

# DS0-001 Test Questions & DS0-001 Test Dumps & DS0-001 Study Guide

```
result = session.execute(
    select (Customer.ID, Customer.State, Customer.Country).
        .order_by (Customer.First_Purchase_Date)
)
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: C**

**Explanation:**

The ORM snippet that would return the ID, state, and country of all customers with the newest customers appearing first is option C. This snippet uses the select method to specify the columns to be returned, the order method to sort the results by ID in descending order, and the all method to fetch all the records. The other options either have syntax errors, use incorrect methods, or do not sort the results correctly. Reference: CompTIA DataSys+ Course Outline, Domain 1.0 Database Fundamentals, Objective 1.2 Given a scenario, execute database tasks using scripting and programming languages.

3.A DBA is reviewing the following logs to determine the current data backup plan for a primary data server:

Timestamp	Activity	Size	Duration
2023-Jan-23 23:59:00	Back up to disk	7.35GB	03:14:55
2023-Jan-24 23:59:00	Back up to disk	0.12GB	00:14:22
2023-Jan-25 23:59:00	Back up to disk	1.11GB	01:11:55
2023-Jan-26 23:59:00	Back up to disk	1.23GB	01:22:12
2023-Jan-27 23:59:00	Back up to disk	1.22GB	01:19:56
2023-Jan-28 23:59:00	Back up to disk	1.21GB	01:17:19
2023-Jan-29 23:59:00	Back up to disk	0.94GB	01:01:29
2023-Jan-30 23:59:00	Back up to disk	8.1GB	03:45:66

Which of the following best describes this backup plan?

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## CompTIA DS0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• Database Deployment: In this topic, you'll find discussions on database planning and design aspects. It also focuses on the implementation, testing, and deployment phases of databases.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• Business Continuity: Finally, this topic covers the importance of disaster recovery techniques. Moreover, the topic explains backup and restore best practices and processes.</li> </ul>

Topic 3	<ul style="list-style-type: none"> <li>• Database Management and Maintenance: Here, you'll learn about monitoring and reporting for database management and performance, common database maintenance processes, documentation production, and relevant tools usage. Lastly, the topic focuses on implementing data management tasks.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Data and Database Security: This topic focuses on data security concepts, governance and regulatory compliance purposes, implementing authentication and authorization policies and best practices. Additionally, the topic discusses database infrastructure security, and understanding types of attacks and their effects on data systems.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• Database Fundamentals: This topic covers database structure types, SQL code development and modification based on scenarios, comparison of scripting methods and environments, and the impact of programming on database operations.</li> </ul>

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### CompTIA DataSys+ Certification Exam Sample Questions (Q32-Q37):

#### NEW QUESTION # 32

Which of the following describes the purpose of a snapshot?

- A. To create a tablespace
- B. To create a dynamic data replication
- C. To create an image of a database
- D. To create a synonym

**Answer: C**

Explanation:

The purpose of a snapshot is to create an image of a database. A snapshot is a copy of the state and content of a database at a specific point in time. A snapshot can be used for various purposes, such as backup and recovery, testing and development, reporting and analysis, etc. A snapshot can be created using various techniques, such as full copy, incremental copy, differential copy, etc. A snapshot can also be created using various tools or commands provided by the database system or software.

#### NEW QUESTION # 33

A database administrator is updating an organization's ERD. Which of the following is the best option for the database administrator to use?

- A. HTML editor
- B. Spreadsheet
- C. Word processor
- D. UML tool

**Answer: D**

Explanation:

The best option for the database administrator to use to update an organization's ERD is a UML tool. A UML tool is a software application that allows users to create, edit, and visualize diagrams using the Unified Modeling Language (UML). UML is a standard language for modeling software systems and their components, such as classes, objects, relationships, behaviors, etc. UML can also be used to create entity relationship diagrams (ERDs), which are graphical representations of the entities (tables), attributes (columns), and relationships (constraints) in a database. A UML tool can help the administrator to update an organization's ERD by

providing features such as drag-and-drop, templates, symbols, validation, etc. The other options are either not suitable or not optimal for this task. For example, a word processor is a software application that allows users to create and edit text documents; a spreadsheet is a software application that allows users to organize and manipulate data in rows and columns; an HTML editor is a software application that allows users to create and edit web pages using HyperText Markup Language (HTML).

#### NEW QUESTION # 34

Which of the following firewall types allows an administrator to control traffic and make decisions based on factors such as connection information and data flow communications?

- A. Circuit-level
- B. Packet
- C. Stateful
- D. Proxy

**Answer: C**

Explanation:

The firewall type that allows an administrator to control traffic and make decisions based on factors such as connection information and data flow communications is stateful. A stateful firewall is a type of firewall that tracks the state of each connection and packet that passes through it, and applies rules or policies based on the context and content of the traffic. A stateful firewall can control traffic and make decisions based on factors such as source and destination IP addresses, ports, protocols, session status, application layer data, etc. The other options are either different types of firewalls or not related to firewalls at all. For example, a circuit-level firewall is a type of firewall that monitors and validates the establishment of TCP or UDP connections; a proxy firewall is a type of firewall that acts as an intermediary between the source and destination of the traffic; a packet firewall is a type of firewall that filters packets based on their header information. References: CompTIA DataSys+ Course Outline, Domain 4.0 Data and Database Security, Objective 4.2 Given a scenario, implement security controls for databases.

#### NEW QUESTION # 35

A data analyst would like to select only one copy of each of the duplicated regions in the chart below:

□ Which of the following SQL commands should the data analyst use to complete this task?

- A. SELECT DIFFERENT
- B. SELECT DISTINCT
- C. SELECT UNIQUE
- D. SELECT COUNT()

**Answer: B**

Explanation:

The SELECT DISTINCT command retrieves unique values from a column, allowing the analyst to select only one copy of each duplicated region.

#### NEW QUESTION # 36

Which of the following should be factored into the decision regarding storage when planning a new database? (Choose two.)

- A. Central processing unit cores
- B. Random-access memory
- C. Database compatibility
- D. Size
- E. Speed
- F. Popularity

**Answer: D,E**

Explanation:

Speed and size are critical factors in storage decisions for databases, as they affect performance and capacity requirements.

## NEW QUESTION # 37

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