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Oracle Database 12c Essentials

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QUESTION 1

```
You create the following data redaction policy for the HR.EMPLOYEES table.

BEGIN
  DBMS_REDACT.ADD_POLICY(
    object_schema => 'HR',
    object_name   => 'EMPLOYEES',
    column_name   => 'SALARY',
    column_description => 'emp_sal_comm shows employee salary and commission',
    policy_name   => 'redact_emp_sal_comm',
    function_type  => DBMS_REDACT.PARTIAL,
    function_parameters => '9,1,4',
    expression    => '1=1');
END;
/
BEGIN
  DBMS_REDACT.ALTER_POLICY(
    object_schema => 'HR',
    object_name   => 'EMPLOYEES',
    policy_name   => 'redact_emp_sal_comm',
    action        => DBMS_REDACT.ADD_COLUMN,
    column_name   => 'COMMISSION_PCT',
    function_type  => DBMS_REDACT.PARTIAL,
    function_parameters => '9,1,1',
    expression    => '1=1');
END;
```

Which two statements about this policy are true?

- A. It replaces the first four digits of the value from the SALARY column with the number 9.
- B. It replaces the first digit of the value from the SALARY column with the number 4.
- C. It replaces the first digit of the value from the COMMISSION_PCT column with 9.
- D. It replaces the first nine digits of the value from the COMMISSION_PCT column with 1.
- E. It uses the full data redaction method.
- F. It uses the random redaction method.

Correct Answer: DF

QUESTION 2

Why does performance degrade when many UPDATE, INSERT, or DELETE statements are issued on a table that has an associated bitmap index?

- A. The DML operations re-create the bitmap index blocks.
- B. The bitmap index is rebuilt automatically after a DML operation.
- C. The smallest amount of a bitmap that can be locked is a bitmap segment.
- D. Additional time is taken to remove NULL values from the bitmap index after a DML operation.



Correct Answer: C

Bitmap indexes in currently "supported" versions of Oracle are maintained in a much more efficient manner than they were previously, to the point where the need for frequently rebuilds has been much reduced, even in tables in which such indexes are not dropped during heavy loads.

That said, Bitmap indexes are still unsuitable in OLTP type environments (even in 11g or later) due to the locking implications associated with them.

Note: bitmap indexes are only suitable for static tables and materialized views which are updated at night and rebuilt after batch row loading.

Not B: Like b-tree indexes, bitmap indexes should be rebuilt (ALTER INDEX . . . REBUILD) if there is a lot of DML (UPDATE, INSERT, DELETE) activity.

Not A: Since 10g, Oracle is significantly more efficient and where possible will simply adjust the current rowid range of the Bitmap index entry and modify the bitmap string accordingly to accommodate a new row value (resulting in an overall increase of just 2 bytes overall in this example) rather than create a totally new index entry (which required an additional 21 bytes in the 9i example).

QUESTION 3

Which three statements are true about a database instance that has mounted a database but has not opened it?

- A. System administrators and users with the CREATE SESSION system privilege may connect to the instance.
- B. Data files are open in read-only mode.
- C. A control file is open.
- D. System Global Area (SGA) is allocated and background processes are started.
- E. An alert log and trace files are open.
- F. Instance recovery is performed for the database.

Correct Answer: ABD

QUESTION 4

Which option represents a function of Global Data Services (GDS)?

- A. performs data replication
- B. performs database failovers



- C. replaces the functionality of Oracle Clusterware and Oracle RAC
- D. coordinates site failovers
- E. works seamlessly with Oracle Site Guard

Correct Answer: AB

QUESTION 5

Which three options correctly match environment variables with their specific functionality?

- A. ORACLE_SID specifies the instance name.
- B. ORACLE_SID specifies the global database name.
- C. ORACLE_BASE specifies the root of the Oracle Database directory tree in all platforms.
- D. ORACLE_BASE specifies the root of the Oracle Database directory tree only in UNIX and Linux platforms.
- E. ORACLE_HOME specifies the directory containing the Oracle software executables and network files.
- F. ORACLE_HOME specifies the directory containing only the Oracle software executables, but not the network files.

Correct Answer: ACE

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