

Oracle

Exam Questions 1Z0-417

Database Performance and Tuning Essentials 2015



NEW QUESTION 1

Which is a true statement about Automatic Database Diagnostic Monitor (ADDM)?

- A. ADDM analyzes information in RMAN.
- B. Automatic Workload Repository (AWR) analyzes information stored in snapshots in tables of ADDM.
- C. ADDM analyzes information stored in snapshots in tables of the Automatic Workload Repository (AWR).
- D. ADDM and AWR are new features of Oracle Database 12c.
- E. APEX is required to access ADDM.

Answer: D

NEW QUESTION 2

Which two statements are true about Oracle Enterprise Manager Database Express?

- A. It uses internal infrastructure components, such as XDB and SQL*NET.
- B. It can perform actions inside and outside the database.
- C. Performance Hub and Composite Active Reports are its key functionalities.
- D. It is not supported on Oracle Standard Edition or Express Edition.
- E. It replaces Oracle Grid Control.

Answer: AC

Explanation: Reference: <http://www.oracle.com/technetwork/database/manageability/emx-intro-1965965.html>

NEW QUESTION 3

Which two statements are true about Automatic Statistics collection by the Optimizer?

- A. Statistics are collected during automatic maintenance tasks.
- B. Any fixed objects are disregarded.
- C. Any external tables are incorporated.
- D. All tables in the data dictionary are included by defaults.
- E. Statistics are gathered after table statistics are marked stale.

Answer: AE

Explanation: Reference: https://docs.oracle.com/cd/B28359_01/server.111/b28274/stats.htm

NEW QUESTION 4

Which one would SQL Access Advisor use as input to provide a recommendation on a partition or index?

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

Answer: A

NEW QUESTION 5

Which is Oracle's architecture and methodology for Oracle Database High Availability (HA)?

- A. High Availability High Accessibility Architecture for Oracle Database
- B. Oracle Real Application Clusters
- C. Maximum Availability Architecture for Oracle Database
- D. Oracle Exadata
- E. Oracle Database 12c

Answer: B

Explanation: Oracle Real Application Clusters (Oracle RAC) is a clustered version of Oracle Database based on a comprehensive high-availability
Reference: <http://www.oracle.com/us/products/database/options/real-application-clusters/overview/index.html>

NEW QUESTION 6

Oracle databases come with a built-in health monitor to run diagnostic checks on components of the database. Which three capabilities can be used to automate reporting?

- A. variety of real-time reports once the Business Intelligence option is installed
- B. reports in response to critical errors
- C. reports with findings and recommendations to resolve problems
- D. reports examining memory and process usage
- E. historical reports after the Database Diagnostic Repository (DDR) is configured
- F. reports examining user and developer SQL programming errors

Answer: BEF

NEW QUESTION 7

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 unusedspace 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 8

Which is a true statement about the difference in the functionality of Active Session History (ASH) and SQL Trace/TKPROF?

- A. ASH provides time based data, SQL Trace/TKPROF does not
- B. ASH provides detailed session level data, SQL Trace/TKPROF does not
- C. ASH is always on, SQL Trace/TKPROF is not
- D. ASH identifies Bind variables that are available, SQL Trace/TKPROF does not
- E. ASH counts and has occurrence data, SQL Trace/TKPROF does not

Answer: B

NEW QUESTION 9

Which option would you use to capture workloads from one or more systems concurrently and then play them back?

- A. Automatic Workload Repository
- B. Enterprise Manager Cloud Control
- C. Consolidated Database Replay
- D. Consolidation Planner
- E. Workload Consolidator and Playback

Answer: C

NEW QUESTION 10

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 10

A customer has database performance issues within their Oracle Real Application Cluster. What is the next step?

- A. Run the V\$RAC script to dump all the RAC statistics and look for what has the highest metric accumulation.
- B. Use the application load testing utility to overload a copy of their application in development to flush out the issue.
- C. Turnoff RAC interconnects to isolate any network issues impacting database performance problems.
- D. Use a third-party RAC tool to identify the bad SQL and then rewrite it.
- E. Utilize the Oracle Database Performance Method to help identify and correct issue.

Answer: E

NEW QUESTION 12

Reviewing Automatic Workload Repository (AWR) reports for CPU and I/O exceptions, the time model displays SQL execution elapsed time as a major component of DB Time. Which two are next steps to diagnose the problem further?

- A. Review Operating System processes for any zombies.
- B. Review SQL statistics from the Automatic Workload Repository (AWR).
- C. Run a STATSPACK report.
- D. Review Automatic Database Diagnostic (ADDM) recommendations.
- E. Review all system configuration parameters.

Answer: CD

NEW QUESTION 17

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 20

When managing multiple database instances on a single server, which initialization parameter limits the number of CPU's that an instance can use simultaneously?

- A. CPU_NUM
- B. NUM_CPU
- C. MAX_CPU
- D. LIMIT_CPU
- E. CPU_COUNT

Answer: E

Explanation: Reference: http://docs.oracle.com/html/E25494_01/dbrm008.htm

NEW QUESTION 23

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 27

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 28

Which product technology can assist an Application Developer to capture a full production workload and replay on a test system database?

- 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 Real Tuning Pack for Oracle Database

Answer: D

NEW QUESTION 32

When planning an Oracle Database architecture, which are three caching functionalities that would improve application response time and speed up query processing?

- A. Result Cache
- B. Mega Cache
- C. Oracle In-Memory Database Cache
- D. Database Smart Flash Cache
- E. Oracle In-Memory DBSTATS Cache

Answer: ACD

NEW QUESTION 34

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. Tablespace

- E. V\$ performance views
- F. Hints

Answer: BDE

NEW QUESTION 37

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 40

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 41

To analyze all database instances in an Oracle Real Application Cluster, in which mode would you run Automatic Database Diagnostic Monitor?

- A. INSTANCE
- B. DATABASE
- C. FULL
- D. CLUSTER
- E. PARTIAL
- F. ALL

Answer: A

Explanation: Reference: http://docs.oracle.com/cd/E25178_01/server.11111/e16638/diag.htm

NEW QUESTION 42

Which issue can be avoided by configuring the PCTFREE parameter?

- A. row chaining and setting it has been superseded by Automatic Segment Space Management
- B. table fragmentation, and has been superseded by Automatic Storage Management
- C. column fragmentation
- D. sort operations on disk
- E. keeping a reserve area for backup

Answer: A

NEW QUESTION 45

To isolate performance problem in an Oracle real Application Cluster, for which two abilities would you implement Oracle Diagnostics Pack for Oracle Databases?

- A. Cluster-wide performance analysis and reports with ADDM on issues that affect an entire database as well as its individual instances.
- B. Database-wide analysis of global resources by ADDM for high-load SQL, global cache interconnect traffic, and skew in instance response times.
- C. ADDM X\$ and V\$ performance analysis and reports that compare the overall RAC Database to the sum of its individual database instances.
- D. ADDM recommendations inclusive of SAN and NFS mounted storage to pinpoint issues within the storage cache.
- E. ADDM's ability to review SNMP trap error messages and automatically open trouble tickets.

Answer: CD

NEW QUESTION 46

When preparing a new database installation, you want to ensure automatic collection of timed statistics. Which three configuration parameters are applicable?

- A. STATISTICS_LEVEL parameter set to TYPICAL
- B. STATISTICS_LEVEL parameter set to All
- C. TIMED_STATISTICS parameter set to true
- D. ALL_TIMED_STATISTICS parameter set to TRUE
- E. AUTO_STATS parameter set to TRUE

F. STATISTICS_LEVELparameter set to BASIC.

Answer: ABF

NEW QUESTION 47

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 48

You need to limit the resources available to each Pluggable Database (PDB) within a Container Database (CDB). Utilizing Resource Manager, which are three options that can be managed by a resource plan?

- A. memory
- B. CPU
- C. Parallel Execution Servers
- D. shares of systemresources
- E. number of users
- F. number of tables or indexes
- G. number of indexes

Answer: BCD

NEW QUESTION 53

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 54

Which action can be performed by using Oracle Enterprise Manager Database Express Performance Hub?

- A. View health status and performance of an Oracle Database instance via Database Control.
- B. Launch and view STATSPACK reports.
- C. View real-time and historical Oracle Database performance information.
- D. View only real-time Oracle Database performance information.
- E. View only historical Oracle Database performance information.
- F. Consolidate ADDM, AWR, and ASH repositories within an enterprise and enable centralized performance reporting.

Answer: C

NEW QUESTION 58

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 59

When planning Oracle Database Architecture, which option can be used to reduce the number of Oracle processes waiting in the Operating System run queue and to ensure that database CPU load is healthy?

- A. Exadata
- B. Oracle Job Scheduler
- C. DATABASE_MAXCPUS=YES
- D. Oracle Database Resource Manager
- E. DB_RAC_MAXCPU=YES
- F. Oracle Grid Control

Answer: D

Explanation: Reference: <http://www.oracle.com/technetwork/database/performance/resource-manager-twp-133705.pdf>

NEW QUESTION 60

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 65

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, atany of their worldwide locations, without additional licensing.
- B. No matter how AWR snapshot reports are accessed, Oracle Enterprise Edition Database customers needto 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 theywant, at that location, without additional licensing.
- D. No matter how AWR snapshot reports are accessed, Oracle Enterprise Edition Database customers needtobe licensed for the Advanced Analytic Pack for Oracle Databases.
- E. With an Oracle Database Enterprise Edition license, an Oracle customer can access AWR snapshots byusing SQ
- F. If you use anything else, then you need an additional license.

Answer: C

NEW QUESTION 70

In an Active Session History report, which response is correct?

- A. 60 minutes of ASH data can be held in memory, so only 1 hour can be reported.
- B. 60 minutes of ASH data can be held in memory, but more than 1 hour can be reported.
- C. ASH data is available 24 hoursbecause AWR snapshots refresh every night.
- D. As ASH data is flushed every 60 seconds, you need to set up a snapshot withDBA_JOBSfor what you want to keep.

Answer: A

NEW QUESTION 71

When performing performance analysis of Oracle Real Application Cluster (RAC) databases, what are three Automatic Database Diagnostics Monitoring (ADDM) analysis modes that are available?

- A. Database
- B. Instance
- C. Partial
- D. Sample
- E. Average

Answer: ABC

NEW QUESTION 73

Which functionality should be used to recommend materialized views and view logs, indexes, SQL profiles,and partitions for a specific workload use?

- A. SQL Performance Analyzer
- B. Top SQL
- C. SQL Tuning Advisor
- D. SQL Access Advisor
- E. Workload Advisor

Answer: D

Explanation: Reference: http://docs.oracle.com/cd/E25054_01/fusionapps.1111/e14496/monitor_db.htm (12.2.4.5 Using SQL Access Advisor)

NEW QUESTION 77

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 80

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 Repository
- F. Data is stored in views inside the Oracle database.
- G. Automatic Diagnostic Repository
- H. Data is stored in views inside the Oracle database.
- I. Automatic Diagnostic Repository
- 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 85

Which statement is true about implementation of an Oracle Database Performance and Tuning solution?

- A. It is available for Oracle Database Standard and Enterprise Editions.
- B. It is applicable for Oracle Database 12c and later versions.
- C. It builds on capabilities built into Oracle databases.
- D. It is recommended for Production environments, but not for Development or QA.
- E. It is delivered with Oracle Engineered Systems.

Answer: E

NEW QUESTION 88

Instead of a database automatically publishing statistics when statistics collection ends, you want to test queries a satisfactory result before they are made available to the entire database. Which would you configure for that to occur?

- A. SetOPTIMIZER_USE_PENDING_STATISTICS to TRUE.
- B. SetAUTO_UPDATE_STATISTICS to FALSE.
- C. Use a HOLD HINT in the SQL.
- D. SetAUTOMATIC_WORKLOAD_REPOSITORY_COLLECTION to PAUSE.

Answer: A

NEW QUESTION 93

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 98

IT Operations had observed short CPU spikes and I/O storms prior to a retail website outage. Which functionality of Diagnostics Pack for Oracle Databases would you implement to diagnose and resolve the customer's issue?

- A. Active Workload History to collect SQL at the time of its execution.
- B. SQL Performance Analyzer to capture the information in the SGA, the sessions active, and analyze the SQL executing.
- C. Oracle Workload Advisor that automatically turns on and captures the offending SQL Statements when thresholds are reached.
- D. Active Session History to capture sessions and dump the SQL executing, performance attributes and relevant information into a buffer for analysis.

- E. Active SQL History Analyzer to do perform a comparison of SQL statements before and after.
- F. Oracle Exadata, as it already includes Diagnostic Pack for Oracle Database.

Answer: F

NEW QUESTION 100

What are two reasons for which the Diagnostics and Tuning packs are essential to ongoing maintenance of an Oracle Database?

- A. With Diagnostics and Tuning Packs installed, an Oracle database recovers easily from a crash or corruption.
- B. Oracle Databases are constantly changing; more users, data added and deleted, varying SQL at application level.
- C. Diagnostics and Tuning Packs are needed to keep Oracle Database table and index statistics current.
- D. Inefficient "Bad" application SQL can be detected by Diagnostics Pack and then optimized utilizing Tuning Pack SQL Profiles, even if it can't be changed at the application end.
- E. Diagnostics and Tuning packs are a prerequisite for a customer to license Oracle Database Enterprise Edition.

Answer: CE

NEW QUESTION 101

Which three issues can be addressed with an Oracle Database Performance and Tuning solution?

- A. erratic or inconsistent database performance
- B. declining database responsiveness
- C. unlimited I/O
- D. fragmented database tables
- E. database registry errors
- F. database replication

Answer: CDF

NEW QUESTION 103

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 108

Which option would you use to validate performance when migrating an Oracle Database from HPUX 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 113

When implementing an Oracle Database Performance and Tuning solution, which are three product technologies recommended for use as your base configuration?

- A. SQL Tuning Pack for Oracle Database
- B. Oracle Tuning Pack for Oracle Database
- C. Oracle Performance Pack for Oracle Database
- D. Oracle Diagnostics Pack for Oracle Database
- E. Oracle Real Application Testing
- F. Oracle SQL Developer
- G. STATSPACK

Answer: BDE

Explanation: Reference: <http://www.oracle.com/partners/en/most-popular-resources/db-performance-tuning-study-guide2138991.pdf> (See page #03, Application product technology subject areas include).

NEW QUESTION 114

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 119

Which is the default statistics gathering period for Automatic Database Diagnostics Monitoring (ADDM)?

- A. every 30 seconds
- B. every 60 minutes
- C. every 30 minutes
- D. every 24 hours
- E. every 40 hours

Answer: A

NEW QUESTION 123

As of Oracle Database 12c, which functionality to access database diagnostic and performance has been superseded by Oracle Enterprise Manager Database Express?

- A. SQL Developer
- B. SQL Plus
- C. Database console
- D. SQL Express
- E. Grid Control

Answer: C

Explanation: Reference: <http://dbaora.com/enterprise-manager-database-express-oracle-database-12c-release-1-12-1/>

NEW QUESTION 127

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 129

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