How To Estimate ADVANCED COMPRESSION RATIO For Tables (Doc ID 2426970.1)**

APPLIES TO:

Oracle Database Cloud Schema Service - Version N/A and later
Oracle Database Exadata Express Cloud Service - Version N/A and later
Oracle Database Exadata Cloud Machine - Version N/A and later
Oracle Cloud Infrastructure - Database Service - Version N/A and later
Oracle Database Backup Service - Version N/A and later
Information in this document applies to any platform.

PURPOSE

How to use DBMS_COMPRESSION.GET_COMPRESSION_RATIO for Tables in 12c

SCOPE

DETAILS

Below script can be used to estimate the Advanced Compression Ratio for Tables in 12c & higher

```
DECLARE
blkcnt_cmp pls_integer;
blkcnt_ncmp pls_integer;
row_cmp pls_integer;
row_ncmp pls_integer;
cmp_ratio pls_integer;
comptype_str varchar2(1000);
```

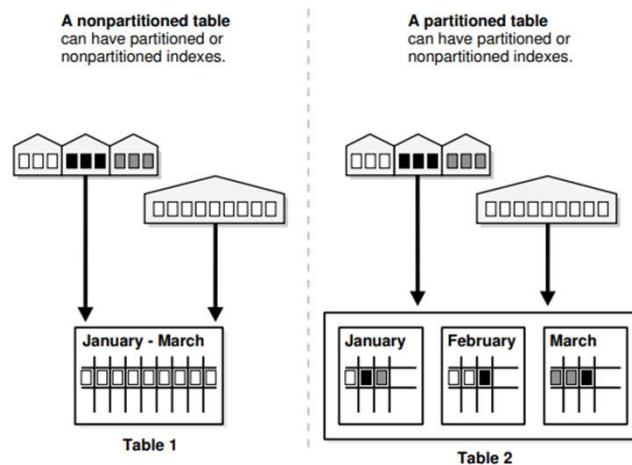
Oracle Database Partitioning

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Oracle Database Partitioning concepts

- A partitioned object has multiple pieces that can be managed either collectively or individually.



- This gives an administrator considerable flexibility in managing partitioned objects.
 - From the perspective of the application, a partitioned table is identical to a no partitioned table
 - No modifications are necessary when accessing a partitioned table using SQL queries and DML statements
-
- Partitioning feature allows you to partition tables and indexes



Oracle 19c Partitioning Guide

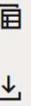


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VLDB and Partitioning Guide

List of Tables



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▶ Preface

▼ Changes in This Release for Oracle Database VLDB and Partitioning Guide

Changes for VLDB and Partitioning in Oracle Database 19c

Changes for VLDB and Partitioning in Oracle Database Release 18c

▶ 1 Introduction to Very Large Databases

▼ 2 Partitioning Concepts

▼ 2.1 Partitioning Overview

2 Partitioning Concepts

Partitioning enhances the performance, manageability, and availability of a wide variety of applications and helps reduce the total cost of ownership for storing large amounts of data.

Partitioning allows tables, indexes, and index-organized tables to be subdivided into smaller pieces, enabling these database objects to be managed and accessed at a finer level of granularity. Oracle provides a rich variety of partitioning strategies and extensions to address every business requirement. Because it is entirely



2 Partitioning Concepts

2.1 Partitioning Overview

2.2 Benefits of Partitioning

2.3 Partitioning Strategies

2.4 Partitioning Extensions

2.5 Indexing on Partitioned Tables



Oracle Database DBMS_REDEFINITION

Connected to:

Oracle Database 19c EE High Perf Release 19.0.0.0.0 - Production
Version 19.16.0.0.0

```
SQL> EXEC DBMS_REDEFINITION.CAN_REDEF_TABLE (UNAME=>'ERP', TNAME=>'ORDERS');
```

```
SQL> BEGIN
DBMS_REDEFINITION.START_REDEF_TABLE(uname => 'ERP', ORIG_TABLE =>'ORDERS', INT_TABLE => 'ORDERS_PART');
END;
/
```

```
SQL> BEGIN
DBMS_REDEFINITION.SYNC_INTERIM_TABLE(uname => 'ERP', ORIG_TABLE => 'ORDERS', INT_TABLE => 'ORDERS_PART');
END;
/
```

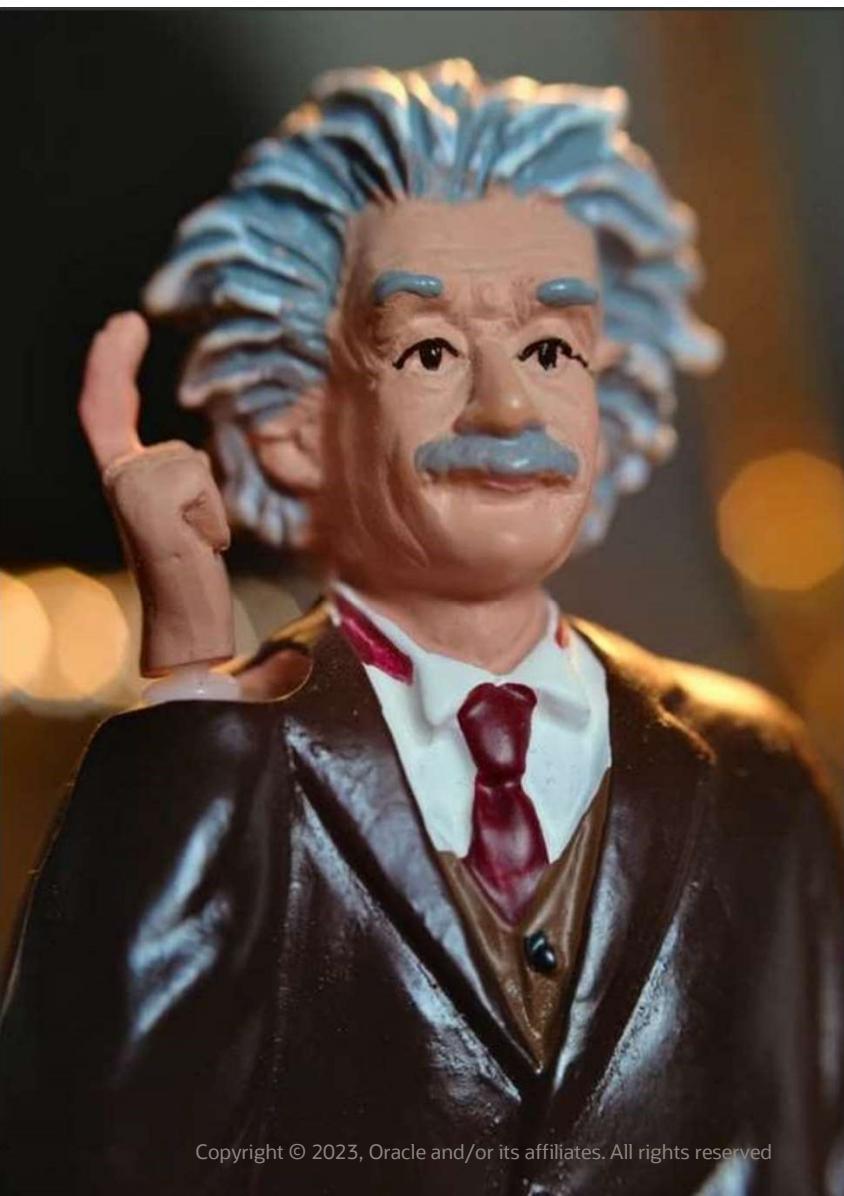
```
BEGIN
DBMS_REDEFINITION.FINISH_REDEF_TABLE(uname => 'ERP', ORIG_TABLE =>'ORDERS', INT_TABLE => 'ORDERS_PART');
END;
/
```



Demo

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Demo 1 – Oracle Database Partitioning

- Creating a partitioned table
- Move no partitioned table to partitioned
- Using by DBMS_REDEFINITIONS (Procedure)



Demo 2 – Oracle Database In-Memory

- Configuring Oracle Database (***In-Memory***)
- Configuring Table using In-Memory
- Rolling back ***In-memory*** Configuration

Demo 3 – Exadata Hybrid Table Compression

- EHCC compression Ratio check
- Compress a no partitioned table
- Compress a table partition

Demo 4 – Oracle Database Multitenant

- Creating a PDB using ***dbaascli***
- Checking a PDB using ***dbaascli***
- Deleting a PDB using ***dbaascli***



Resources

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Oracle Enterprise Manager For Exadata Cloud



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Enterprise Manager Cloud Control

The Oracle Enterprise Manager family of products provides comprehensive solutions for monitoring, managing, testing, diagnosing and optimizing today's complex IT environments.

Oracle Enterprise Manager



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Exadata Cloud at Customer X9M Data Sheet



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Oracle Exadata Cloud@Customer X9M

Run the world's most advanced database services - Oracle Autonomous Database and Oracle Exadata Database Service - on the most powerful, available, and secure database cloud platform, in your data center

EXADATA CLOUD@CUSTOMER

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Exadata Cloud at Customer X10M Data Sheet



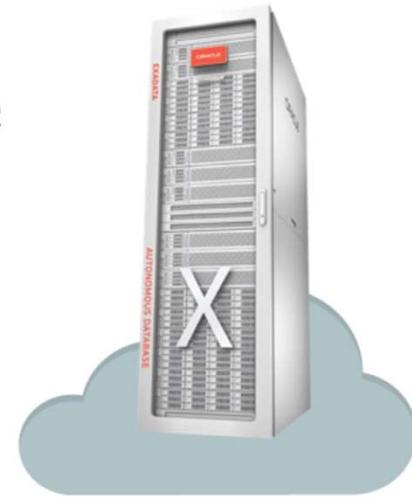
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Oracle Exadata Database Service on Cloud@Customer X10M

Run Oracle's most powerful, available, and flexible cloud database service – Oracle Exadata Database Service – in your data center on Exadata Cloud@Customer

Exadata Database Service



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Exadata Cloud Oracle on Architecture Center

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Exadata Cloud on Oracle **Live Labs**

Oracle Autonomous Database Dedicated for Fleet Administrators



As fleet administrator, set up your dedicated ADB platform in the OCI and on Exadata Cloud@Customer.

⌚ 7 hrs

5463 Views

Oracle Exadata Platform Performance Features



Get hands-on with Oracle Exadata, Exadata Database Service on Cloud@Customer, and Exadata Database (..)

⌚ 1 hr, 20 mins

717 Views

Get Started with Oracle Exadata Database Service on Cloud@Customer



Explore getting started with Oracle Exadata Database Service on Cloud@Customer.

⌚ 1 hr

[Click Here](#)



Stay Connected with the Latin America Partner Community!

Information, collaboration and training all in a single spot.

The [**LAD Partner Community**](#) is a space dedicated to our partners in Latin America, where you can find information and stay up to date on what OPN has to offer.

In the Community, you will find all the information that we communicate to our ecosystem by email.

- Explore [**Categories**](#): organized by grouping publications on a same topic;
- Access the [**Recent Discussions**](#) tab to check the latest posts published;
- Take part in [**Groups**](#) and interact with Oracle Experts and other partners;
- Recordings.

Important: An Oracle SSO account is required to access the Community and other OPN resources. If you don't have this account yet, access [this link](#) or the QR code below.

Access the Community:



Create your SSO account:





Thank You ☺

Questions / Feedback / Training Suggestions

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Ask for help ☺

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