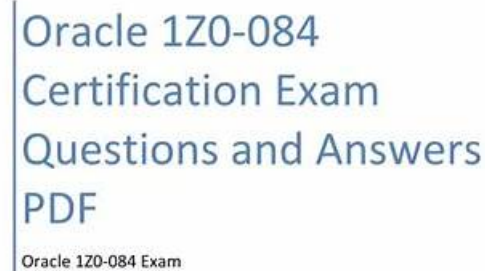


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Oracle 1Z0-084 exam consists of multiple-choice questions that are designed to evaluate the candidate's knowledge and understanding of Oracle Database 19c Performance and Tuning Management. 1z1-084 Exam is conducted online and can be taken from anywhere in the world. 1z1-084 exam is time-bound, and candidates are required to complete it within the specified time limit.

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To prepare for the Oracle 1Z0-084 exam, candidates should have a solid understanding of the Oracle Database architecture and its components. They should also be familiar with the SQL language and have experience in using performance tuning tools such as SQL Tuning Advisor, Automatic Workload Repository (AWR), and Automatic Database Diagnostic Monitor (ADDM). Additionally, candidates should have practical experience in diagnosing and resolving common performance issues.

Oracle Database 19c Performance and Tuning Management Sample Questions (Q34-Q39):

NEW QUESTION # 34

You manage a 19c database with default optimizer settings.

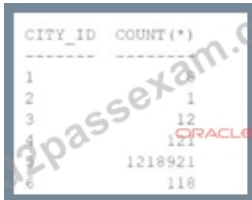
This statement is used extensively as subquery in the application queries:

```
SELECT city_id FROM sh2.sales WHERE city_id=:B1
```

You notice the performance of these queries is often poor and, therefore, execute:

```
SELECT city_id,COUNT(*) FROM sh2.sales GROUP BY city_id;
```

Examine the results:



CITY_ID	COUNT(*)
1	1
2	1
3	12
4	121
1218921	1218921
6	118

There is no index on the CITY_ID column.

Which two options improve the performance?

- **A. Create an index on the CITY ID column.**
- B. Force the subquery to use dynamic sampling.
- C. Activate the adaptive plans.
- **D. Generate frequency histograms on the CITY_ID column.**
- E. Use a SQL Profile to enforce the appropriate plan.

Answer: A,D

Explanation:

In this scenario, creating an index and generating frequency histograms are two methods that can potentially improve performance:

* A (Correct): Generating frequency histograms on the CITY_ID column can help the optimizer make better decisions regarding the execution plan, especially if the data distribution is skewed. Histograms provide the optimizer with more detailed information about the data distribution in a column, which is particularly useful for columns with non-uniform distributions.

* B (Correct): Creating an index on the CITY_ID column would speed up queries that filter on this column, especially if it's used frequently in the WHERE clause as a filter. An index would allow for an index range scan instead of a full table scan, reducing the I/O and time needed to execute such queries.

* C (Incorrect): While SQL profiles can be used to improve the performance of specific SQL statements, they are usually not the first choice for such a problem, and creating a profile does not replace the need for proper indexing or statistics.

* D (Incorrect): Forcing the subquery to use dynamic sampling might not provide a consistent performance benefit, especially if the table statistics are not representative or are outdated. However, dynamic sampling is not as effective as having accurate statistics and a well-chosen index.

* E (Incorrect): Adaptive plans can adjust the execution strategy based on the conditions at runtime.

While they can be useful in certain scenarios, in this case, creating an index and ensuring accurate statistics would likely provide a more significant performance improvement.

References:

* Oracle Database SQL Tuning Guide: Managing Optimizer Statistics

* Oracle Database SQL Tuning Guide: Using Indexes and Clusters

NEW QUESTION # 35

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

Answer: C,E

Explanation:

A high buffer cache hit ratio typically indicates that the database is effectively using the buffer cache and does not often need to read data from disk. However, this metric alone is not a reliable indicator of the I/O performance of the database for several reasons:

- * Full table scans and fast full index scans (A) can bypass the buffer cache by design if the blocks are not deemed reusable shortly, which can impact the cache hit ratio.
- * A high cache hit ratio (B) can be misleading if the database performance is poor due to other factors, such as inefficient queries or contention issues.
- * The buffer cache advisory (C) is a more valuable tool for understanding the potential impact of different cache sizes on the database's I/O performance. It simulates scenarios with different cache sizes and provides a more targeted recommendation.
- * The RECYCLE and KEEP buffer caches (D) are specialized caches designed for certain scenarios.

While high hit ratios can be beneficial, they are not universally required; some workloads might not be significantly impacted by lower hit ratios in these caches.

- * A lower cache hit ratio (E) does not necessarily mean poor I/O performance. In some cases, a system with a well-designed storage subsystem and efficient queries might perform well even with a lower cache hit ratio.

References

- * Oracle Database 19c Performance Tuning Guide - Buffer Cache Hit Ratio
- * Oracle Database 19c Performance Tuning Guide - v\$db_cache_advice

NEW QUESTION # 36

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

Answer: C

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 # 37

Which three types of statistics are captured by statspack with snap level 6?

- A. Plan usage data
- B. Parent and child latches
- **C. Enqueue statistics**
- **D. Segment-level statistics**
- **E. Parent and child latches**
- F. Optimizer execution plans

Answer: C,D,E

Explanation:

Statspack is a performance diagnostic tool provided by Oracle prior to the introduction of the Automatic Workload Repository (AWR). At snap level 6, Statspack captures the following types of statistics:

- * A (Correct): Parent and child latches are captured. Latch statistics provide information about contention for latches, which are low-level serialization mechanisms used by Oracle.
- * E (Correct): Enqueue statistics, which provide information on the waits for locks that manage the concurrency between users.

* F (Correct):Segment-level statistics, which provide detailed information on database segments such as tables, indexes, etc., to identify I/O and contention issues.

* C (Incorrect):While optimizer execution plans are an essential aspect of performance tuning, detailed execution plan capture is not part of the Statspack report at level 6.

* D (Incorrect):Plan usage data refers to how frequently a plan is being used, which is more associated with AWR and not typically captured in Statspack reports.

References:

* Oracle Database Performance Tuning Guide:Using Statspack

NEW QUESTION # 38

Which procedure gathers statistics that are always used in the generation of any execution plan?

- A. DBMS_STATS.GATHER_FIXED_OBJECTS_STATS
- B. DBMS_STATS.GATHER_SYSTEM_STATS
- C. DBMS_STATS.GATHER_DATABASE_STATS
- D. DBMS_STATS.GATHER_DICTIONARY_STATS

Answer: C

Explanation:

The DBMS_STATS.GATHER_DATABASE_STATS procedure is used to gather statistics for all schema objects in the database that do not have up-to-date statistics. These statistics are essential for the optimizer to make informed decisions about the most efficient way to execute a query. The procedure collects statistics such as table and column statistics, index statistics, and system statistics, which are all used in the execution plan generation.

References:

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

* Oracle Database Performance Tuning Guide, 19c

NEW QUESTION # 39

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