

Exam Questions 1Z0-417

Database Performance and Tuning Essentials 2015

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NEW QUESTION 1

Which three are benefits of implementing an Oracle Database Performance and Tuning solution?

- A. automated database diagnostics based on deep database kernel integration
- B. a library of hundreds of PL/SQL procedures to choose from for writing scripts to instrument the database to collect performance information
- C. monitor and alert on every Oracle Database Database Dictionary view using SNMP MIBS built into the Optimizer
- D. the most extensive and up-to-date collection of database monitoring and tuning scripts
- E. built-in instrumentation, real-time and historical monitoring, and data collection
- F. a performance methodology

Answer: DEF

NEW QUESTION 2

Which are two strategies to maintain performance and improve a table segment's compression ratio when you are using Advanced Row Compression on a table segment?

- A. Use smaller database block size.
- B. Use larger database block size.
- C. Use direct-path inserts where possible.
- D. Increase PCTFREE on the table segment.
- E. Increase the size of the tablespace.

Answer: AE

NEW QUESTION 3

For which two capabilities would you implement Segment Advisor in order to aid a customer trying to find and fix performance issues related to database space?

- A. to determine if objects have unused space that can be released
- B. to advise if materialized views can be used to reduce size of views
- C. to review space usage of individual schema objects or tablespaces
- D. to advise if there are any duplicate indexes and automate their removal
- E. to identify any fragmentation in the database cache or swap space

Answer: AC

NEW QUESTION 4

Which four use cases could Database Replay be used to test for database performance changes?

- A. a change in operating system versions
- B. compare Flashback workload
- C. check a workload from a single instance on an Oracle RAC database
- D. check a workload after database parameters have been changed
- E. check a workload from one database release on another database released
- F. upgrade an application

Answer: BCDE

NEW QUESTION 5

Which are two characteristics of “invisible” index functionality that would help tune a database having thousands of legacy indexes?

- A. An invisible index is ignored by the optimizer.
- B. After an index becomes invisible, it is no longer maintained during inserts and updates.
- C. I/O bottlenecks are easy to spot when invisible indexes are used.
- D. An index only needs to be rebuilt for it to be visible again.
- E. The session or system parameter needs to be changed to OPTIMIZER_USE_INVISIBLE_INDEXES to TRUE for an invisible index to become visible to the Optimizer.

Answer: AE

NEW QUESTION 6

Which is a prerequisite for using an Oracle Database Performance and Tuning solution?

- A. Linux Operating system
- B. 8 GB of memory
- C. Oracle Database Enterprise Edition
- D. Oracle Enterprise Manager
- E. deep knowledge of Oracle Storage subsystems

Answer: C

NEW QUESTION 7

When reviewing a customer's database configuration, you find that OPTIMIZER_USE_SQL_PLAN_BASELINES is set as TRUE. What does the Optimizer do?

- A. compares plans that it develops with accepted plans in baselines
- B. develops plans and adds them to baselines as verified

- C. doesn't develop an execution plan, but uses an accepted plan from baselines
- D. doesn't develop an execution plan, but uses enabled plans in the baseline

Answer: B

NEW QUESTION 8

Select two scenarios that an Oracle Database Performance and Tuning solution implementation addresses.

- A. After migration off a legacy system, an ERP team complains that they have no ability to isolate performance problems in the new distributed Oracle Database architecture.
- B. An HR Team claims that it can hire staff fast enough to meet business demands.
- C. Development Team members demand that their SQL should run fast while the DBAs blame SQL as the root of performance issues.
- D. To prepare for an upcoming code audit, developers need to review their SQL and PL/SQL code for syntax and runtime errors.
- E. Systems and Storage teams report that over the past 12 months, it is taking 40% longer time to back up these servers with Oracle databases on them.

Answer: BC

NEW QUESTION 9

Upon implementation completion, which three should be reviewed with a customer to confirm the values or benefits of a Oracle Database Performance and Tuning solution?

- A. real-time and historical monitoring capabilities
- B. non-intrusive metric collections
- C. statspack integration and support
- D. integration with Enterprise Manager
- E. included scripts for querying X\$ and V\$ views
- F. SQL script code management capabilities

Answer: ABD

NEW QUESTION 10

What are three activities an Oracle Database Performance and Tuning solution enables a customer to perform?

- A. standardize database troubleshooting and diagnostics
- B. control database clouds.
- C. automate database performance management
- D. perform global database backup
- E. outsource database operations
- F. replay and test actual workloads to assure database performance and consolidations.

Answer: CDE

NEW QUESTION 10

SQL Access Advisor takes database workload as input and recommends adding various access structures. Which three does it consider the impact of adding when it generates recommendations?

- A. Materialized views
- B. Indexes
- C. Partitions
- D. Tablespaces
- E. V\$ performance views
- F. Hints

Answer: BDE

NEW QUESTION 11

Which is used to preserve SQL execution plans of existing statements when moving from one version of the database to another?

- A. SQLHints
- B. Stored Outlines
- C. Stored Profiles
- D. SQL Plan Management
- E. SQL Profiles

Answer: C

Explanation: SQL statement, or migrate an existing stored outline by loading the "outlined" plan as a fixed plan.
Reference: https://docs.oracle.com/cd/E18283_01/server.112/e16638/optplanmgmt.htm

NEW QUESTION 14

Which two are functionalities of Oracle Real Application Testing?

- A. Database Replay
- B. SQL Query Sets (SQS)
- C. SQL Tuning Analyzer
- D. SQL Performance Analyzer (SPA)

E. Real Application Cluster Replay

Answer: AE

NEW QUESTION 15

Which are three practices that developers can use to enhance performance, scalability, and availability of Oracle Database-driven applications?

- A. Implement primary and foreign keys, enforce database integrity, joins, message queuing, maintenance of sequences outside of the database.
- B. Use Big Data to hold everything into one big table.
- C. Maintain and analyze performance statistics using AWR and ADDM.
- D. Eliminate hot spots in applications, monitor, measure, and optimize SQL statement execution.
- E. Perform testing with Real Application Testing.

Answer: ACE

NEW QUESTION 20

Which option do customers need to license in order to implement SQL Performance Analyzer and Database Replay functionalities?

- A. Oracle Database Diagnostics Pack for Oracle Database
- B. Oracle Database Replay and Testing Suite
- C. Oracle SQL Developer
- D. Oracle Real Application Testing
- E. Oracle SQL Tuning Pack for Oracle Database

Answer: D

Explanation: Reference: https://docs.oracle.com/cd/B19306_01/license.102/b14199/options.htm

NEW QUESTION 24

Which three are SQL Performance Analyzer capabilities that enable forecasting impact of system changes on a SQL workload?

- A. measuring performance before and after the change
- B. generating a list of SQL Hints that the Optimizer will use to improve overall performance
- C. identifying the SQL statements that regressed or improved
- D. providing tuning recommendations for each SQL statement that is regressed
- E. measuring performance and comparing to industry benchmarks (TPC-C, TPC-D)
- F. measuring a change in user session logins

Answer: ACE

NEW QUESTION 25

When providing partition and index recommendations, which one would SQL Access Advisor source input from?

- A. SQL Tuning Advisor
- B. Automatic Workload Repository
- C. Automatic Database Diagnostic Monitor
- D. SQL Tuning Set

Answer: D

NEW QUESTION 27

Which background process performs Automatic Workload Repository (AWR) tasks such as writing when a metric violates its threshold value, taking snapshots, and capturing statistics for recently modified SQL objects?

- A. LGWR
- B. DBWR
- C. CKPT
- D. MMON
- E. MMNL

Answer: D

Explanation: The manageability monitor process (MMON) performs many tasks related to the Automatic Workload Repository (AWR). For example, MMON writes when a metric violates its threshold value, taking snapshots, and capturing statistics value for recently modified SQL objects.

Reference:

https://docs.oracle.com/cd/E11882_01/server.112/e40540/process.htm#CNCPT008

NEW QUESTION 29

In which two formats does Automatic Workload Repository (AWR) provide statistics?

- A. Persistent
- B. Temporary
- C. Unlimited
- D. Basic

E. Full

Answer: AB

Explanation: Reference: <https://talebzadehmich.wordpress.com/2012/05/05/automated-workload-repository-awrperformance-monitoring-tool-basics/>

NEW QUESTION 33

Which option is recommended when gathering Optimizer system statistics on a regular basis to ensure optimal performance?

- A. lock out user sessions and gather system statistics overnight
- B. gather system statistics after a performance issue has been reported
- C. gather system statistics for several hours when there is no workload
- D. gather system statistics for several hours during normal workload periods
- E. shut down any running applications prior to collection

Answer: D

Explanation: Reference: https://docs.oracle.com/database/121/TGSQL/tgsql_stats.htm#TGSQL398

NEW QUESTION 36

Which statement about Oracle Enterprise Manager Database Express is correct?

- A. Oracle Enterprise Manager Database Control must be configured first.
- B. The listener needs to be running for it to be accessed.
- C. A Oracle Enterprise Manager Database Express WebLogic Server must be configured first.
- D. Oracle Internet Application Server needs to be installed to use it.
- E. Oracle Enterprise Manager Database Express can be used only from a command-line.

Answer: A

Explanation: Reference: http://www.oracle.com/webfolder/technetwork/tutorials/obe/db/11g/r2/2day_dba/gettingstarted/gettingstarted.htm

NEW QUESTION 38

Which are two kinds of statistics collected and processed by the Automatic Workload Repository (AWR) you would utilize when tuning an Oracle Database instance?

- A. Wait Event statistics
- B. Session and System statistics
- C. User privileges statistics
- D. Standby Database throughput statistics
- E. Interconnect statistics

Answer: AD

Explanation: Reference: https://docs.oracle.com/cd/E11882_01/server.112/e41573/autostat.htm#PFGRF027

NEW QUESTION 39

Which are three use cases in which SQL Performance Analyzer can be used?

- A. find and flashback explain plan anomalies
- B. simulate Exadata on existing hardware
- C. forecast impact of a system change on aSQL workload
- D. compare performance of SQL statements before and after a change
- E. debug SQL code syntax before and after a change
- F. JSQL Heap Memory overflow testing

Answer: BCE

NEW QUESTION 43

DBAs use scripts and a third-party tool that access Automatic Workload Repository (AWR) snapshot reports, but don't use Oracle Enterprise Manager. The IT Manager seeks to confirm what the DBAs told him – Its OK since they licensed Oracle Database Enterprise Edition and not the Standard Edition. Which is the correct response for this scenario?

- A. With an Oracle Enterprise Edition Database license, a customer can use any Oracle option they want, at any of their worldwide locations, without additional licensing.
- B. No matter how AWR snapshot reports are accessed, Oracle Enterprise Edition Database customers need to be licensed for the Oracle Diagnostic Pack for Oracle Databases.
- C. With an Oracle Database Enterprise Edition license, an Oracle customer can use any Oracle option they want, at that location, without additional licensing.
- D. No matter how AWR snapshot reports are accessed, Oracle Enterprise Edition Database customers need to be licensed for the Advanced Analytic Pack for Oracle Databases.
- E. With an Oracle Database Enterprise Edition license, an Oracle customer can access AWR snapshots by using SQL.
- F. If you use anything else, then you need an additional license.

Answer: C

NEW QUESTION 48

At the IT Manager request, you are reviewing the databases that the DBA has implemented. You find STATISTICS_LEVEL configured as BASIC. What finding do you report back to the IT Manager?

- A. The configuration of their databases is set up to also provide timed Operating System statistics and plan execution statistics.
- B. The configuration of their databases is incorrect and should be set to NOT_TYPICAL.
- C. The configuration of their databases has disabled collection of important statistics required for Oracle Database functionality.
- D. The configuration of their databases needs to be set to ALL to enable collection of Operating System, Middleware, and storage statistics.

Answer: C

NEW QUESTION 53

What are three reasons an implementation of an Oracle Database Performance and Tuning solution is superior to that of scripts or third-party tools?

- A. It is a part of the database, which means no added installations, configurations, extra user accounts, privilege granting, etc.
- B. It eliminates the need to reverify compatibility, upgrade third-party tools, or rewrite scripts after a patch or database upgrade.
- C. It has the largest library of custom scripts and procedures and includes an assembly builder to maintain them and add more.
- D. Results come from the Oracle Database Optimizer and not rules or heuristics trying to predict what the optimizer may do.
- E. It is the most inexpensive tool in the market.

Answer: BDE

NEW QUESTION 57

An Oracle Database customer's VP of Development mentions that they've moved to AGILE development methodology and DevOps requires an ability to view, test, or validate performance in their own development environment. Which two do you implement?

- A. Oracle Application Infrastructure Tester
- B. Oracle Application Testing Suite
- C. SQL Developer
- D. Oracle Real Application Testing
- E. APEX and SQL Developer
- F. Oracle Testing Pack

Answer: BD

NEW QUESTION 59

Starting with Oracle Database 11gR2, which are two additional partitioning capabilities that aid Oracle Database Performance and Tuning?

- A. Hash Partitioning
- B. Reference Partitioning
- C. Composite Partitioning
- D. Interval Partitioning
- E. Disk Partitioning

Answer: CD

NEW QUESTION 62

To use Automatic Database Diagnostic Management capability on a database using a SQL script, command line, database views, or from a GUI, which option needs to be licensed?

- A. Oracle Diagnostics Pack for Oracle Databases
- B. Oracle Tuning Pack for Oracle Databases
- C. Oracle Diagnostics and Tuning Pack for Oracle Databases
- D. Oracle ADDM Pack
- E. Nothing else needs to be licensed.

Answer: C

NEW QUESTION 65

An advanced fault diagnostic infrastructure introduced as of Oracle Database 11g, assigns an incident number and diagnostic data when a critical error occurs. What is the feature and where does it store that data?

- A. Oracle Enterprise Manage
- B. Data is stored in the OEM Repository.
- C. MyOracle Support
- D. Data is stored in Oracle Cloud.
- E. Automatic Workload Repositor
- F. Data is stored in views inside the Oracle database.
- G. Automatic Diagnostic Repositor
- H. Data is stored in views inside the Oracle database.
- I. Automatic Diagnostic Repositor
- J. Data is stored in a file-based repository outside the database.

Answer: E

Explanation: The data is then stored in the Automatic Diagnostic Repository (ADR) — a file-based repository outside the database
Reference: https://docs.oracle.com/cd/B28359_01/server.111/b28310/diag001.htm

NEW QUESTION 69

A customer seeks capability to measure and test database performance before and after application changes. Which would you implement to meet that requirement?

- A. Oracle Performance Analyzer
- B. Oracle Application Performance Analyzer
- C. Oracle Real Application Testing
- D. Oracle SQL Developer
- E. Oracle Spatial and Graph

Answer: E

NEW QUESTION 70

DBAs are spending an enormous amount of time trying to identify and fix SQL statements they are suspect have regressed as a result of system changes not documented by the Operations Team. What would you implement to resolve this problem?

- A. Complete Oracle Enterprise Manager suite
- B. SQL Performance Analyzer which helps predict and prevent SQL execution performance problems caused by environment changes
- C. SQL Plan Manager which uses system histograms to extrapolate future SQL execution performance
- D. Oracle Database Backup & Recovery
- E. Oracle SQL Developer, which helps develop and test the SQL prior to putting it into production

Answer: B

NEW QUESTION 72

Which three are controllable by a resource plan, when you are using the Oracle Database 12c Multitenant option?

- A. CPU
- B. concurrent sessions
- C. SGA
- D. network I/O
- E. ability to use parallel server processes
- F. use of SGA memory and ability to allocate PGA

Answer: ABE

Explanation: Section: (none) Explanation

NEW QUESTION 75

Which two could Oracle Database Replay be used to validate performance?

- A. applying workload to an application after an operating system patch
- B. applying a workload from one database release to another database release
- C. moving a workload from a single database instance and applying it to an Oracle Real Application Cluster(RAC)
- D. to check and compare if a specific set of SQL statements have regressed between two different database releases
- E. to find the least-used SQL statement

Answer: AC

NEW QUESTION 79

Which option would you use to validate performance when migrating an Oracle Database from HP-UX Itanium to Oracle Linux 6 architecture?

- A. Oracle Diagnostic Pack for Database
- B. Real Application Testing
- C. Oracle Migration Pack for Databases
- D. Oracle Migration Performance Advisor
- E. SQL Performance Testing Suite

Answer: C

NEW QUESTION 82

Which is a capability that Active Session History (ASH) reports enable you to perform?

- A. Compare database performance between two periods of time, and resolve performance degradation that may happen from one time period to another.
- B. Analyze transient performance problems with the database that are short-lived and do not appear in the ADDM analysis.
- C. Optimize the performance of data access paths by creating the proper set of materialized views, materialized view logs, and indexes for a given workload.
- D. Analyze transient performance problems that have happened in the database since it has been started.

Answer: A

NEW QUESTION 83

Identify four problems automatically diagnosed by Automatic Database Diagnostics Monitor (ADDM).

- A. log file sizing
- B. log buffer sizing
- C. log file problematic naming
- D. Mean Time to recover (MTTR) setting
- E. undersized SGA or PGA
- F. oversized SGA or PGA
- G. Less Time to recover (LTTR) setting

Answer: DEFG

NEW QUESTION 84

Upon migration to Oracle Database 12c, a customer asked that monitoring at an individual database level be disabled in favor of database performance monitoring consolidated and centralized across their enterprise.

Which are two actions you would take to meet the customer's requirements?

- A. Disable Oracle Enterprise Manager Database Express by setting the HTTP Port to 0.
- B. For the always active Oracle Enterprise Manager Database Express process, create a script that will disable that process upon database boot.
- C. Using the appropriate architecture implement Oracle Enterprise Manager.
- D. Delete the "express" directory in Oracle Home to disable Oracle Enterprise Manager Database Express.
- E. Changes permissions of the "express" directory to read only by root.
- F. Enable SNMP and configure MIBS on each database and forward database monitoring SNMP traps.

Answer: BE

NEW QUESTION 89

For which one would you use an index fast full scan to improve performance?

- A. a query having all the columns of an index in the where clause
- B. a query that does not need to access table rows
- C. a query that needs to access table rows along with an index
- D. a column in an index that is compressed

Answer: A

Explanation: All of the columns required by SQL must reside in the index tree; that is, all columns in the SELECT and WHERE clauses must exist in the index.

Reference: http://www.dba-oracle.com/t_index_fast_full_scan.htm

NEW QUESTION 92

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