

1Z0-117^{Q&As}

Oracle Database 11g Release 2: SQL Tuning Exam

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QUESTION 1

You want to run SQL Tuning Advisor statements that are not captured by ADDM, AWR, and are not in the library cache. What is the prerequisite?

- A. Enable SQL plan management
- B. Create a SQL plan baseline for each query
- C. Create a SQL Tuning Set (STS) containing the SQL statements
- D. Gather statistics for objects used in the application

Correct Answer: C

You can use an STS as input to SQL Tuning Advisor, which performs automatic tuning of the SQL statements based on other user-specified input parameters.

Note:

A SQL tuning set (STS) is a database object that includes one or more SQL statements along with their execution statistics and execution context, and could

include a user priority ranking. You can load SQL statements into a SQL tuning set from different SQL sources, such as AWR, the shared SQL area, or

customized SQL provided by the user. An STS includes:

A set of SQL statements

Associated execution context, such as user schema, application module name and action, list of bind values, and the cursor compilation environment

Associated basic execution statistics, such as elapsed time, CPU time, buffer gets, disk reads, rows processed, cursor fetches, the number of executions, the

number of complete executions, optimizer cost, and the command type Associated execution plans and row source statistics for each SQL statement (optional). Reference: Oracle Database Performance Tuning Guide, Managing SQL Tuning Sets

QUESTION 2

An application accessing your database got the following error in response to SQL query:

ORA-12827: insufficient parallel query slaves available

View the parallel parameters for your instance:

NAME	TYPE	VALUE
fast_start_parallel_rollback	string	LOW
parallel_adaptive_multi_tuning	boolean	TRUE
parallel_automatic_tuning	boolean	FALSE
parallel_degree_limit	string	32
parallel_degree_policy	string	LIMITED
parallel_execution_message_size	integer	16384
parallel_force_local	boolean	FALSE
parallel_io_cap_enabled	boolean	FALSE
parallel_max_servers	integer	128
parallel_min_servers	integer	50
parallel_server	Integer	0
parallel_server_instances	string	AUTO
parallel_server	boolean	1
parallel_servers_target	integer	8
parallel_threads_servers_per_cpu	integer	2

No hints are used and the session use default parallel settings.

What four changes could you make to help avoid the error and ensure that the query executes in parallel?

- A. Set PARELLEL_DEGREE_POLICY to AUTO.
- B. Increase the value of PARELLEL_MAX_SERVERS.
- C. Increase PARELLEL_SERVERS_TARGET.
- D. Decrease PARELLEL_MIN_PERCENT.
- E. Increase PARELLEL_MIN_SERVERS.
- F. Decrease PARELLEL_MIN_TIME_THRESHOLD.
- G. Increase PARELLEL__MIN_TIME_THRESHOLD.

Correct Answer: ACDG

C: PARALLEL_SERVERS_TARGET specifies the number of parallel server processes allowed to run parallel statements before statement queuing will be used. When the parameter PARALLEL_DEGREE_POLICY is set to AUTO, Oracle will queue SQL statements that require parallel execution, if the necessary parallel server processes are not available. Statement queuing will begin once the number of parallel server processes active on the system is equal to or greater than PARALLEL_SERVER_TARGET.

By default, PARALLEL_SERVER_TARGET is set lower than the maximum number of parallel server processes allowed on the system (PARALLEL_MAX_SERVERS) to ensure each parallel statement will get all of the parallel server resources required and to prevent overloading the system with parallel server processes.

D: Note: ORA-12827: insufficient parallel query slaves available Cause: PARALLEL_MIN_PERCENT parameter was specified and fewer than minimum slaves were acquired Action: either re-execute query with lower

PARALLEL_MIN_PERCENT or wait until some running queries are completed, thus freeing up slaves

A, G: PARALLEL_MIN_TIME_THRESHOLD specifies the minimum execution time a statement should have before the statement is considered for automatic degree of parallelism. By default, this is set to 30 seconds. Automatic degree of parallelism is only enabled if PARALLEL_DEGREE_POLICY is set to AUTO or LIMITED.

QUESTION 3

You are administering a database that supports a DSS workload, where in an application a set of queries use the query rewrite on materialized views. You notice that these queries are performing poorly.

Which two actions can you make to improve the performance of these queries?

- A. Use DBMS_MVIEW.EXPLAIN_REWRITE to analyze whether the queries are rewritten.
- B. USE DBMS_ADVISOR.QUICK_TUNE to analyze the query rewrite usage of materialized views for the entire workload.
- C. Create an STS for all the queries and use SQL performance Analyzer to generate recommendations for determining the regressed SQL statements.
- D. Create an STS for all the queries in the application and use the SQL Tuning Advisor to generate recommendations.
- E. Create an STS for all the queries in the application and use the SQL Access Advisor to generate a recommendation for optimizing materialized views for maximum query rewrite usage and fast refresh.

Correct Answer: DE

http://docs.oracle.com/cd/E11882_01/server.112/e41573/advisor.htm#PFGRF94911

QUESTION 4

Which three factors does the estimator depend on for overall cost estimation of a given execution plan?

- A. Cardinality
- B. Sort area size
- C. OPTIMIZER_FEATURE_ENABLE parameter
- D. NOT NULL_FEATURE_ENABLE parameter
- E. NOT NULL constraint on a unique key column
- F. Library cache size
- G. The units of work such as disk input/output, CPU usage, and memory used in an operation

Correct Answer: ACG

C: OPTIMIZER_FEATURES_ENABLE acts as an umbrella parameter for enabling a series of optimizer features based on an Oracle release number.

Note: The estimator determines the overall cost of a given execution plan. The estimator generates three different types of measures to achieve this goal:

*

Selectivity

This measure represents a fraction of rows from a row set. The selectivity is tied to a query predicate, such as `last_name=\\'Smith\\'`, or a combination of predicates.

*

Cardinality

This measure represents the number of rows in a row set. 1,

*

Cost

This measure represents units of work or resource used. The query optimizer uses disk I/O, CPU usage, and memory usage as units of work.

If statistics are available, then the estimator uses them to compute the measures. The statistics improve the degree of accuracy of the measures.

QUESTION 5

Your instance has these parameter settings:

```
PARALLEL_DEGREE_POLICY=AUTO
PARALLEL_SERVERS_TARGET=64
PARALLEL_MIN_PERCENT=25
PARALLEL_MAX_SERVERS=128
PARALLEL_MIN_SERVERS=0
PARALLEL_MIN_TIME_THRESHOLD=10
PARALLEL_DEGREE_LIMIT=8
```

Which three statements are true about these settings if no hints are used in a SQL statement?

- A. A statement estimated for more than 10 seconds always has its degree of parallelism computed automatically.
- B. A statement with a computed degree of parallelism greater than 8 will be queued for a maximum of 10 seconds.
- C. A statement that executes for more than 10 seconds always has its degree of parallelism computed automatically.
- D. A statement with a computed degree of parallelism greater than 8 will raise an error.
- E. A statement with any computed degree of parallelism will be queued if the number of busy parallel execution processes exceeds 64.
- F. A statement with a computed degree of parallelism of 20 will be queued if the number of available parallel execution processes is less than 5.

Correct Answer: CEF

C (not A): PARALLEL_MIN_TIME_THRESHOLD specifies the minimum execution time a statement should have before the statement is considered for automatic degree of parallelism. By default, this is set to 30 seconds. Automatic degree of parallelism is only enabled if PARALLEL_DEGREE_POLICY is set to AUTO or LIMITED.

: PARALLEL_DEGREE_LIMIT integer

A numeric value for this parameter specifies the maximum degree of parallelism the optimizer can choose for a SQL statement when automatic degree of parallelism is active. Automatic degree of parallelism is only enabled if PARALLEL_DEGREE_POLICY is set to AUTO or LIMITED.

E: PARALLEL_SERVERS_TARGET specifies the number of parallel server processes allowed to run parallel statements before statement queuing will be used. When the parameter PARALLEL_DEGREE_POLICY is set to AUTO, Oracle will queue SQL statements that require parallel execution, if the necessary parallel server processes are not available. Statement queuing will begin once the number of parallel server processes active on the system is equal to or greater than PARALLEL_SERVER_TARGET.

F: PARALELL_MIN_MINPERCENT

PARALLEL_MIN_PERCENT operates in conjunction with PARALLEL_MAX_SERVERS and PARALLEL_MIN_SERVERS. It lets you specify the minimum percentage of parallel execution processes (of the value of PARALLEL_MAX_SERVERS) required for parallel execution. Setting this parameter ensures that parallel operations will not execute sequentially unless adequate resources are available. The default value of 0 means that no minimum percentage of processes has been set.

Consider the following settings: PARALLEL_MIN_PERCENT = 50 PARALLEL_MIN_SERVERS = 5
PARALLEL_MAX_SERVERS = 10

If 8 of the 10 parallel execution processes are busy, only 2 processes are available. If you then request a query with a degree of parallelism of 8, the minimum 50% will not be met.

Note: With automatic degree of parallelism, Oracle automatically decides whether or not a statement should execute in parallel and what degree of parallelism the statement should use. The optimizer automatically determines the degree of parallelism for a statement based on the resource requirements of the statement.

However, the optimizer will limit the degree of parallelism used to ensure parallel server processes do not flood the system. This limit is enforced by PARALLEL_DEGREE_LIMIT.

Values:

CPU

IO

integer

A numeric value for this parameter specifies the maximum degree of parallelism the optimizer can choose for a SQL statement when automatic degree of parallelism is active. Automatic degree of parallelism is only enabled if PARALLEL_DEGREE_POLICY is set to AUTO or LIMITED.

Reference: PARALLEL_MIN_TIME_THRESHOLD PARALLEL_DEGREE_LIMIT PARALELL_MIN_MINPERCENT
PARALELL_SERVERS_TARGET