1Z0-054^{Q&As}

Oracle Database 11g: Performance Tuning

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QUESTION 1

Examine the SQL statement given below:

SQL> EXPLAIN PLAN for SELECT department_name,count(*) FROM hr.employees e, hr.departments d WHERE e.department_id=d.department_id GROUP BY d.department_name;

To view the execution plan for the statement, you queried plan_table. View the Exhibit and examine the execution plan.Which two statements are true about the execution plan? (Choose two.)

```
SQL> SELECT id "id",parent_id "par", position "pos",
       lpad(' ',2*level)||operation||decode(id,0,'cost='||POSITION) 'operation',
       options "option", object_name "object", object_node "table queue",
       other_tag "parllel oper type", distribution "row dist",other 'slave SQL'
FROM plan_table
CONNECT by prior id=parent_id START WITH id=0
ORDER BY id

 id par pos operation                      option       object      table queu parllel oper type    row dist    slave SQL
 --- --- --- ------------------------------ ------------ ----------- ---------- -------------------- ----------  -----------
  0       4   SELECT STATEMENTcost=4
  1   0   1     HASH                         GROUP BY
  2   1   1       NESTED LOOPS
  3   2   1         TABLE ACCESS             FULL         DEPARTMENTS
  4   2   2         INDEX                    RANGE SCAN   EMP_DEPARTME
                                                         NT_IX
```

A. The execution plan is displayed for the executed SQL statement.

B. The EXPLAIN PLAN command does not actually execute the statement.

C. The row with the id column having a value of 4 is the first step executed in the execution plan.

D. The row with the id column having a value of 0 is the first step executed in the execution plan.

Correct Answer: BC

QUESTION 2

You work for ABC Pvt Ltd. The company has recently upgraded one of its development databases to Oracle Database 11g from Oracle Database 10g. You noticed that the System Global Area (SGA) is undersized as shown in the Exhibit. To investigate further, you checked the related parameters as shown below: SQL> show parameter sga_max_size NAME TYPE VALUE -------------------------------- -------------- ----------------- sga_max_size big integer 500M SQL> show parameter target NAME TYPE VALUE -------------------------------- -------------- ------------------ archive_lag_target integer 0 db_flashback_retention_target integer 1440 fast_start_io_target integer 0 fast_start_mttr_target integer 0 memory_max_target big integer 0 memory_target big integer 0 pga_aggregate_target big integer 384M sga_target big integer 384M

Which is the best solution that you would recommend?

ADDM Performance Analysis

Period Start Time **Jul 28, 2008 4:00:52 PM GMT+07:00**   Period Duration (minutes) **60.08**   Instance **orcl.us.oracle.com**

Impact (%) ▽	Finding	Occurrences (last 24 hrs)
100	Undersized SGA	6 of 25
42.2	CPU Usage	7 of 25
6.7	PL/SQL Compilation	5 of 25
5.3	Top SQL by DB Time	9 of 25
2.8	Hard Parse Due to Sharing Criteria	4 of 25

Policy Violations

All 12   Critical Rules Violated 9   Critical Security Patches 0   ⓘ Compliance Score (%) 92

A. Increase the value of the SGA_MAX_SIZE parameter.

B. Set MEMORY_MAX_TARGET and MEMORY_TARGET parameters.

C. Reduce the value of the PGA_AGGREGATE_TARGET parameter.

D. Increase the value of both SGA_TARGET and PGA_AGGREGATE_TARGET parameters.

E. Diagnose further to identify which component in SGA is undersized and then resize it.

Correct Answer: B

QUESTION 3

The users in your online transaction processing (OLTP) environment complain that the response time of the application has increased dramatically. To investigate the problem, view the Exhibit and examine the queries you executed. What do you infer?

```
SQL> SELECT name profile, cnt, decode(total, 0, 0, round(cnt*100/total))
  2    percentage
  3    FROM (SELECT name, value cnt, (sum(value) over ()) total FROM V$SYSSTAT
  5    WHERE name like 'workarea exec%');

PROFILE                                       CNT PERCENTAGE
----------------------------------------- --------- ----------
workarea executions - optimal               42095         95
workarea executions - onepass                  15          0
workarea executions - multipass              1986          5

SQL> SELECT * FROM V$PGASTAT;

NAME                                               VALUE UNIT
----------------------------------------- -------------- -----------
aggregate PGA target parameter                  20971520 bytes
aggregate PGA auto target                        4194304 bytes
global memory bound                               154624 bytes
total PGA inuse                                108472320 bytes
total PGA allocated                            207599616 bytes
maximum PGA allocated                          239077376 bytes
total freeable PGA memory                       19988480 bytes
process count                                         55
max processes count                                   62
PGA memory freed back to OS                    523763712 bytes
total PGA used for auto workareas                5240832 bytes
maximum PGA used for auto workareas              7198720 bytes
total PGA used for manual workareas                    0 bytes
maximum PGA used for manual workareas             537600 bytes
over allocation count                               1988
bytes processed                               8550086656 bytes
extra bytes read/written                       2.4251E+10 bytes
cache hit percentage                               26.06 percent
recompute count (total)                             1988

19 rows selected.
```

A. Cursor sharing is not enabled.

B. The large pool is not configured.

C. The temporary tablespace is full.

D. The value set for the SHARED_POOL_SIZE initialization parameter is too small.

E. The value set for the PGA_AGGREGATE_TARGET initialization parameter is too small.

Correct Answer: E

QUESTION 4

What type of redundancy would you recommend for the Automatic Storage Management (ASM) of a file system based on RAID level 1 for the optimum performance of database using ASM storage?

A. high redundancy

B. normal redundancy

C. external redundancy

D. use both ASM mirroring and hardware mirroring

Correct Answer: C

QUESTION 5

You are working as a DBA in ABC Corp. You are working on an online transaction processing (OLTP) database. The database size has grown to 100 GB. The database will support new applications and more users will be added. Presently, the database uses normal file system storage. However, before the new applications are added, you want to move the storage to RAID. You are in consultation with the OS Administrator for finalizing the RAID option.Performance is the primary goal of the database because applications are demanding in terms of I/O operations and it should have lower mean recovery time (MTTR) than the current MTTR. Which RAID option would you recommend?

A. RAID level 0

B. RAID level 1

C. RAID level 5

D. RAID level 1 over 0(0+1)

Correct Answer: B

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