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Oracle Database 19c Performance and Tuning Management Sample Questions (Q31-Q36):

NEW QUESTION # 31

Multiple sessions are inserting data concurrently into a table that has an LOB column.

At some point in time, one of the sessions cannot find available space in the LOB segment and needs to allocate a new extent.

Which wait event will be raised in the other sessions that need space in the LOB column?

- A. enq: TM - contention
- B. enq: TX - allocate ITL entry
- C. enq: SQ - contention
- D. enq: HW - contention

Answer: D

Explanation:

When sessions concurrently insert data into a table with an LOB column and one session needs to allocate a new extent because it cannot find available space, the wait event associated with this contention is "enq: HW - contention". The HW stands for High Water Mark which is related to space allocation in the database segment. When a session needs to allocate a new extent, it may raise this wait event in other sessions that are also attempting to allocate space in the same LOB segment.

References

* Oracle Database 19c Reference Guide - enq: HW - contention

NEW QUESTION # 32

Examine this AWR report excerpt:

Top 10 Foreground Events by Total Wait Time							
Event	Waits	Total Wait Time (sec)	Avg Wait	% DB time	Wait Class		
DB CPU		14.7K		42.3			
db file sequential read	3,467,279	14K	4.04ms	40.4	User I/O		
gc current grant busy	386,743	224.4	539.50us	4.1	Cluster		
log file sync	50,598	162.3	2.02ms	2.8	Commit		
gc current block 2-way	427,553	96.3	227.36us	1.7	Cluster		
SQL ordered by Reads							
Physical Reads	Executions	Reads per Exec	Elapsed Time (s)	%CPU	%IO	SQL Id	SQL
Module	SQL Text						
511,342	28,519	17.93	6,766.64	57.91	28.60	a17r9r9jz63k2	JDBC
Thin Client UPDATE SALES SET...							
154,496	28,530	5.42	4,556.02	68.74	20.89	4d3ffsuuh8f2q	JDBC
Thin Client UPDATE SALES SET...							
95,933	1,695,105	0.06	213.16	16.18	66.99	wqsjwz37p93ug	JDBC
Thin Client select COUNT(*) FROM...							

You must reduce the impact of database I/O, without increasing buffer cache size and without modifying the SQL statements. Which compression option satisfies this requirement?

- A. ROW STORE COMPRESS ADVANCED
- **B. COLUMN STORE COMPRESS FOR QUERY HIGH**
- C. MN STORE COMPRESS FOR QUERY LOW
- D. STORE COMPRESS

Answer: B

Explanation:

The question asks to reduce database I/O impact without increasing the buffer cache size or modifying SQL statements. This indicates a need to reduce the physical I/O required to access the data. Let's analyze the scenario and the options.

Analysis of the AWR Report:

* Top Wait Events:

* The top foreground wait event is db file sequential read, which accounts for 40.4% of DB time.

This indicates significant physical I/O operations, primarily single-block reads, which are typically associated with index access.

* Reducing the physical I/O associated with db file sequential read can significantly improve performance.

* SQL Ordered by Reads:

* The SQL consuming the most reads involves high physical I/O. This confirms the need to reduce I/O overhead by compressing data efficiently to minimize physical reads.

Compression Techniques and Their Suitability:

* A. COLUMN STORE COMPRESS FOR QUERY LOW:

* This option is a columnar compression method that optimizes for query performance but provides less compression compared to the HIGH option. While effective, it is not as suitable as FOR QUERY HIGH for reducing I/O.

* B. STORE COMPRESS:

* This is the basic compression option for tables and does not offer the advanced capabilities required for reducing significant physical I/O for queries.

* C. ROW STORE COMPRESS ADVANCED:

* This is a row-level compression that is suitable for OLTP workloads. While it reduces storage, it does not reduce query-related I/O as effectively as columnar compression.

* D. COLUMN STORE COMPRESS FOR QUERY HIGH (Correct Option):

* This is the most effective option for reducing query-related I/O. It:

* Uses columnar compression to reduce the size of data stored on disk.

* Reduces the number of physical reads by compressing data highly, meaning fewer blocks need to be read.

* Optimizes query performance for analytical workloads, which aligns with the scenario described in the AWR report.

Why COLUMN STORE COMPRESS FOR QUERY HIGH Is the Best Fit:

* It is designed to improve query performance by minimizing the amount of I/O required.

* Suitable for environments with heavy read operations (as indicated by the db file sequential read waits).

* Does not require changes to SQL or buffer cache size, adhering to the constraints in the question.

Reference to Oracle Documentation:

* Oracle Database 19c Performance Tuning Guide:

* Section: Using Compression to Reduce Storage and I/O Requirements.

* Discussion of columnar compression techniques for reducing I/O in query-intensive environments.

* Oracle Advanced Compression Documentation:

* Details on COLUMN STORE COMPRESS FOR QUERY HIGH and its benefits for analytical workloads.

NEW QUESTION # 33

Which two statements are true about the use and monitoring of Buffer Cache Hit ratios and their value in tuning Database I/O performance?

- A. Both the RECYCLE and KEEP buffer caches should always have a very high cache hit ratio.
- **B. The buffer cache advisory view v\$db_cache_advice provides advice on cache hit ratios appropriate for the instance workload.**
- C. The performance of workloads that primarily generate full table scans and fast full index scans are always affected by the cache hit ratio.
- D. A 60% cache hit ratio can be observed for database instances which have very good I/O performance.
- **E. A 99% cache hit ratio can be observed for database instances which have very poor I/O performance.**

Answer: B,E

NEW QUESTION # 34

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 # 35

Which two statements are true about cursor sharing?

- A. Setting cursor_sharing to EXACT prevents Adaptive Cursor Sharing from being used.
- B. Adaptive Cursor Sharing guarantees that a suboptimal plan will never be used on any execution of a SQL statement.
- C. Setting cursor_sharing to FORCE can result in a plan that is suboptimal for the majority of values bound to a bind variable when executing a cursor with one or more bind variables.
- D. Setting optimizer_capture_sql_plan_baselines to TRUE loads all adaptive plans for the same statement into the cursor cache.
- E. Adaptive Cursor Sharing requires histograms on filtered columns, used in equality predicates, to allow different execution plans to be generated for statements whose bound values would normally generate different plans at hard parse time.

Answer: A,C

Explanation:

A: When cursor_sharing is set to FORCE, Oracle tries to avoid hard parses by replacing literals in SQL statements with bind variables, even if the original statement didn't include bind variables. This can lead to the use of a single execution plan for multiple executions of a statement with different literal values, which might not be optimal for all executions.

D: Setting cursor_sharing to EXACT ensures that SQL statements must match exactly for them to share a cursor. This setting prevents the use of Adaptive Cursor Sharing (ACS) since ACS relies on the ability to share cursors among similar statements that differ only in their literal values. With EXACT, there's no cursor sharing for statements with different literals, hence no opportunity for ACS to operate.

References:

* Oracle Database SQL Tuning Guide, 19c

* Oracle Database Reference, 19c

NEW QUESTION # 36

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