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Vendor:Oracle

Exam Code:1Z0-054

Exam Name:Oracle Database 11g: Performance
Tuning

Version:Demo

QUESTION 1

You are working as a DBA for a DSS system, on which applications primarily perform large sequential I/Os. The company wants to upgrade the storage used by the database to faster hard disks. What other factors would you consider before giving the go-ahead for the new hard disks? (Choose all that apply.)

- A. the sizing of PGA to meet the faster data access
- B. the sizing of buffer cache to meet the faster data access
- C. the time it takes for a submitted I/O request to be serviced by the storage
- D. the capacity of the I/O channel that connects the server to the storage array

Correct Answer: CD

QUESTION 2

Your organization has purchased licenses for the Diagnostic Pack along with the Oracle Database 11g software. The application workload on your database is known to be stable between 10:00 PM and midnight every night, but the performance on a particular Thursday was poor between 10:00 PM and 11:00 PM. Which tool would you consider using first to diagnose the cause of the performance degradation?

- A. Database Replay
- B. STATSPACK Report
- C. AWR Compare Report
- D. SQL Performance Analyzer

Correct Answer: C

QUESTION 3

Examine the values for the following initialization parameters:

STATISTICS_LEVEL = TYPICAL TIMED_STATISTICS = true You are managing an online transaction processing (OLTP) system. Application users notice that some queries have poor response time. You determine that queries from session ID 27, serial number 60, for user OE are heavy-resource

consumers. To investigate further, you enabled tracing for the session by executing the following command: SQL> EXECUTE dbms_system.set_sql_trace_in_session (27, 60, true); Which statement is true?

- A. The tkprof output file for the trace generated would display only the timed statistics for the SQL statements.
- B. The tkprof output file for the trace generated would display statistics for all the sessions created by the user OE.

C. The tkprof output file for the trace generated would display bind variable values if bind variables are used in the queries executed in the session.

D. The tkprof output file for the trace generated would not display bind variable values if bind variables are used in the queries executed in the session.

Correct Answer: D

QUESTION 4

Your system has been upgraded from Oracle Database 10g to Oracle Database 11g. You imported SQL Tuning Sets (STS) from the previous version that contains important SQL statements. You are not sure about the elapsed time that the SQL statements will have in the new system due to the version change of the optimizer. Which tool provides a comparative report with respect to the elapsed time in both versions of the optimizer?

A. SQL Access Advisor

B. SQL Tuning Advisor (STA)

C. SQL Performance Analyzer (SPA)

D. Automatic Workload Repository (AWR) compare period report

Correct Answer: C

QUESTION 5

You are working on an online transaction processing (OLTP) system. You detected free buffer waits events for your database instance running in a machine that has multiple CPUs. You increased the database buffer cache size as the first step. After a few hours of work on the database, further investigation shows that the same event is being recorded. What would be your next step to avoid this event in future?

A. Decrease the value of the DBWR_IO_SLAVES parameter.

B. Set the USE_INDIRECT_DATA_BUFFERS parameter to TRUE.

C. Increase the value of the DB_WRITER_PROCESSES parameter.

D. Increase the value of the DB_FILE_MULTIBLOCK_READ_COUNT parameter.

Correct Answer: C

QUESTION 6

Which two inferences are correct about the CPU time and the wait time that appear in the Automatic Workload Repository AWR and Statspack reports in the Top 5 Event section? (Choose two.)

A. Adding CPUs to systems showing increased wait time due to contention will improve response time.

- B. Systems where the CPU time is dominant in comparison to the wait time have optimal response time.
- C. Increase in wait time when the CPU time increases or remains the same indicates an increase in the load on the system.
- D. Systems where the proportion of CPU time does not decrease significantly with increasing load would most likely benefit from adding CPUs.
- E. The appearance of CPU time together with wait time in the Top 5 Event section of the AWR report of a system always indicates high contention.

Correct Answer: CD

QUESTION 7

You work as a DBA and you have the responsibility of managing a large online transaction processing (OLTP) system. You used the following query during the

performance tuning activity:

```
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

98.43

Which understanding of this ratio is correct?

- A. 98.43% of times the requests have found free buffers.
- B. 98.43% of the total number of requests used the buffer cache.
- C. 98.43% of times the requests were satisfied by performing physical I/Os.
- D. 98.43% of times the requests have found the required data blocks in the buffer cache.

Correct Answer: D

QUESTION 8

The columns CUST_CITY, CUST_STATE_PROVINCE, and COUNTRY_ID are frequently used together in the WHERE clause of the queries. The CUSTOMERS table is a big table with 20 GB of data. You notice that the selectivity for these three columns varies from the selectivity that the optimizer calculates. What would you recommend to influence the

selectivity calculated by the optimizer?

- A. creating function-based indexes by concatenating all the columns
- B. updating histogram statistics for these columns by using the DBMS_STATS.GATHER_TABLE_STATS procedure
- C. using the DBMS_STATS.CREATE_EXTENDED_STATS function to create a virtual column and create index on the virtual column
- D. using the DBMS_STATS.CREATE_EXTENDED_STATS function to create a virtual column and the DBMS_STATS.GATHER_TABLE_STATS procedure to collect statistics on the virtual column

Correct Answer: D

QUESTION 9

Which three factors influence the optimizer's behavior while choosing an optimization approach and goal for a SQL statement? (Choose three.)

- A. parsing of a SQL statement
- B. operating system (OS) statistics
- C. object statistics in the data dictionary
- D. the OPTIMIZER_MODE initialization parameter
- E. optimizer SQL hints for changing the query optimizer goal

Correct Answer: CDE

QUESTION 10

View the Exhibit that shows your investigation on degraded performance. What would you do? (Choose all that apply.)

```
SQL> SELECT event, total_waits, total_timeouts, time_waited, average_wait
 2 FROM v$sqlsystem_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. Shrink the temporary segment.

- B. Keep the large tables in the KEEP pool.
- C. Use free list groups wherever applicable.
- D. Increase the value set to the PGA_AGGREGATE_TARGET parameter.
- E. Switch the segments to Automatic Segment Space Management (ASSM).

Correct Answer: CE

QUESTION 11

You receive a recommendation for a SQL statement through the automatic SQL tuning process that suggests implementing a SQL profile. You implement the SQL profile. The tables associated with the SQL statement grow, and indexes are created and dropped on these tables. What would happen to the SQL profile that is created for the SQL statement?

- A. It becomes outdated immediately after the tables change.
- B. It is maintained automatically along with the changes in the tables.
- C. The profile will be used for the changed plans of the SQL statement.
- D. The plan for the SQL statement is frozen until it is regenerated by the SQL Tuning Advisor.

Correct Answer: C

QUESTION 12

View the Exhibit and examine the plans in the SQL plan baseline. You observe that the last two SELECT statements (outlined in red and blue) are identical, but have two different plans. Also, the second plan (in blue) is not being used by the optimizer. Which two steps do you perform to ensure that the optimizer uses the second plan (in blue) if the plan is more efficient? (Choose two.)

Select All | Select None

Select Name	SQL Text	Enabled	Accepted	Fixed	Auto Purge	Created	Last Modified
<input type="checkbox"/> SYS_SQL_PLAN_ba5e158c52d2775d	DELETE FROM PLAN_TABLE WHERE STATEMENT_ID=:1	YES	YES	NO	YES	Jul 20, 2008 5:12:07 PM	Jul 20, 2008 5:12:07 PM
<input type="checkbox"/> SYS_SQL_PLAN_331fa51fdf463620	SELECT PLAN_TABLE_OUTPUT FROM TABLE(DBMS_XPLAN.DIS	YES	YES	NO	YES	Jul 20, 2008 5:12:06 PM	Jul 20, 2008 5:12:06 PM
<input checked="" type="checkbox"/> SYS_SQL_PLAN_184921b7cf314e9e	select * from employees where job_id='CLERK'	YES	YES	NO	YES	Jul 20, 2008 5:15:31 PM	Jul 20, 2008 5:15:31 PM
<input type="checkbox"/> SYS_SQL_PLAN_184921b70572d2e8	select * from employees where job_id='CLERK'	YES	NO	NO	YES	Jul 20, 2008 5:17:33 PM	Jul 20, 2008 5:17:33 PM

TIP The table will display maximum of 2000 rows. Use search criteria to get the desired results.

- A. Mark the second plan (in blue) as fixed.
- B. Use SQL Tuning Advisor to tune the plan.
- C. Use SQL Access Advisor to tune the plan.

D. Use the DBMS_SPM.EVOLVE_SQL_PLAN_BASELINE function to evolve the plan.

Correct Answer: BD

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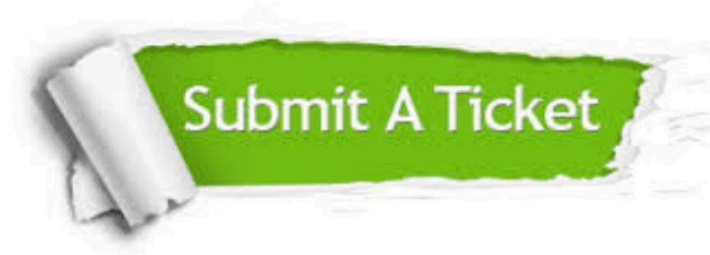
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