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Oracle Database 19c Performance and Tuning Management Sample Questions (Q53-Q58):

NEW QUESTION # 53

What are the least elevated values of `statistics_level` and `CONTROL_MANAGEMENT_PACK_ACCESS` that allow the usage of Monitoring of Database Operations?

- A. `STATISTICS_LEVEL=TYPICAL` and `CONTROL_MANAGEMENT_PACK_ACCESS=DIAGNOSTIC`
- B. `STATISTICS_LEVEL=ALL` and `CONTROL_MANAGEMENT_PACK_ACCESS=DIAGNOSTIC+TUNING`
- C. `STATISTICS_LEVEL=TYPICAL` and `CONTROL_MANAGEMENT_PACK_ACCESS=DIAGNOSTIC+TUNING`
- D. `STATISTICS_LEVEL=BASIC` and `CONTROL_MANAGEMENT_PACK_ACCESS=DIAGNOSTIC`

Answer: B

Explanation:

Monitoring of Database Operations requires that the `STATISTICS_LEVEL` parameter be set to `ALL` and `CONTROL_MANAGEMENT_PACK_ACCESS` be set to `DIAGNOSTIC+TUNING`. These settings enable all the advisory features and automatic tuning features within the Oracle Database, including the Automatic Workload Repository (AWR), Automatic Database Diagnostic Monitor (ADDM), and the full functionality of the SQL Tuning Advisor and SQL Access Advisor, which are components of the Diagnostic and Tuning packs.

* `STATISTICS_LEVEL=ALL`: This setting enables the collection of all system statistics for problem detection and self-tuning purposes.

* `CONTROL_MANAGEMENT_PACK_ACCESS=DIAGNOSTIC+TUNING`: This grants access to both the Diagnostic Pack and the Tuning Pack, which are essential for detailed performance monitoring and tuning capabilities.

References:

* Oracle Database Reference: `STATISTICS_LEVEL`

* Oracle Database Licensing Information User Manual: Oracle Database Management Packs

NEW QUESTION # 54

Database performance has degraded recently.

index range scan operations on index `ix_sales_time_id` are slower due to an increase in buffer gets on sales table blocks.

Examine these attributes displayed by querying `DBA_TABLES`:

OWNER	TABLE_NAME	NUM ROWS	BLOCKS	EMPTY_BLOCKS	AVG_SPACE
CHAIN_CNT	AVG_ROW_LEN				
SH2	SALES	3675372	18337	0	0
25	37				

Now, examine these attributes displayed by querying `DBA_INDEXES`:

OWNER	TABLE_NAME	INDEX_NAME	LEVEL	LEAF_BLOCKS	DISTINCT_KEYS
AVG_LEAF_BLOCKS	PER_KEY	CLUSTERING_FACTOR	STATUS	NUM ROWS	
SH2	SALES	IX_SALES_TIME_ID	3	353967	3541460
9	2830691	VALID	3675372		

Which action will reduce the excessive buffer gets?

- A. Re-create the SALES table sorted in order of index `IX_SALES_TIME_ID`.
- B. Partition index `IX_SALES_TIME_ID` using hash partitioning.
- C. Re-create the SALES table using the columns in `IX_SALES_TIME_ID` as the hash partitioning key.
- D. Re-create index `IX_SALES_TIME_ID` using `ADVANCED COMPRESSION`.

Answer: D

Explanation:

Given that index range scan operations on IX_SALES_TIME_ID are slower due to an increase in buffer gets, the aim is to improve the efficiency of the index access. In this scenario:

* B (Correct): Re-creating the index using ADVANCED COMPRESSION can reduce the size of the index, which can lead to fewer physical reads (reduced I/O) and buffer gets when the index is accessed, as more of the index can fit into memory.

The other options would not be appropriate because:

* A (Incorrect): Re-creating the SALES table sorted in order of the index might not address the issue of excessive buffer gets.

Sorting the table would not improve the efficiency of the index itself.

* C (Incorrect): Using the columns in IX_SALES_TIME_ID as a hash partitioning key for the SALES table is more relevant to data distribution and does not necessarily improve index scan performance.

* D (Incorrect): Hash partitioning the index is generally used to improve the scan performance in a parallel query environment, but it may not reduce the number of buffer gets in a single-threaded query environment.

References:

* Oracle Database SQL Tuning Guide: Managing Indexes

* Oracle Database SQL Tuning Guide: Index Compression

NEW QUESTION # 55

Which three statements are true about using the in Memory (IM) column store?

- A. It can improve OLTP workload performance by avoiding the use of indexes.
- B. It does not improve performance for queries using user-defined virtual column results.
- C. It does not improve performance for queries using cached results of function evaluations on columns from the same table.
- D. It does not improve performance for queries that use join groups on columns from different tables.
- E. It does not require all database data to fit in memory to improve query performance.
- F. It improves performance for queries joining several tables using bloom filter joins.

Answer: A,E,F

Explanation:

The Oracle In-Memory (IM) column store feature enhances the performance of databases by providing a fast columnar storage format for analytical workloads while also potentially benefiting OLTP workloads.

* C (True): It can improve OLTP workload performance by providing a faster access path for full table scans and reducing the need for indexes in certain scenarios, as the In-Memory store allows for efficient in-memory scans.

* E (True): The In-Memory column store does not require all database data to fit in memory. It can be used selectively for performance-critical tables or partitions, and Oracle Database will manage the population and eviction of data as needed.

* F (True): In-Memory column store can significantly improve performance for queries joining several tables, especially when bloom filters are used, as they are highly efficient with the columnar format for large scans and join processing.

The other options provided are not correct in the context of the In-Memory column store:

* A (False): While In-Memory column store is designed for analytical queries rather than caching results of function evaluations, it does not specifically avoid improving performance for queries using cached results of function evaluations.

* B (False): In-Memory column store can improve the performance of queries that use join groups, which can be used to optimize joins on columns from different tables.

* D (False): In-Memory column store can improve the performance of queries using expressions, including user-defined virtual columns, because it supports expression statistics which help in optimizing such queries.

References:

* Oracle Database In-Memory Guide: In-Memory Column Store in Oracle Database

* Oracle Database In-Memory Guide: In-Memory Joins

* Oracle Database In-Memory Guide: In-Memory Aggregation

NEW QUESTION # 56

An Oracle 19c database uses default values for all optimizer initialization parameters.

After a table undergoes partition maintenance, a large number of wait events occur for:

cursor: pin S wait on X

Which command reduces the number of these wait events?

- A. ALTER SYSTEM SET SESSION CACHED CURSORS = 500;
- B. ALTER SYSTEM SET CURSOR_SPACE_FOR_TIME = TRUE;

- C. ALTER SYSTEM SET CURSOR_SHARING = FORCE;
- D. ALTER SYSTEM SET CURSOR_INVALIDATION = DEFERRED;

Answer: D

Explanation:

The cursor: pin S wait on X wait event suggests contention for a cursor pin, which is associated with mutexes (a type of locking mechanism) that protect the library cache to prevent concurrent modifications.

This issue can often be alleviated by deferring the invalidation of cursors until the end of the call to reduce contention. The correct command to use would be:

* C (Correct): ALTER SYSTEM SET CURSOR_INVALIDATION=DEFERRED; This setting defers the invalidation of dependent cursors until the end of the PL/SQL call, which can reduce the cursor: pin S wait on X wait events.

The other options are incorrect in addressing this issue:

* A (Incorrect): Setting CURSOR_SHARING to FORCE makes the optimizer replace literal values with bind variables. It doesn't address the contention for cursor pins directly.

* B (Incorrect): CURSOR_SPACE_FOR_TIME=TRUE aims to reduce the parsing effort by keeping cursors for prepared statements open. It may increase memory usage but does not directly resolve cursor: pin S wait on X waits.

* D (Incorrect): Increasing SESSION_CACHED_CURSORS caches more session cursors but doesn't necessarily prevent the contention indicated by the cursor: pin S wait on X wait events.

References:

* Oracle Database Reference: CURSOR_INVALIDATION

* Oracle Database Performance Tuning Guide: Reducing Cursor Invalidation

NEW QUESTION # 57

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: SQ - contention
- C. enq: TX - allocate ITL entry
- 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 # 58

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