

Exam Number/Code:1Z0-060

Exam Name:Upgrade to Oracle
Database 12c

Version: Demo

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QUESTION NO: 1

Which statement is true about Enterprise Manager (EM) express in Oracle Database 12c?

- A. By default, EM express is available for a database after database creation.
- B. You can use EM express to manage multiple databases running on the same server.
- C. You can perform basic administrative tasks for pluggable databases by using the EM express interface.
- D. You cannot start up or shut down a database Instance by using EM express.
- E. You can create and configure pluggable databases by using EM express.

Answer: A

Explanation:

Note:

*Oracle Enterprise Manager Database Express (EM Express) is a web-based database management tool that is built inside the Oracle Database. It supports key performance management and basic database administration functions. From an architectural perspective, EM Express has no mid-tier or middleware components, ensuring that its overhead on the database server is negligible.

Incorrect:

Not B: For one database at a time.

Not C, Not E: Enterprise Manager Database Express features can be used against non-CDBs or Oracle RAC database instances.

Not D: After the installation, your instance is started and your database is open. In the future, there will be times, perhaps for doing database maintenance or because of a power or media failure, that you shut down your database instance and later restart it.

QUESTION NO: 2

Examine the following command;

```
ALTER SYSTEM SET enable_ddl_logging = TRUE;
```

Which statement is true?

- A. Only the data definition language (DDL) commands that resulted in errors are logged in the alert log file.
- B. All DDL commands are logged in the alert log file.
- C. All DDL commands are logged in a different log file that contains DDL statements and their execution dates.
- D. Only DDL commands that resulted in the creation of new segments are logged.
- E. All DDL commands are logged in XML format in the alert directory under the Automatic Diagnostic Repository (ADR) home.

Answer: B

Explanation: *By default Oracle database does not log any DDL operations performed by any user. The default settings for auditing only logs DML operations.

*Oracle 12c DDL Logging – ENABLE_DDL_LOGGING

The first method is by using the enabling a DDL logging feature built into the database. By default it is turned off and you can turn it on by setting the value of ENABLE_DDL_LOGGING initialization parameter to true.

*We can turn it on using the following command. The parameter is dynamic and you can turn it on/off on the go.

```
SQL> alter system set ENABLE_DDL_LOGGING=true;
```

System altered.

Elapsed: 00:00:00.05

```
SQL>
```

Once it is turned on, every DDL command will be logged in the alert log file and also the log.xml file.

QUESTION NO: 3

In which two scenarios do you use SQL* Loader to load data?

- A. Transform the data while it is being loaded into the database.
- B. Use transparent parallel processing without having to split the external data first.
- C. Load data into multiple tables during the same load statement.
- D. Generate unique sequential key values in specified columns.

Answer: A,D

Explanation: You can use SQL*Loader to do the following:

/ (A) Manipulate the data before loading it, using SQL functions.

/ (D) Generate unique sequential key values in specified columns.

etc:

/ Load data into multiple tables during the same load session.

/Load data across a network. This means that you can run the SQL*Loader client on a different system from the one that is running the SQL*Loader server.

/Load data from multiple datafiles during the same load session.

/Specify the character set of the data.

/Selectively load data (you can load records based on the records' values).

/Use the operating system's file system to access the datafiles.

/Load data from disk, tape, or named pipe.

/Generate sophisticated error reports, which greatly aid troubleshooting.

/Load arbitrarily complex object-relational data.

/Use secondary datafiles for loading LOBs and collections.

/Use either conventional or direct path loading. While conventional path loading is very flexible, direct path loading provides superior loading performance.

Note:

*SQL*Loader loads data from external files into tables of an Oracle database. It has a powerful data parsing engine that puts little limitation on the format of the data in the datafile.

QUESTION NO: 4

You are connected to a pluggable database (PDB) as a common user with DBA privileges. The STATISTICS_LEVEL parameter is PDB_MODIFIABLE. You execute the following:
SQL > ALTER SYSTEM SET STATISTICS_LEVEL = ALL SID = '*' SCOPE = SPFILE;
Which is true about the result of this command?

- A. The STATISTICS_LEVEL parameter is set to all whenever this PDB is re-opened.
- B. The STATISTICS_LEVEL parameter is set to ALL whenever any PDB is reopened.
- C. The STATISTICS_LEVEL parameter is set to all whenever the multitenant container database (CDB) is restarted.
- D. Nothing happens; because there is no SPFILE for each PDB, the statement is ignored.

Answer: C

Explanation:

Note:

*In a container architecture, the parameters for PDB will inherit from the root database. That means if statistics_level=all in the root that will cascade to the PDB databases. You can over ride this by using Alter system set, if that parameter is pdb modifiable, there is a new column in v\$system_parameter for the same.

QUESTION NO: 5

Which two are prerequisites for performing a flashback transaction?

- A. Flashback Database must be enabled.
- B. Undo retention guarantee for the database must be configured.
- C. EXECUTE privilege on the DBMS_FLASHBACK package must be granted to the user flashing back transaction.
- D. Supplemental logging must be enabled.
- E. Recycle bin must be enabled for the database.
- F. Block change tracking must be enabled for the database.

Answer: B,C

Explanation: B:Specify the RETENTION GUARANTEE clause for the undo tablespace to ensure that unexpired undo data is not discarded.

C:You must have the EXECUTE privilege on the DBMS_FLASHBACK package.

Note:

*Use Flashback Transaction to roll back a transaction and its dependent transactions while the database remains online. This recovery operation uses undo data to create and run the corresponding compensating transactions that return the affected data to its original state.

(Flashback Transaction is part of DBMS_FLASHBACK package.)

Reference: Oracle Database Advanced Application Developer's Guide 11g, Using Oracle Flashback Technology

QUESTION NO: 6

Which three features work together, to allow a SQL statement to have different cursors for the same statement based on different selectivity ranges?

- A. Bind Variable Peeking
- B. SQL Plan Baselines
- C. Adaptive Cursor Sharing
- D. Bind variable used in a SQL statement
- E. Literals in a SQL statement

Answer: A,C,E

Explanation:

*In bind variable peeking (also known as bind peeking), the optimizer looks at the value in a bind variable when the database performs a hard parse of a statement. When a query uses literals, the optimizer can use the literal values to find the best plan. However, when a query uses bind variables, the optimizer must select the best plan without the presence of literals in the SQL text. This task can be extremely difficult. By peeking at bind values the optimizer can determine the selectivity of a WHERE clause condition as if literals had been used, thereby improving the plan.

C: Oracle 11g/12g uses Adaptive Cursor Sharing to solve this problem by allowing the server to compare the effectiveness of execution plans between executions with different bind variable values. If it notices suboptimal plans, it allows certain bind variable values, or ranges of values, to use alternate execution plans for the same statement. This functionality requires no additional configuration.

QUESTION NO: 7

On your Oracle 12c database, you issue the following commands to create indexes
SQL > CREATE INDEX oe.ord_customer_ix1 ON oe.orders (customers_id, sales_rep_id)
INVISIBLE; SQL> CREATE BITMAP INDEX oe.ord_customer_ix2 ON oe.orders
(customers_id, sales_rep_id);

Which two statements are correct?

- A. Both the indexes are created; however, only the ORD_COSTOMER index is visible.

- B. The optimizer evaluates index access from both the Indexes before deciding on which index to use for query execution plan.
- C. Only the ORD_CUSTOMER_IX1 index is created.
- D. Only the ORD_CUSTOMER_IX2 index is created.
- E. Both the indexes are updated when a new row is inserted, updated, or deleted In the orders table.

Answer: A,E

Explanation:

11G has a new feature called Invisible Indexes. An invisible index is invisible to the optimizer as default. Using this feature we can test a new index without effecting the execution plans of the existing sql statements or we can test the effect of dropping an index without dropping it.

QUESTION NO: 8

Your multitenant container database has three pluggable databases (PDBs): PDB1, PDB2, and PDB3.

Which two RMAN commands may be; used to back up only the PDB1 pluggable database?

- A. BACKUP PLUGGABLE DATABASE PDB1 while connected to the root container
- B. BACKUP PLUGGABLE DATABASE PDB1 while connected to the PDB1 container
- C. BACKUP DATABASE while connected to the PDB1 container
- D. BACKUP DATABASE while connected to the boot container
- E. BACKUP PLUGGABLE database PDB1 while connected to PDB2

Answer: A,C

Explanation:

To perform operations on a single PDB, you can connect as target either to the root or directly to the PDB.

* (A)If you connect to the root, you must use the PLUGGABLE DATABASE syntax in your RMAN commands. For example, to back up a PDB, you use the BACKUP PLUGGABLE DATABASE command.

* (C)If instead you connect directly to a PDB, you can use the same commands that you would use when connecting to a non-CDB. For example, to back up a PDB, you would use the BACKUP DATABASE command.

Reference:Oracle Database Backup and Recovery User's Guide12c,About Backup and Recovery of CDBs

QUESTION NO: 9

Identify three benefits of Unified Auditing.

- A. Decreased use of storage to store audit trail rows in the database.
- B. It improves overall auditing performance.
- C. It guarantees zero-loss auditing.
- D. The audit trail cannot be easily modified because it is read-only.
- E. It automatically audits Recovery Manager (RMAN) events.

Answer: A,B,E

Explanation:

A: Starting with 12c, Oracle has unified all of the auditing types into one single unit called Unified auditing. You don't have to turn on or off all of the different auditing types individually and as a matter of fact auditing is enabled by default right out of the box. The AUD\$ and FGA\$ tables have been replaced with one single audit trail table. All of the audit data is now stored in Secure Files table thus improving the overall management aspects of audit data itself.

B: Further the audit data can also be buffered solving most of the common performance related problems seen on busy environments.

E: Unified Auditing is able to collect audit data for Fine Grained Audit, RMAN, Data Pump, Label Security, Database Vault and Real Application Security operations.

Note:

*Benefits of the Unified Audit Trail

The benefits of a unified audit trail are many:

/ (B) Overall auditing performance is greatly improved. The default mode that unified audit works is Queued Write mode. In this mode, the audit records are batched in SGA queue and is persisted in a periodic way. Because the audit records are written to SGA queue, there is a significant performance improvement.

/ The unified auditing functionality is always enabled and does not depend on the initialization parameters that were used in previous releases

/(A) The audit records, including records from the SYS audit trail, for all the audited components of your Oracle Database installation are placed in one location and in one format, rather than your having to look in different places to find audit trails in varying formats. This consolidated view enables auditors to co-relate audit information from different components. For example, if an error occurred during an INSERT statement, standard auditing can indicate the error number and the SQL that was executed. Oracle Database Vault-specific information can indicate whether this error happened because of a command rule violation or realm violation. Note that there will be two audit records with a distinct AUDIT_TYPE. With this unification in place, SYS audit records appear with AUDIT_TYPE set to Standard Audit.

/ The management and security of the audit trail is also improved by having it in single audit trail.

You can create named audit policies that enable you to audit the supported components listed at the beginning of this section, as well as SYS administrative users. Furthermore, you can build conditions and exclusions into your policies.

*Oracle Database 12c Unified Auditing enables selective and effective auditing inside the Oracle database using policies and conditions. The new policy based syntax simplifies management of auditing within the database and provides the ability to accelerate auditing based on conditions.

*The new architecture unifies the existing audit trails into a single audit trail, enabling simplified management and increasing the security of audit data generated by the database.

QUESTION NO: 10

You upgraded from a previous Oracle database version to Oracle Database version to Oracle Database 12c. Your database supports a mixed workload. During the day, lots of insert, update, and delete operations are performed. At night, Extract, Transform, Load (ETL) and batch reporting jobs are run. The ETL jobs perform certain database operations using two or more concurrent sessions.

After the upgrade, you notice that the performance of ETL jobs has degraded. To ascertain the cause of performance degradation, you want to collect basic statistics such as the level of parallelism, total database time, and the number of I/O requests for the ETL jobs.

How do you accomplish this?

- A. Examine the Active Session History (ASH) reports for the time period of the ETL or batch reporting runs.
- B. Enable SQL tracing for the queries in the ETL and batch reporting queries and gather diagnostic data from the trace file.
- C. Enable real-time SQL monitoring for ETL jobs and gather diagnostic data from the V\$SQL_MONITOR view.
- D. Enable real-time database operation monitoring using the DBMS_SQL_MONITOR.BEGIN_OPERATION function, and then use the DBMS_SQL_MONITOR.REPORT_SQL_MONITOR function to view the required information.

Answer: D

Explanation: *Monitoring database operations

Real-Time Database Operations Monitoring enables you to monitor long running database tasks such as batch jobs, scheduler jobs, and Extraction, Transformation, and Loading (ETL) jobs as a composite business operation. This feature tracks the progress of SQL and PL/SQL queries associated with the business operation being monitored. As a DBA or developer, you can define business operations for monitoring by explicitly specifying the start and end of the operation or implicitly

with tags that identify the operation.