



1Z0-054^{Q&As}

Oracle Database 11g: Performance Tuning

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**QUESTION 1**

You generate an AWR Compare Periods Report for two consecutive time periods as a routine activity to monitor your database performance. View the Exhibit and examine the partial details of the Time Model Statistics generated in the report. Which two statements give a correct inference based on the DB Time and DB CPU in the Time Model Statistics? (Choose two.)

Time Model Statistics

- Ordered by absolute value of 'Diff' column of '% of DB time' descending (DB time statistic first, background statistics last)

Statistic Name	% of DB time			Time (seconds)			Time per Trans (seconds)		
	1st	2nd	Diff	1st	2nd	%Diff	1st	2nd	%Diff
DB time	100.00	100.00	0.00	170.36	54.22	-68.17	0.05	0.04	-20.00
sql execute elapsed time	87.63	89.33	1.71	149.28	48.44	-67.55	0.04	0.04	0.00
parse time elapsed	1.19	0.70	-0.49	2.02	0.38	-81.19	0.00	0.00	0.00
hard parse elapsed time	0.45	0.02	-0.42	0.76	0.01	-98.68	0.00	0.00	0.00
PL/SQL execution elapsed time	58.53	58.95	0.42	99.71	31.96	-67.95	0.03	0.03	0.00
DB CPU	56.65	56.74	0.09	96.52	30.77	-68.12	0.03	0.03	0.00
connection management call elapsed time	0.41	0.50	0.09	0.70	0.27	-61.43	0.00	0.00	0.00

- A. More CPU time was used for background processes in the first time period.
- B. A change to the database configuration reduced the % DB time for transactions.
- C. More of DB Time was consumed by background processes in the first time period.
- D. A reduction in Hard Parse activity resulted in a reduction of DB CPU Time (in seconds).
- E. More transactions were processed in the first time period based on the DB Time values.

Correct Answer: BD

QUESTION 2

You observed very low cache-hit ratio in your database as shown below:

```
SQL> SELECT (1-((phy.value-phyd.value) / (cur.value + con.value))) * 100 2 "Cache Hit ratio"
```

```
3 FROM v$sysstat cur, v$sysstat con, v$sysstat phy, v$sysstat phyd 4 WHERE cur.name = 'db block gets'
```

```
5 AND con.name = 'consistent gets'
```

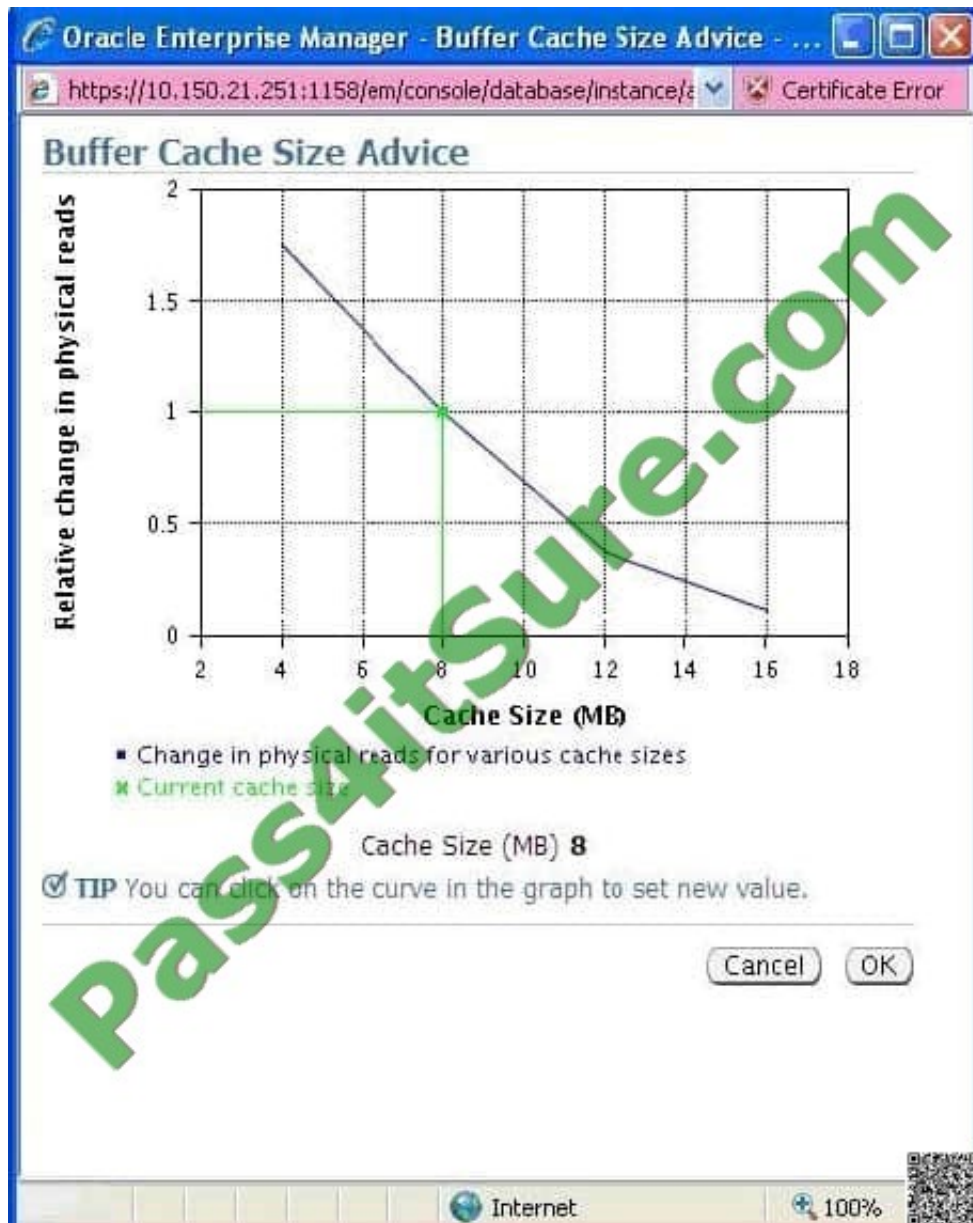
```
6 AND phy.name = 'physical reads'
```



7 AND phyd.name = '\\physical reads direct\\';

Cache Hit Ratio

After further investigation, you decided to increase the database buffer cache size. You are using the Buffer Cache Advisor to check the appropriate size for the buffer cache. View the Exhibit and examine the graph shown by the advisory. What can you infer from the graph?



- A. The buffer cache size can be set to 12 MB for optimal performance.
- B. The buffer cache size can be set to more than 16 MB to get more benefit.
- C. The buffer cache size can be set to more than 16 MB but there would be no benefit from it.
- D. The buffer cache size cannot be set to more than 16 MB because the SGA_MAX_SIZE value does not allow that.

Correct Answer: B

**QUESTION 3**

Examine the output of the following query: SQL> SELECT tablespace_name, tablespace_size, allocated_space, free_space 2 FROM DBA_TEMP_FREE_SPACE; TABLESPACE_NAME TABLESPACE_SIZE ALLOCATED_SPACE FREE_SPACE ----- TEMP_L 157286400 144048128 157220864 TEMP 105906176 105906176 0 After some time you executed the same command and observed a different output, as shown below: SQL> SELECT tablespace_name, tablespace_size, allocated_space, free_space 2 FROM DBA_TEMP_FREE_SPACE; TABLESPACE_NAME TABLESPACE_SIZE ALLOCATED_SPACE FREE_SPACE ----- TEMP_L 131072 65536 65536 TEMP 105906176 105906176 0

Why has the output changed?

- A. because checkpoint occurred
- B. because the TEMP_L tablespace was shrunk
- C. because the database instance was restarted
- D. because no sort operations are running currently

Correct Answer: B

QUESTION 4

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 5

Examine the following block:

BEGIN

```
DBMS_WORKLOAD_REPOSITORY.DROP_BASELINE (baseline_name => '\\peak baseline\\', cascade => FALSE,  
dbid => 3310949047);
```

END;

Why would you use the FALSE value for the CASCADE parameter while dropping the baseline?

A. because it does not remove snapshots associated with the baseline

B. because it does not drop the template that is used to create the baseline

C. because it does not remove the baseline from the performance page if it appears there

D. because it does not remove the Automatic Database Diagnostic Management (ADDM) results from the Automatic Workload Repository (AWR) that were generated using the baseline

Correct Answer: A

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