



# 1Z0-515<sup>Q&As</sup>

Data Warehousing 11g Essentials

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### QUESTION 1

Your customer wants to use Database Resource Manager to help ensure consistent performance based on users and operations. In designing this implementation, which limitation CANNOT be imposed through Database Resource Manager?

- A. Specifying the maximum number of concurrent operations for a resource group
- B. Limiting resource consumption for a resource group
- C. Specifying the amount of parallelism for a resource group
- D. Limiting access to particular data for a resource group

Correct Answer: D

Explanation:

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### QUESTION 2

Your customer wants to determine "market baskets." What do you recommend?

- A. Use Oracle OLAP Option.
- B. Use Oracle SQL Analytic Functions.
- C. Use associations algorithm in Oracle Data Mining.
- D. Use regression analysis in Oracle Data Mining

Correct Answer: C

Explanation:

Association is a data mining function that discovers the probability of the co-occurrence of items in a collection. The relationships between co-occurring items are expressed as association rules.

Market-Basket Analysis

Association rules are often used to analyze sales transactions. For example, it might be noted that customers who buy cereal at the grocery store often buy milk at the same time. In fact, association analysis might find that 85% of the checkout sessions that include cereal also include milk. This relationship could be formulated as the following rule.

Cereal implies milk with 85% confidence

This application of association modeling is called market-basket analysis. It is valuable for direct marketing, sales promotions, and for discovering business trends. Market-basket analysis can also be



used effectively for store layout, catalog design, and cross-sell.

Association Algorithm

Oracle Data Mining uses the Apriori algorithm to calculate association rules for items in frequent itemsets.

References:

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### QUESTION 3

Which is NOT among Oracle SQL Analytic functions included in Oracle Database 11g?

- A. Ranking functions
- B. Substring functions
- C. Window aggregate functions
- D. LAG/LEAD functions

Correct Answer: B

Explanation:

Substring functions are not analytic.

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### QUESTION 4

Exadata uses smart scans, which are executed in\_\_\_\_\_.

- A. Exadata Storage Server cells
- B. Database Server node memory
- C. Database Server node CPUs
- D. Exadata does not use smart scans.

Correct Answer: A

Explanation: The Oracle Exadata Database Machine brings database performance to a whole new level, but have you ever wondered what exactly makes it so fast? Several components of the Oracle Exadata Database Machine, such as Oracle Database 11g Release 2; Oracle Exadata's Smart Flash Cache, Hybrid Columnar Compression, and SmartScan features; and InfiniBand interconnect, help deliver high performance. One of the key technologies that supports this performance is the storage index, which is not a regular database index. Storage indexes reside in the memory of the storage servers--also called storage cells--and significantly reduce unnecessary I/O by excluding irrelevant database blocks in the storage cells.

Oracle Exadata I/O and Smart Scan Storage in Oracle Exadata changes query processing so that not all blocks have to go to the database server for that server to determine which rows might satisfy a query. Oracle Exadata's Smart Scan feature enables certain types of query processing to be done in the storage cell. With Smart Scan technology, the database nodes send query details to the storage cells via a protocol known as iDB (Intelligent Database). With this information, the storage cells can take over a large portion of the data-intensive query processing. Oracle Exadata



storage cells can search storage disks with added intelligence about the query and send only the relevant bytes, not all the database blocks, to the database nodes--hence the term smart scan.

References:

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### QUESTION 5

Your customer wants to implement an ILM strategy. The customer must have which option when deploying Oracle's ILM Assistant to implement this strategy?

- A. RAC
- B. Partitioning
- C. OLAP
- D. Oracle Clusterware

Correct Answer: B

Explanation: Information Lifecycle Management (ILM) is a set of policies and procedures for managing data during its lifetime. The ILM Assistant manages information by recommending the correct placement of data on logical storage tiers as specified by a lifecycle definition, where a lifecycle definition describes the stages and storage tiers that data resides on during its lifetime. Each stage specifies a retention period during which the data resides on a logical storage tier. A logical storage tier is a collection of Oracle tablespaces in which partitions may reside.

Note: Information today comes in a wide variety of types, for example an E-mail message, a photograph, or an order in an Online Transaction Processing System. Therefore, once you know the type of data and how it will be used, you already have an understanding of what its evolution and final destiny is likely to be.

One of the challenges facing each organization is to understand how its data evolves and grows, monitor how its usage changes over time, and decide how long it should survive, while adhering to all the rules and regulations that now apply to that data. Information Lifecycle Management (ILM) is designed to address these issues, with a combination of processes, policies, software, and hardware so that the appropriate technology can be used for each stage in the lifecycle of the data.

References:

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