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Oracle 1Z0-084 Exam

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Oracle Database 19c Performance and Tuning Management Sample

Questions (Q18-Q23):

NEW QUESTION # 18

This error occurred more than four hours ago in the database:

ORA-04036 PGA memory used by the instance exceeds PGA_AGGREGATE_LIMIT

You want to know which process and query were at fault.

Which two views should you use for this purpose?

- A. DBA_HIST_ACTIVE_SESS_HISTORY
- B. DBA_HIST_SQLTEXT
- C. DBA_HIST_PGASTAT
- D. DBA_HIST_SQLSTAT
- E. DBA_HIST_PROCESS_MEM_SUMMARY

Answer: A,E

Explanation:

To investigate the cause of the ORA-04036 error, which indicates that PGA memory usage exceeds the PGA_AGGREGATE_LIMIT, the appropriate views to consult are DBA_HIST_ACTIVE_SESS_HISTORY and DBA_HIST_PROCESS_MEM_SUMMARY.

* DBA_HIST_ACTIVE_SESS_HISTORY: This view provides historical information about active sessions in the database. It includes details about the SQL executed, the execution context, and the resources consumed by each session. By examining this view, you can identify the specific sessions and SQL queries that were active and potentially consuming excessive PGA memory around the time the ORA-04036 error occurred.

* DBA_HIST_PROCESS_MEM_SUMMARY: This view contains historical summaries of memory usage by processes. It can help in identifying the processes that were consuming a significant amount of PGA memory, leading to the ORA-04036 error. This view provides aggregated memory usage information over time, making it easier to pinpoint the processes responsible for high PGA memory consumption.

Together, these views offer a comprehensive overview of the memory usage patterns and specific queries or processes that might have contributed to exceeding the PGA_AGGREGATE_LIMIT, resulting in the ORA-04036 error.

References:

- * Oracle Database Reference: DBA_HIST_ACTIVE_SESS_HISTORY
- * Oracle Database Reference: DBA_HIST_PROCESS_MEM_SUMMARY
- * Oracle Database Performance Tuning Guide: Managing Memory

NEW QUESTION # 19

18. The application provider has given full indications regarding the procedure to collect statistics.

To reduce the space used in the SYSAUX tablespace, you want to prevent the optimizer statistics Advisor from running.

Which method will allow you to do this?

- A. Set the AUTO_STATS_ADVISOR_TASK global statistics preference to FALSE.
- B. Use DBMS_STATS.DROP_ADVISOR_TASK to drop the AUTO_STATS_ADVISOR_TASK task.
- C. Use DBMS_AUTO_TASK_ADMIN.DISABLE to disable the AUTO_STATS_ADVISOR_TASK task.
- D. Set the parameter OPTIMIZER_ADAPTIVE_STATISTICS to FALSE.

Answer: C

Explanation:

The Oracle Optimizer statistics advisor, which is part of the automated tasks framework, can be disabled using the DBMS_AUTO_TASK_ADMIN package. This will prevent it from running and thus reduce space usage in the SYSAUX tablespace.

References:

- * Oracle Database PL/SQL Packages and Types Reference, 19c

NEW QUESTION # 20

For which two actions can SQL Performance Analyzer be used to assess the impact of changes to SQL performance?

- A. operating system and hardware migrations
- B. storage, network, and interconnect changes

- C. database consolidation for pluggable databases (PDBs)
- D. changes to database initialization parameters
- E. operating system upgrades

Answer: C,D

Explanation:

SQL Performance Analyzer (SPA) can be used to assess the impact of different types of changes on SQL performance. These changes can include database initialization parameters, which can significantly affect how SQL statements are executed and therefore their performance. SPA allows you to capture a workload before and after the change and compare the performance of each SQL statement.

Database consolidation, including moving to pluggable databases (PDBs), can also affect SQL performance.

SPA can analyze the SQL workload to see how consolidation impacts performance, by comparing metrics such as elapsed time and CPU time before and after the consolidation.

References:

* Oracle Database SQL Tuning Guide, 19c

* Oracle Database Performance Tuning Guide, 19c

NEW QUESTION # 21

You want to reduce the amount of db file scattered read that is generated in the database. You execute the SQL Tuning Advisor against the relevant workload. Which two can be part of the expected result?

- A. recommendations regarding the creation of additional indexes
- B. recommendations regarding the creation of SQL Patches
- C. recommendations regarding rewriting the SQL statements
- D. recommendations regarding partitioning the tables
- E. recommendations regarding the creation of materialized views

Answer: A,E

Explanation:

The SQL Tuning Advisor provides recommendations for improving SQL query performance. This may include suggestions for creating additional indexes to speed up data retrieval and materialized views to precompute and store query results.

References:

NEW QUESTION # 22

Database performance degraded between 23:15 and 23:30 for the last three nights. The awr snapshot interval is one hour. The AODM report contains nothing about this performance problem.

With which tool can you further analyze this problem?

- A. Active Session History report
- B. SQL Tuning Advisor
- C. SQL Performance Analyzer
- D. AWR Compare Periods report

Answer: A

Explanation:

The Active Session History (ASH) report is a tool that provides detailed information about active sessions for the time period specified. Since the AWR snapshot interval is one hour and does not capture the granularity needed for this issue, ASH reports are more suitable as they contain more granular data for sessions that were active during the period of interest.

References:

* Oracle Database Performance Tuning Guide, 19c

NEW QUESTION # 23

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