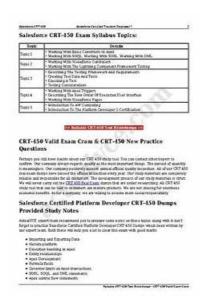
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# Oracle Database 19c Performance and Tuning Management Sample Questions (Q32-Q37):

# **NEW QUESTION #32**

A Standard Edition production database has performance problems for two hours on the same day each week. Which tool must you use to diagnose the problem?

- A. Statspack report
- B. Database Replay
- C. SQL Performance Analyzer
- D. AWR Compare Periods report

#### Answer: A

#### Explanation:

For a Standard Edition production database, the Statspack tool is available to diagnose performance problems. The Automatic Workload Repository (AWR) and its related tools like AWR Compare Periods report and SQL Performance Analyzer are features of the Oracle Database Enterprise Edition and are not available in Standard Edition. Database Replay is also a feature of the Enterprise Edition. Statspack is a performance diagnostic tool provided for earlier versions and Standard Editions of the Oracle Database to collect, store, and analyze performance data.

References

\* Oracle Database 19c Administrator's Guide - Using Statspack to Diagnose Database Performance Issues

#### **NEW QUESTION #33**

You are informed that the RMAN session that is performing the database duplication is much slower than usual. You want to know the approximate time when the rman operation will be completed.

Which view has this information?

- A. V\$RMAN\_BACKUP\_JOB\_DETAILS
- B. V\$SESSTAT
- C. V\$SESSION LONGOPS
- D. V\$SESSION

#### Answer: C

# Explanation:

In Oracle Database, the V\$SESSION\_LONGOPS view provides insights into various operations within the database that are expected to take more than six seconds to complete. These include operations related to RMAN (Recovery Manager), such as database duplication tasks. This view displays information about the progress of these long-running operations, including the start time, elapsed time, and estimated time to completion.

When an RMAN session is performing a database duplication and is observed to be slower than usual, checking the V\$SESSION\_LONGOPS view can give an approximation of when the RMAN operation might complete. This view includes fields like TIME\_REMAINING and ELAPSED\_SECONDS that help in estimating the completion time of the operation based on its current progress.

References:

- \* Oracle Database Reference: V\$SESSION LONGOPS
- \* Oracle Database Backup and Recovery User's Guide: Monitoring RMAN Jobs

# **NEW QUESTION #34**

A database supporting a mixed workload is hosted on a server with 64 CPUs.

A large number of free buffer waits and buffer busy waits occur affecting performance.

The buffer cache size was then increased but after a few hours, the same wait events occur more often than before the change. Examine these parameter settings:



Which two actions can help reduce the number of these waits?

- A. Increasing the size of MEMORYTARGET
- B. increasing the value of DB FILE MULTIBLOCK READ COUNT to 128
- C. reducing the values of DB FILE MULTILOCK READ COUNT to 64
- D. setting dbwr io slaves to 64
- E. increasing the value of DBWRITERPROCESSES to 64,

# Answer: D,E

#### Explanation:

Given a server with 64 CPUs, if the buffer cache size increase did not alleviate free buffer waits and buffer busy waits, one can look into optimizing I/O and the efficiency of the DB writer processes.

C: Setting the DBWR\_IO\_SLAVES parameter to a non-zero value, such as the number of CPUs, would initiate I/O slave processes to assist the DB writer process. This can help reduce I/O contention when writing from the buffer cache to disk, particularly for systems without asynchronous I/O capabilities.

D: Increasing the value of DBWRITERPROCESSES enables multiple DB writer processes to be active simultaneously. In a system with many CPUs, such as 64, increasing this value can improve the write throughput to disk and potentially reduce buffer busy waits. References:

- \* Oracle Database Reference, 19c
- \* Oracle Database Performance Tuning Guide, 19c

#### **NEW QUESTION #35**

SGA\_TARGET and PGA\_AGGREGATE\_TARGET are configured to nonzero values. MEMORY\_target is then set to a nonzero value but memory\_MAX\_TARGET is not set. Which two statements are true?



# Answer: C,D

Explanation:

When MEMORY\_TARGET is set to a nonzero value, Oracle automatically manages the memory allocation between the System Global Area (SGA) and the Program Global Area(PGA). If MEMORY\_MAX\_TARGET is not explicitly set, Oracle will behave in the following manner:

- \* MEMORY\_MAX\_TARGET will default to the value of MEMORY\_TARGET, assuming the platform allows for the value of MEMORY\_TARGET to be increased dynamically. This means that MEMORY\_TARGET represents both the initial allocation and the maximum limit for the dynamically managed memory unless MEMORY\_MAX\_TARGET is specified differently.
- \* If MEMORY\_TARGET is set to a value that is less than the sum of the current values of SGA\_TARGET and PGA\_AGGREGATE\_TARGET, Oracle will use the higher sum as the default value for MEMORY\_MAX\_TARGET to ensure that there is adequate memory for both areas. The database instance will not start if MEMORY\_TARGET is not sufficient to accommodate the combined SGA and PGA requirements.

#### References

- \* Oracle Database Administrator's Guide 19c: Automatic Memory Management
- \* Oracle Database Performance Tuning Guide 19c: Using Automatic Memory Management

# **NEW QUESTION #36**

A database instance is suffering poor I/O performance on two frequently accessed large tables. No Big Table caching occurs in the database.

Examine these parameter settings:

```
PARALLEL_DEGREE_POLICY LIMITED

DB_BIG_TABLE_CACHE_PERCENT_TARGET=10

DB_CACHE_SIZE=500M

DB_KEFE_ACHE_SIZE=0M
```

Which are two actions either one of which will allow Big Table caching to occur?

- A. Setting PARALLEL\_DEGREE\_POLICYAUTO
- B. Increasing DB\_BIG\_TABLE\_CACHE\_PERCENT\_TARGET to at least 25
- C. Setting DB\_KEEP\_CACHE\_SIZE to at least 50M
- D. Increasing DB\_BIG\_TABLE\_CACHE\_PERCENT\_TARGET to at least 50
- E. Setting PARALLEL DEGREE POLICYADAPTIVE
- F. Increasing DB CACHESIZE to 1 G

# Answer: B,F

#### Explanation:

Big Table caching is a feature that allows frequently accessed large tables to be cached in memory to improve I/O performance. From the parameter settings provided, Big Table caching is not occurring because

DB\_BIG\_TABLE\_CACHE\_PERCENT\_TARGET is set to 10, which is the minimum threshold for enabling the feature, but the size of the cache is too small for the big tables to be effectively cached.

To enable Big Table caching, one of the following actions could be taken:

- \* C (Correct): Increasing DB\_BIG\_TABLE\_CACHE\_PERCENT\_TARGET to at least 25. This action would allocate a larger percentage of the buffer cache for storing big tables, which could allow for caching large tables and thus improve I/O performance.
- \* D (Correct): Increasing DB\_CACHE\_SIZE to 1G. Since the size of the buffer cache is a determining factor for how much data can be cached, increasing this parameter would provide more memory space for big tables to be cached.

Options A, B, E, and F will not enable Big Table caching because:

- \* A: Increasing DB\_BIG\_TABLE\_CACHE\_PERCENT\_TARGET to 50 without adjusting the overall size of the cache might still not be sufficient if the DB\_CACHE\_SIZE is not large enough to hold the big tables.
- \* B: Setting DB\_KEEP\_CACHE\_SIZE to at least 50M only specifies a separate buffer pool for objects with the KEEP cache attribute and does not affect Big Table caching.
- \* E: and F: Changing the PARALLEL\_DEGREE\_POLICY to ADAPTIVE or AUTO influences the behavior of parallel execution but does not directly enable or influence Big Table caching.

#### References:

- \* Oracle Database Performance Tuning Guide: Big Table Caching
- \* Oracle Database Reference: DB BIG TABLE CACHE PERCENT TARGET
- \* Oracle Database Reference: DB CACHE SIZE

#### **NEW QUESTION #37**

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