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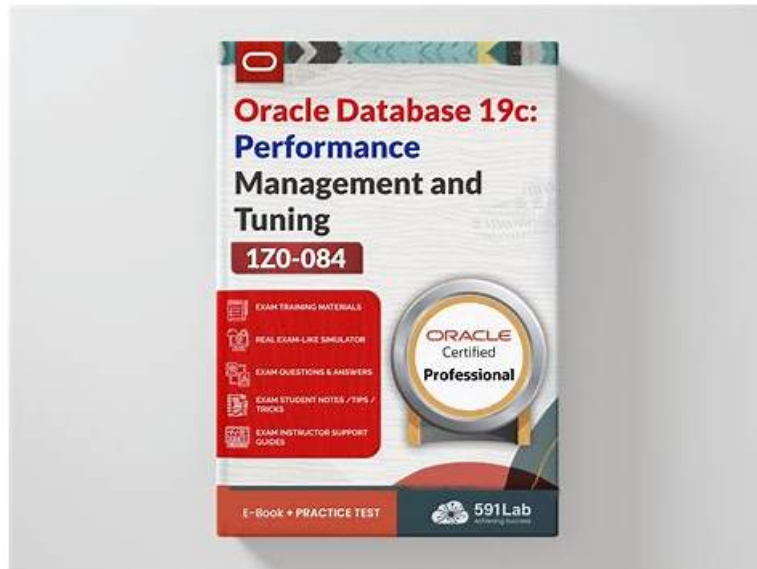
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Oracle Database 19c Performance and Tuning Management Sample Questions (Q46-Q51):

NEW QUESTION # 46
What is the right time to stop tuning an Oracle database?

- A. When the buffer cache and library cache hit ratio is above 95%
- B. When all the concurrency waits are eliminated from the Top 10
- C. When the allocated budget for performance tuning has been exhausted
- D. When the tuning goal has been met

- E. When the I/O is less than 10% of the DB time

Answer: D

Explanation:
The objective of performance tuning in Oracle Database is to meet specific performance goals. These goals may vary based on the requirements of the system and business objectives. Let's evaluate each option in detail to understand why E is correct and others are not.
Option Analysis:
* A. When the allocated budget for performance tuning has been exhausted
* Why it's incorrect:
* Tuning should not stop simply because the budget is exhausted. If performance goals are not met, the database might still experience performance issues, impacting the end-users or business-critical processes. Budget is a constraint, but it shouldn't define when tuning stops.
* B. When all the concurrency waits are eliminated from the Top 10
* Why it's incorrect:
* Concurrency waits (such as locks or latches) are just one aspect of database performance tuning. Eliminating these waits does not necessarily mean the system meets its performance goals. Other factors like query optimization, I/O performance, and CPU usage might still need attention.
* C. When the buffer cache and library cache hit ratio is above 95%
* Why it's incorrect:
* Cache hit ratios are often overemphasized as a performance metric. While a high hit ratio indicates efficient memory usage, it doesn't guarantee optimal performance. A high ratio could still mask inefficient SQL queries, suboptimal execution plans, or other bottlenecks.
* D. When the I/O is less than 10% of the DB time
* Why it's incorrect:
* While reducing I/O is beneficial, it is not always a sufficient indicator that tuning can stop.
Certain workloads may inherently have high or low I/O percentages. The real question is whether the database is meeting its required service levels, not just reducing I/O.
* E. When the tuning goal has been met
* Why it's correct:
* The purpose of performance tuning is to meet the specific performance goals set by the business or the database administrators. Once the database meets these goals (e.g., query response times, throughput requirements, or SLA commitments), tuning can stop. This ensures effort is focused on achieving measurable outcomes, rather than chasing arbitrary metrics.
The Importance of Defining a Tuning Goal
Performance tuning should be driven by clear goals such as:
* Reducing response time for specific critical queries.
* Meeting SLAs for application performance.
* Supporting a target number of concurrent users.
* Reducing resource contention for improved scalability.
Tuning should stop once these goals are achieved because continuous tuning without purpose can lead to unnecessary complexity and resource usage.
Reference to Oracle Documentation:
* Oracle Database 19c Performance Tuning Guide:
* Section: Establishing Performance Goals and Metrics.
* Discussion on focusing tuning efforts on business requirements and goals.
* Oracle Database Concepts Guide:
* Best practices for balancing performance improvements with system complexity.

NEW QUESTION # 47
You need to collect and aggregate statistics for the ACCTG service and PAYROLL module, and execute:

```
BEGIN
  DBMS_MONITOR.SERV_MOD_ACT_STAT_ENABLE(
    service_name  => 'ACCTG',
    module_name   => 'PAYROLL' );
END;
```

Where do you find the output of this command?

- A. In $ORACLE_BASE/diag/rdbms/<db unique name>/<instance name>/trace
- B. By viewing V$SERVICE_STATS

- C. In the current working directory
- D. By viewing V$SERV_MOD_ACT_STATS

Answer: D

Explanation:
When you enable statistics gathering for a specific service and module using
DBMS_MONITOR.SERV_MOD_ACT_STAT_ENABLE, the output is aggregated and can be viewed using
theV$SERV_MOD_ACT_STATSdynamic performance view. This view contains the cumulative statistics of database activity
broken down by service and module, which is exactly what you collect when executing the provided command.
* B (Incorrect):While many types of trace files are located in the Diagnostic Destination directory (
$ORACLE_BASE/diag), the aggregated statistics for services and modules are not written to trace files but are instead viewable
through dynamic performance views.
* C (Incorrect):TheV$SERVICE_STATSview provides service-level statistics but does not provide the
* combined service/module-level breakdown.
* D (Incorrect):The output of the PL/SQL block is not written to a file in the current working directory; it is stored in the data
dictionary and accessible via dynamic performance views.
References:
* Oracle Database PL/SQL Packages and Types Reference:DBMS_MONITOR
* Oracle Database Reference:V$SERV_MOD_ACT_STATS

NEW QUESTION # 48
Which two statements are true about space usage in temporary tablespaces?

- A. Lack of temporary tablespace space for sort operations can be prevented by using temporary tablespace groups.
- B. When a session consumes all temporary tablespace storage, then the session would hang until the temporary space used by that session is cleared.
- C. When a global temporary table instantiation is too large to fit in memory, space is allocated in a temporary tablespace.
- D. A sort will fail if a sort to disk requires more disk space and no additional extent can be found/allocated in/for the sort segment.
- E. Temporary tablespaces setting Includes quotas to limit temporary space used by a session for that Temporary tablespace.

Answer: A,C

Explanation:
Regarding space usage in temporary tablespaces, the following statements are true:
* A (Correct):When a global temporary table or a sort operation exceeds the available memory, Oracle Database allocates space in
a temporary tablespace to store the temporary data or intermediate results.
* E (Correct):Using temporary tablespace groups can prevent insufficient temporary tablespace for sort operations by providing a
collective pool of space from multiple temporary tablespaces, which can be used for user sorting operations.
The other options provided have inaccuracies:
* B (Incorrect):Oracle does not provide a mechanism for setting quotas on temporary tablespaces. Quotas can be set for permanent
tablespaces but not for temporary ones.
* C (Incorrect):A sort operation may fail due to insufficient space, but Oracle will attempt to allocate space in the temporary
tablespace dynamically. If no space can be allocated, an error is returned rather than a sort failure.
* D (Incorrect):If a session consumes all available temporary tablespace storage, Oracle will not hang the session; it will return an
error to the session indicating that it has run out of temporary space.
References:
* Oracle Database Administrator's Guide:Managing Space for Schema Objects
* Oracle Database Concepts:Temporary Tablespaces

NEW QUESTION # 49
Which two statements are true about cursor sharing?

- A. Adaptive Cursor Sharing guarantees that a suboptimal plan will never be used on any execution of a SQL statement.
- B. 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.
- 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 cursor_sharing to EXACT prevents Adaptive Cursor Sharing from being used.
- E. Setting optimizer_capture_sql_plan_baselines to TRUE loads all adaptive plans for the same statement into the cursor cache.

Answer: C,D

Explanation:
A: WhenCursor_sharingis set toFORCE, 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: Settingcursor_sharingtoEXACTensures 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. WithEXACT, 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 # 50
Examine this statement and output:

```
SQL> BEGIN dbms_workload_capture.start_capture('CAPTURE-ORACLE_TEST', 'TEST', NULL,
'INCLUDE', FALSE); END;

ERROR at line 1:
ORA-15505: cannot start workload capture because instance 1 encountered errors
while accessing directory "/TEST"
ORA-06512: at "SYS.DBMS_WORKLOAD_CAPTURE", line 799
ORA-06512: at line 1
```

Which two situations can trigger this error?

- A. There is a file in the capture directory.
- B. The user lacks the required privileges to execute the DBMS WORKLOAD CAPTURE package or the directory.
- C. The instance is unable to access the capture directory.
- D. The syntax is incomplete.
- E. The capture directory is part of the root file system.

Answer: B,C

Explanation:
The ORA-15505 error indicates that the instance encountered errors while trying to access the specified directory. This could be due to:
A: Insufficient privileges: The user attempting to start the workload capture might not have the required permissions to execute the DBMS_WORKLOAD_CAPTURE package or to read/write to the directory specified.
E: Accessibility: The database instance may not be able to access the directory due to issues such as incorrect directory path, directory does not exist, permission issues at the OS level, or the directory being on a file system that's not accessible to the database instance.
References:
* Oracle Database Error Messages, 19c
* Oracle Database Administrator's Guide, 19c

NEW QUESTION # 51
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