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Vendor:Oracle

Exam Code:1Z0-064

Exam Name:Oracle Database 12c: Performance
Management and Tuning

Version:Demo

QUESTION 1

Your database supports an online transaction processing (OLTP) workload. The database uses ASM storage. One of the ASM disks goes offline because of hardware failure. When the disk is replaced and then added back to the diskgroup, database performance is affected by rebalance operations.

Which two actions would you recommend to lower the impact of rebalance operations on the performance of the database? (Choose two.)

- A. Increase the number of ASMB processes.
- B. Decrease the value of the ASM_POWER_LIMIT parameter.
- C. Set the DISK_REPAIR_TIME disk attribute to a lower value.
- D. Specify the POWER clause with a lower value in an ALTER DISKGROUP statement.
- E. Set the DISK_REPAIR_TIME disk attribute to a higher value.

Correct Answer: BD

QUESTION 2

Examine the parameters set for your database instance: You notice that for one particular SQL statement, the optimizer generates a new better plan than the plans in the SQL Plan Management Base.

NAME	TYPE	VALUE
optimizer_capture_sql_plan_baselines	boolean	TRUE
optimizer_use_sql_plan_baselines	boolean	TRUE

Which action is taken by the optimizer? (Choose the best answer.)

- A. It adds the newly generated plan as an accepted but non-fixed plan.
- B. It adds the newly generated plan as enabled and accepted.
- C. It adds the newly generated plan as enabled but not accepted.
- D. It adds the newly generated plan as a fixed plan, which will be used each time the SQL statement is executed.

Correct Answer: B

QUESTION 3

You observe that queries are performing poorly on the SALES_RECORDS table in your database. On investigation, you find that at the end of each day the contents of the SALES_RECORDS table are moved to the SALES_HISTORY table. The delete operations cause the table to be sparsely populated.

The SALES_RECORDS table is created in a tablespace using Automatic Segment Space Management (ASSM) and row movement is enabled. The table must be accessible 24x7.

Which two tasks would you recommend to improve the performance? (Choose two.)

- A. Perform EXPORT, DROP, and IMPORT operations on the SALES_RECORDS table.
- B. Shrink the SALES_RECORDS table by using the ALTER TABLE...SHRINK SPACE command.
- C. Move the SALES_RECORDS table to a different location by using the ALTER TABLE...MOVE command.
- D. Deallocate the space in the SALES_RECORDS table by using the ALTER TABLE...DEALLOCATE UNUSED command.
- E. Move the SALES_RECORDS table to a tablespace by using manual segment space management.
- F. Reorganize the SALES_RECORDS table online by using the DBMS_REDEFINITION package.

Correct Answer: BD

QUESTION 4

Which two statements are true about Active Session History (ASH)? (Choose two.)

- A. The Data Sample size available in an ASH report is dynamic and, at any given moment, is directly related to the amount of work being performed.
- B. ASH contains sampled data from all sessions that are connected to a database instance at any given moment.
- C. ASH samples data from V\$SESSION every second.
- D. An ASH report can be used to identify the service that may be the cause of a transient performance problem.

Correct Answer: CD

QUESTION 5

You are administrating a database that supports a DSS workload. Syntactically similar queries using joins and aggregate functions are frequently executed by users to fetch data from remote databases by using database links.

Which three tasks should you perform to improve the performance of these queries?

- A. Ensure that the RESULT_CACHE_MAX_RESULT parameter is set to 100.
- B. Ensure that the RESULT_CACHE_REMOTE_EXPIRATION parameter is set to a nonzero value for the local instance.
- C. Ensure that the RESULT_CACHE_MAX_SIZE parameter is set to a nonzero value on the local database instance.
- D. Ensure that the RESULT_CACHE_MAX_SIZE parameter is set to a nonzero value on both the local and remote database instances.
- E. Ensure that the RESULT_CACHE_MAX_SIZE parameter is set to a nonzero value on the remote database instance.

F. Ensure that the RESULT_CACHE_MAX_MODE parameter is set to FORCE for the local instance.

G. Ensure that the RESULT_CACHE_MODE parameter is set to FORCE for remote database instances.

Correct Answer: BCF

QUESTION 6

Your database supports an OLTP system.

Examine the parameter values configured in your database:

sga_max_size = 480M

sga_target = 480M

pga_aggregate_target = 160M

The CUSTOMERS table contains 8,000 rows. The CUST_ID column is the primary key and the COUNTRY_ID column contains only three possible values: 1111, 2222, and 3333.

You execute the commands:

```
SQL> EXECUTE DBMS_STATS.GATHER_TABLE_STATS('SH\\', 'CUSTOMERS\\');
```

PL/SQL procedure successfully completed.

```
SQL> CREATE INDEX COUNTRY_IDX ON CUSTOMERS (COUNTRY_ID);
```

Index created.

You then perform a series of INSERT, UPDATE, and DELETE operations on the table. View the Exhibit to examine the query and its execution plan.

```
SQL> SELECT COUNT(*)
FROM CUSTOMERS
WHERE COUNTRY_ID = 2222;
```

```

COUNT(*)
-----
          150

```

```
SQL> select * from table(dbms_xplan.display_cursor(null,null,'basic rows'));
```

```
PLAN_TABLE_OUTPUT
```

```
-----
EXPLAINED SQL STATEMENT:
```

```
-----
SELECT COUNT(*) FROM CUSTOMERS WHERE COUNTRY_ID = 2222;
```

```
Plan hash value: 568322376
```

```
-----
| ID   | Operation                | Name          | Rows   |
-----|-----|-----|-----|
|    0 | SELECT STATEMENT         |               |        |
|    1 |   SORT AGGREGATE         |               |        |
|    2 |    TABLE ACCESS FULL    | CUSTOMERS     |   8000 |
-----|-----|-----|-----|
```

Which two options can improve the performance of the query without significantly slowing down the DML operations? (Choose two.)

- A. creating a bitmap index on the COUNTRY_ID column
- B. regathering statistics on the CUSTOMERS table
- C. gathering statistics on the COUNTRY_IDX index
- D. creating a histogram on the COUNTRY_ID column
- E. increasing the size of the PGA
- F. creating a SQL profile
- G. creating a KEEP cache

Correct Answer: AD

QUESTION 7

Examine the parameters set for a database instance supporting a mixed workload:

NAME	TYPE	VALUE
memory_max_target	big integer	0
memory_target	big integer	0
pga_aggregate_target	big integer	376M
sga_max_size	big integer	1G
sga_target	big integer	0
sort_area_size	integer	65536

The database instance supports shared server and dedicated server connections simultaneously. Users complain about increased response times of a few DSS queries. During investigation, you execute the queries:

```
SQL> SELECT d.value as disk, m.value as memory, (d.value/m.value)*100 as ratio
FROM v$sysstat m, v$sysstat d
WHERE m.name='sorts (memory)' and d.name='sorts (disk)';
DISK      MEMORY      RATIO
-----
9180      80477      11.40699
SQL> SELECT name,value FROM v$sysstat WHERE name LIKE 'workarea executions%';
NAME
-----
workarea executions - multipass      89
workarea executions - optimal      49654
workarea executions - onepass      1367
```

Based on the output, which two courses of action would you recommend to improve query performance? (Choose two.)

- A. Use a parallel hint in the queries.
- B. Increase the number of DBWn processes.
- C. Increase the value of the SORT_AREA_SIZE initialization parameter.
- D. Increase the size of the temporary tablespace or add a new temporary tablespace.
- E. Increase the value of the PGA_AGGREGATE_TARGET initialization parameter.
- F. Increase the size of the large pool.

Correct Answer: CF

QUESTION 8

In which three situations does DB time always increase? (Choose three.)

- A. when the host is CPU bound for foreground processes
- B. when I/O wait time increases for foreground processes
- C. when more connections are made to a database instance
- D. when CPU consumption by background processes increases
- E. when wait time for data to be sent over a network increases

Correct Answer: BCD

QUESTION 9

Examine this list of possible tasks:

1.
Ensure that STATISTICS_LEVEL is set to TYPICAL or ALL.
2.
Ensure that TIMED_STATISTICS is set to TRUE.
3.
Set MAX_DUMP_FILE_SIZE to UNLIMITED and DIAGNOSTIC_DEST to an appropriate destination.
4.
Ensure that SQL_TRACE is set to TRUE.
5.
Enable tracing at the database instance level by using the DBMS_MONITOR.DATABASE_TRACE_ENABLE procedure.
6.
Enable tracing in the required session by using the DBMS_SESSION.SET_SQL_TRACE procedure.
7.
Run TKPROF with the EXPLAIN parameter on the output trace file.
8.
Run the trcsess utility on the output trace files, and then run TKPROF on the output of the trcsess utility.

Select the minimum tasks to perform, in the correct order, to generate both a formatted trace file with timing information and an explain plan for each SQL statement for all sessions. (Choose the best answer.)

- A. 1, 2, 5, 8
- B. 1, 3, 6, 7

C. 2, 4, 5, 8

D. 1, 3, 4, 5, 6, 7

E. 1, 2, 4, 8

Correct Answer: C

QUESTION 10

In which three situations can dynamic statistics be used? (Choose three.)

A. when the sampling time is a small fraction of the total time for a query

B. when an execution plan is suboptimal because of complex predicates

C. when extended statistics are not available for SQL statements that use complex predicates

D. when a query is on a partitioned table with a global index

E. when index statistics are missing on a column that is used in SQL statements with highly selective filters

Correct Answer: BCD

QUESTION 11

A parallel SQL statement is taking a long time to execute. You want to verify how the server processes are dividing work.

How should you determine this?

A. by using Real-Time ADDM

B. by using services

C. by using SQL Tuning Advisor

D. by using ASH

E. by using Real-Time SQL monitoring

Correct Answer: B

Reference: https://docs.oracle.com/cd/B10501_01/server.920/a96520/tuningpe.htm

QUESTION 12

Which two are prerequisites for running the I/O calibration tool? (Choose two.)

A. The database must be in MOUNT state.

B. The database should be opened in restricted mode.

C. For determining latency time, the STATISTICS_LEVEL parameter must be set to TYPICAL or ALL.

D. The disks to be tested must be configured to use asynchronous I/O for data files.

E. The database instance must be started using an SPFILE.

Correct Answer: AE