



1Z0-054^{Q&As}

Oracle Database 11g: Performance Tuning

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QUESTION 1

You are working as a DBA in ABC Corp. You are working on online transaction processing (OLTP) system. The database uses ASM storage. One of the ASM disk goes offline because of hardware failure. When the disk is added back again after the fix, because the database is active, rebalance operations impact the I/O subsystem. Which two recommendations would you give to lower the impact on the I/O subsystem? (Choose two.)

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

Correct Answer: CF

QUESTION 2

The SALES table in your database undergoes frequent changes. While observing the statistics for the table in the middle of the day, you find a change since the last observation. But the information about the statistics collection is not recorded in the DBA_TAB_STATS_HISTORY. Identify the reason for this.

- A. The AWR retention time was set to zero.
- B. The STATISTICS_LEVEL parameter was set to BASIC.
- C. Some of the statistics were collected using the ANALYZE command.
- D. There were user-defined statistics that were set by using the DBMS_STATS.SET_TABLE_STATS procedure.

Correct Answer: C

QUESTION 3

You are working on an online transaction processing (OLTP) system. By day most of the application users perform queries accessing the most recently added or modified rows. The applications have most of the queries based on multiple tables. But at night, some batch processing is also done. Which two actions would you recommend to choose a goal for the optimizer based on the needs of your application? (Choose two.)

- A. setting the OPTIMIZER_MODE parameter to ALL_ROWS at the instance level
- B. setting the OPTIMIZER_MODE parameter to FIRST_ROWS_n at the instance level



- C. asking the developer to add a hint /*ALL_ROWS*/ in the long-running batch processing queries
- D. asking the developer to add a hint /*FIRST_ROWS_n*/ in the long-running batch processing queries

Correct Answer: BC

QUESTION 4

Identify the situation in which you would use the Automatic Workload Repository (AWR) baseline template.

- A. when creating AWR snapshots based on a repeating time schedule
- B. when creating and dropping AWR baselines based on a repeating time schedule
- C. when computing statistics for all moving window baselines based on a repeating time schedule in the future
- D. when resetting the threshold values for the SYSTEM_MOVING_WINDOW baseline based on a repeating time schedule in the future

Correct Answer: B

QUESTION 5

You work as a consultant DBA for various clients. A performance issue in one of the online transaction processing (OLTP) systems is reported to you and you received the Automatic Workload Repository (AWR) report generated in the database. The main sections of the AWR report are shown in the Exhibits. View the Exhibit named DBTIME and note % DB Time.

Top 5 Timed Foreground Events

Event	Waits	Time(s)	Avg wait (ms)	% DB time	Wait Class
DB CPU		108		94.00	
db file sequential read	315,309	5	0	4.02	User I/O
latch: shared pool	1,227	0	0	0.41	Concurrency
db file parallel read	186	0	1	0.16	User I/O
control file sequential read	3,935	0	0	0.05	System I/O

View the Exhibit named TIMEMODEL and note what has contributed to % DB Time.



Time Model Statistics

- Total time in database user-calls (DB Time): 114.8s
- Statistics including the word "background" measure background process time, and so do not contribute to the DB time statistic
- Ordered by % of DB time desc. Statistic name

Statistic Name	Time (s)	% of DB Time
sql execute elapsed time	111.41	97.02
DB CPU	107.95	94.00
parse time elapsed	85.03	74.05
hard parse elapsed time	73.55	64.05
PL/SQL execution elapsed time	5.83	5.08
PL/SQL compilation elapsed time	2.20	1.92
hard parse (sharing criteria) elapsed time	0.46	0.40
connection management call elapsed time	0.24	0.38
hard parse (bind mismatch) elapsed time	0.27	0.24
sequence load elapsed time	0.06	0.05
repeated bind elapsed time	0.02	0.01
DB time	114.83	
background elapsed time	2.90	
background cpu time	0.95	



View the Exhibit named EFFICIENCY and examine the various percentages shown.

Instance Efficiency Percentages (Target 100%)

Buffer Nowait %:	100.00	Redo NoWait %:	100.00
Buffer Hit %:	74.49	In-memory Sort %:	100.00
Library Hit %:	88.42	Soft Parse %:	34.91
Execute to Parse %:	3.01	Latch Hit %:	99.95
Parse CPU to Parse Elapsed %:	0.01	% Non-Parse CPU:	34.91



Identify the option that has the correct answers for the questions given below:

- 1) Which factor indicates the main problem?
- 2) What is the main problem?
- 3) What solution would you recommend?

A. 1) The Exhibit DBTIME shows that the DB CPU event consumed very high % DB Time. 2) The CPU is very slow. 3) Increase the number of processors.

B. 1) hard parse elapsed time has the majority time in parse time elapsed, which is shown in the TIMEMODEL Exhibit. 2) This is due to inadequate Database Buffer Cache. 3) Increase the size of database buffer cache.



C. 1) sql execute elapsed time and parse time elapsed are consuming very high % DB Time in the TIMEMODEL Exhibit. 2) There are too many soft parses. 3) Investigate the HOLD_CURSOR parameter setting in the application and set it appropriately.

D. 1) % Non-Parse CPU is low and Soft Parse % is also low in the EFFICIENCY Exhibit. This shows that very few statements are found in the cache. 2) There are too many hard parses. 3) Investigate the CURSOR_SHARING parameter setting and set it appropriately.

Correct Answer: D

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