



1Z0-054^{Q&As}

Oracle Database 11g: Performance Tuning

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QUESTION 1

View the Exhibit and examine a portion of the output obtained from the following query:

STAT_ID	STAT_NAME	VALUE
3649082374	DB time	61021783
2748282437	DB CPU	3890625
4157170894	background elapsed time	42472524
2451517896	background cpu time	2796875
4127043053	sequence load elapsed time	0
1431555225	parse time elapsed	10983653
372226525	hard parse elapsed time	10480831
2821658184	sql execute elapsed time	50353110
1990024365	connection management call elapsed time	855906

```
SQL> SELECT * FROM v$sys_time_model;
```

Select three correct interpretations of the time model statistics. (Choose three.)

- A. DB time includes the wait time of all the nonidle and idle user sessions.
- B. SQL execute elapsed time includes the time spent in performing fetches of query results.
- C. DB CPU includes the CPU time spent on database user-level calls and background CPU time.
- D. SQL execute elapsed time includes components of the hard parse elapsed time like bind elapsed time.
- E. DB time includes the connection management call elapsed time excluding the background process time.

Correct Answer: BDE

QUESTION 2

You work as a DBA for a company and as a performance improvement measure, you implemented the result cache in your database. Many users in the company

say that performance has improved on the queries they use, but some users complain that they have not got any performance benefit on the queries they use.

You checked all the queries they use and the following is one of them:

```
SQL> SELECT /*+ RESULT_CACHE */ slnoq.currval as "SLNO", prod_id, pdname, 2 cust_name FROM sales WHERE sl_date
```

View the Exhibit and examine the testing performed to check this.



```
SQL> EXECUTE DBMS_RESULT_CACHE.FLUSH;
```

```
PL/SQL procedure successfully completed.
```

```
SQL> EXECUTE DBMS_RESULT_CACHE.MEMORY_REPORT;
```

```
Result Cache Memory Report
```

```
[Parameters]
```

```
Block Size = 1K bytes
```

```
Maximum Cache Size = 1376K bytes (1376 blocks)
```

```
Maximum Result Size = 68K bytes (68 blocks)
```

```
[Memory]
```

```
Total Memory = 5132 bytes [0.004% of the Shared Pool]
```

```
... Fixed Memory = 5132 bytes [0.004% of the Shared Pool]
```

```
... Dynamic Memory = 0 bytes [0.000% of the Shared Pool]
```

```
PL/SQL procedure successfully completed.
```

```
SQL> SELECT /*+ RESULT_CACHE */ slnoq.currval as "SLNC", prod_id, pdname, cust_name
```

```
2 FROM sales
```

```
3 WHERE sl_date < sysdate;
```

```
*****
```

```
*****
```

```
SQL> EXECUTE DBMS_RESULT_CACHE.MEMORY_REPORT;
```

```
Result Cache Memory Report
```

```
[Parameters]
```

```
Block Size = 1K bytes
```

```
Maximum Cache Size = 1376K bytes (1376 blocks)
```

```
Maximum Result Size = 68K bytes (68 blocks)
```

```
[Memory]
```

```
Total Memory = 5132 bytes [0.004% of the Shared Pool]
```

```
... Fixed Memory = 5132 bytes [0.004% of the Shared Pool]
```

```
... Dynamic Memory = 0 bytes [0.000% of the Shared Pool]
```

Why is the result cache not used? (Choose all that apply.)

- A. because the query uses SYSDATE
- B. because the query uses an alias for a column
- C. because the query uses the SLNOQ.CURRVAL sequence
- D. because the table might have an index on the SL_DATE column

Correct Answer: AC

QUESTION 3



Identify the type of recommendation that can automatically be implemented by the Automatic Tuning Advisor as part of automatic SQL tuning task?

- A. recommendation for SQL profiles
- B. recommendation about effective indexing
- C. recommendation about stale or no statistics
- D. recommendation about the structure of SQL statements

Correct Answer: A

QUESTION 4

As a DBA configuring a new instance, you want to run a representative workload on the instance and examine the relevant statistics to see whether the cache is underconfigured or overconfigured. Given below is a list of the initialization parameters that would affect the statistics collection and advisories.

1.
STATISTICS_LEVEL set to BASIC
2.
STATISTICS_LEVEL set to TYPICAL
3.
DB_CACHE_ADVICE set to ON
4.
TIMED_STATISTICS set to TRUE

Which of the above initialization parameters\ values must be set explicitly to get the relevant statistics with minimal impact on the overall database performance?

- A. only 2
- B. 2 and 3
- C. 1, 3, and 4
- D. 2, 3, and 4

Correct Answer: A

QUESTION 5

The users in your online transaction processing (OLTP) environment complain that the query response time has



increased considerably. You checked the Program Global Area (PGA)- related information in the AWR report to investigate it further. View the Exhibit named PGAHIT and note the PGA cache-hit percentage.

PGA Aggr Summary

- PGA cache hit % - percentage of W/A (WorkArea) data processed only in-memory

PGA Cache Hit %	W/A MB Processed	Extra W/A MB Read/Written
25.99	15,986	45,458

View the Exhibit named PGAADV and analyze the content.

PGA Memory Advisory

- When using Auto Memory Mgmt, minimally choose a pga_aggregate_target value where Estd PGA Overalloc Count is 0

PGA Target Est (MB)	Size Factr	W/A MB Processed	Estd Extra W/A MB Read/ Written to Disk	Estd PGA Cache Hit %	Estd PGA Overalloc Count	Estd Time
10	0.50	15,972.74	32,222.39	33.00	854	504,221
15	0.75	15,972.74	32,222.39	33.00	854	504,221
20	1.00	15,972.74	22,728.29	41.00	854	404,893
24	1.20	15,972.74	22,728.29	41.00	854	404,893
28	1.40	15,972.74	22,728.29	41.00	854	404,893
32	1.80	15,972.74	22,728.29	41.00	854	404,893
36	1.80	15,972.74	22,728.29	41.00	854	404,893
40	2.00	15,972.74	22,728.29	41.00	854	404,893
60	3.00	15,972.74	22,728.29	41.00	854	404,893
80	4.00	15,972.74	22,728.29	41.00	854	404,893
120	6.00	15,972.74	22,687.95	41.00	346	404,471
160	8.00	15,972.74	7,324.74	69.00	0	243,740

If you want to increase the size of PGA, you have sufficient memory available in the system. What would be the correct decision?

- Double the size of PGA.
- Increase the size of PGA to 120 MB.
- Increase the size of PGA to 160 MB or more.
- Leave the PGA at its current size and investigate other possible causes.

Correct Answer: C



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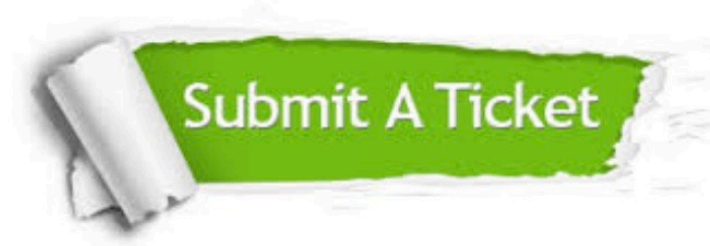
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