



1Z0-054^{Q&As}

Oracle Database 11g: Performance Tuning

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QUESTION 1

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	310,309	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	0.34	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 %:	74.43	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

QUESTION 2

View the Exhibit and examine the content.



```
SQL> SELECT tablespace_name, tablespace_size, allocated_space, free_space FROM DBA_TEMP_FREE_SPACE;
```

TABLESPACE_NAME	TABLESPACE_SIZE	ALLOCATED_SPACE	FREE_SPACE
TEMP_L	157286400	144048128	157220864
TEMP	105906176	105906176	0

```
SQL> SELECT (s.tot_used_blocks/f.total_blocks)*100 as pctused  
2 FROM (SELECT SUM(used_blocks) tot_used_blocks  
3 FROM V$SORT_SEGMENT  
4 WHERE tablespace_name='TEMP_L') s,  
5 (SELECT SUM(blocks) total_blocks  
6 FROM DBA_TEMP_FILES  
7 WHERE tablespace_name='TEMP_L') f;
```

PCTUSED
0



ALLOCATED_SPACE and FREE_SPACE indicate that a large amount of space is allocated to the temporary tablespace that is being used. Which action would reclaim the space and refresh these values?

- A. shrinking the tablespace
- B. closing all the current sessions
- C. restarting the database instance
- D. forcing a checkpoint or waiting for a checkpoint to occur

Correct Answer: A

QUESTION 3

You are working on a decision support system (DSS). The index is available on the COUNTRY_ID column of the CUSTOMERS table. View the Exhibit and examine the parameter settings and the query execution plan.



```
NAME                                     TYPE      VALUE
-----
db_file_multiblock_read_count          integer    49
```

```
SQL> SELECT BLOCKS, EMPTY_BLOCKS FROM ALL_TABLES
WHERE TABLE_NAME = 'CUST';
```

```
BLOCKS EMPTY_BLOCKS
-----
2902      0
```

```
SQL> EXEC DBMS_STATS.GATHER_TABLE_STATS('SH','CUST');
```

PL/SQL procedure successfully completed.

```
SQL> select cust_id, cust_last_name from sh.cust where country_id=52790;
```

74080 rows selected.

Execution Plan

Plan hash value: 260468903

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		74150	1303K	793 (1)	00:00:10
* 1	TABLE ACCESS FULL	CUST	74150	1303K	793 (1)	00:00:10

Predicate Information (identified by operation id):

```
1 - filter("COUNTRY_ID"=52790)
```

Statistics

```
0 recursive calls
0 db block gets
7659 consistent gets
2848 physical reads
0 redo size
1584703 bytes sent via SQL*Net to client
54738 bytes received via SQL*Net from client
4940 SQL*Net roundtrips to/from client
```



Why is the query using a full table scan instead of an index scan?

- A. because the histogram statistics for the COUNTRY_ID column are not updated
- B. because the index statistics for the index on the COUNTRY_ID column are not current
- C. because the DB_FILE_MULTIBLOCK_READ_COUNT initialization parameter is set to a higher value



D. because the optimizer predicts that most of the blocks in the table are accessed. Therefore, it uses a full table scan, even though indexes are available.

Correct Answer: D

QUESTION 4

Identify two correct statements about the Active Session History (ASH) data. (Choose two.)

- A. A part of SGA memory is used to store ASH data as rolling buffer.
- B. The ASH data can be analyzed between any two small time intervals.
- C. All ASH data in memory are flushed to disk by MMON in every 3 seconds.
- D. All ASH data in memory are flushed to disk by MMNL process whenever the buffer is full.

Correct Answer: AB

QUESTION 5

In which case is the database buffer cache NOT used?

- A. when physical I/Os are performed to read from data files
- B. when the database writer process writes to the SYSTEM tablespace
- C. when the server process writes sort data to the temporary tablespace
- D. when the database writer process writes undo data to the undo tablespace

Correct Answer: C

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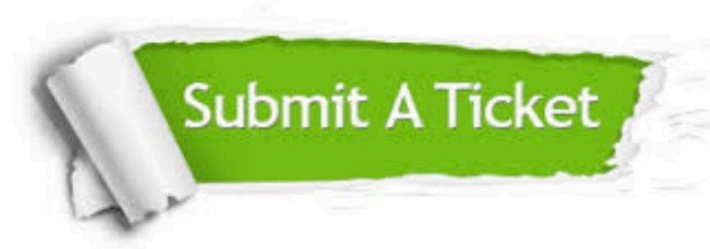
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