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Oracle Database 11g: Performance Tuning

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QUESTION 1

You are managing an online transaction processing (OLTP) application database. Some users on the system are reporting degradation in the performance of SQL statements. To diagnose the problem, you want to identify the SQL statements that are expensive on system resources.What would you recommend to accomplish the task? (Choose all that apply.)

A. running SQL Access Advisor

B. running SQL Performance Analyzer

C. querying the V$SQLSTATS and V$SQL_PLAN views to get the information

D. creating an Automatic Workload Repository (AWR) report for the problematic period

Correct Answer: CD

QUESTION 2

View the Exhibit that shows your investigation of performance degradation in your database.You also know that there are a few tablespaces using automatic segment-space management in the database.What could be the problem?

```
SQL> SELECT event, total_waits, total_timeouts, time_waited, average_wait
  2  FROM v$system_event
  3  WHERE event='buffer busy waits';

EVENT                    TOTAL_WAITS TOTAL_TIMEOUTS TIME_WAITED AVERAGE_WAIT
------------------------ ----------- -------------- ----------- ------------
buffer busy waits             636528           1557      549700   .863591232


SQL> SELECT * FROM v$waitstat WHERE class='segment header';

CLASS              COUNT       TIME
------------------ ----------- -----------
segment header           61113       70278
```

A. There are excessive disk sorts.

B. There are excessive memory sorts.

C. There is a contention due to free list management.

D. The tablespace that contains the segments on which waits are occurring is full.

E. The server process is processing buffers at a rate that is faster than the rate at which the I/O system can return the buffers.

Correct Answer: C

QUESTION 3

You work for a small manufacturing company as a DBA. The company has various applications to manage the details of its business and customer base. The company has only one sales outlet where the operator updates the SALES table in the sales application with the details when a product is sold. The company has many other applications for various other businesses that use the same database. The sales operator, while generating a report, noticed that there are some gaps generated in the serial number in the SLNO column during peak hours of business. On investigating, you find that the SLNO column in the SALES table uses the SLNSEQ sequence to generate the serial numbers when a record is inserted. During peak hours, you noticed the following: When the operator entered the sales details the last time, the sequence number was 1056300, but when you checked the sequence as follows, you found a gap of 100 numbers:
SQL> SELECT sequence_name, last_number FROM user_sequences WHERE sequence_name=\\'SLNSEQ\\';
SEQUENCE_NAME LAST_NUMBER

SLNSEQ 1056400

You observed this behavior many times and only during peak hours.

What could be the problem and solution for this?

A. The reserved pool is not configured. Configure the reserved pool.

B. The keep buffer pool is not configured. Configure the keep buffer pool.

C. The sequence was created with a CACHE of 100 numbers. Re-create the sequence with a higher CACHE number.

D. The sequence is aging out of the shared pool. Keep the sequence in the shared pool using the DBMS_SHARED_POOL.KEEP procedure.

Correct Answer: D

QUESTION 4

You analyze an Automatic Database Diagnostic Monitor (ADDM) report to identify the component that contributes most to the database time. Which is the correct description of database time?

A. It is the sum of the CPU time of all nonidle sessions.

B. It is the sum of wait time and the CPU time of all nonidle sessions.

C. It is the time spent in processing the input/output (I/O) request by users.

D. It is the difference between the wait time and the CPU time of all nonidle sessions.

Correct Answer: B

QUESTION 5

You work in an online transaction processing (OLTP) environment and users are experiencing slow response time on their queries. These users connect as FINANCE to run their application and run hundreds of sessions.

Your investigation shows that there is lot of I/O contention happening on only one temporary tablespace and there is no load on other temporary tablespaces. View the Exhibit and examine the details. After some time you observed that the

sort operations are running out of temporary space.

What would be a long-term solution?

Tablespace IO Stats

- ordered by IOs (Reads + Writes) desc

Tablespace	Reads	Av Reads/s	Av Rd(ms)	Av Blks/Rd	Writes	Av Writes/s	Buffer Waits	Av Buf Wt(ms)
TEMP_L	1,117,171	335	0.01	1.14	361,518	108	819	19.29
SYSTEM	72,497	22	0.73	12.71	1,079	0	18	57.22
EXAMPLE	33,665	10	0.89	16.86	1	0	1	480.00
SYSAUX	10,662	3	1.95	2.30	3,102	1	0	0.00
UNDOTBS1	1,411	0	0.11	1.00	573	0	3	
TEMP	5	0	0.00	1.00	0	0	0	
LOADTEST1	3	0	0.00	1.00	1	0	0	

A. Configure the large pool if it is not done already.

B. Change the temporary tablespace assigned to this user ID.

C. Create and assign temporary tablespace group to this user ID.

D. Increase the number of database writer (DBWn) processes ID.

E. Make the bigger temporary tablespace the default temporary tablespace ID.

Correct Answer: C

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