

Realistic Valid DS0-001 Test Questions - Easy and Guaranteed DS0-001 Exam Success



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CompTIA DS0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	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.
Topic 2	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.
Topic 3	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.
Topic 4	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.
Topic 5	Business Continuity: Finally, this topic covers the importance of disaster recovery techniques. Moreover, the topic explains backup and restore best practices and processes.

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New Valid DS0-001 Test Questions | High Pass-Rate CompTIA DS0-001 Exam Prep: CompTIA DataSys+ Certification Exam

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CompTIA DataSys+ Certification Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

Which of the following best describes the function of a wildcard in the WHERE clause?

- A. An exact match is necessary in a CREATE statement.
- B. An exact match is not possible in a CREATE statement.
- C. An exact match is not possible in a SELECT statement.
- D. An exact match is necessary in a SELECT statement.

Answer: C

Explanation:

A wildcard in the WHERE clause allows pattern matching instead of requiring an exact match when filtering records in a SELECT statement.

NEW QUESTION # 71

A server administrator wants to analyze a database server's disk throughput. Which of the following should the administrator measure?

- A. Reads
- B. RPFvI
- C. IOPS
- D. Latency

Answer: C

Explanation:

The factor that the administrator should measure to analyze a database server's disk throughput is IOPS. IOPS, or Input/Output Operations Per Second, is a metric that measures the number of read and write operations that a disk can perform in one second. IOPS indicates the performance or speed of a disk and how well it can handle multiple requests or transactions. Higher IOPS means higher disk throughput and lower latency. IOPS can be affected by various factors, such as disk type, size, speed, cache, RAID level, etc. The other options are either not related or not sufficient for this purpose. For example, RPFvI is not a valid acronym or metric; latency is the time delay between a request and a response; reads are the number of read operations performed by a disk. Reference: CompTIA DataSys+ Course Outline, Domain 3.0 Database Management and Maintenance, Objective 3.2 Given a scenario, monitor database performance.

NEW QUESTION # 72

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

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

Answer: A

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 # 73

(Which of the following describes the method in which data is encrypted first with an encryption key and then wrapped by a managed root key?)

- A. DEK-based encryption
- B. Symmetric encryption
- C. Asymmetric encryption
- D. Envelope encryption

Answer: D

Explanation:

The correct answer is D. Envelope encryption. CompTIA DataSys+ describes envelope encryption as a key management and data protection method that combines the efficiency of symmetric encryption with the security and manageability of hierarchical key structures. In this approach, data is first encrypted using a data encryption key (DEK), and then the DEK itself is encrypted (or "wrapped") using a key encryption key (KEK), often referred to as a managed root key.

Envelope encryption is widely used in enterprise database systems and cloud platforms because it provides strong security while simplifying key rotation and management. Encrypting large volumes of data directly with a root or master key would be inefficient and risky. Instead, DataSys+ explains that symmetric DEKs are used for fast data encryption, while the root key is used only to protect the DEKs. If a root key must be rotated or compromised, only the wrapped DEKs need to be re-encrypted-not the underlying data.

Option A, asymmetric encryption, uses public and private key pairs but is computationally expensive and not typically used to encrypt large datasets directly. Option B, DEK-based encryption, is incomplete because it describes only the use of data encryption keys and does not account for the additional wrapping layer that defines envelope encryption. Option C, symmetric encryption, correctly describes how data is encrypted but does not include the managed key hierarchy required by the question.

CompTIA DataSys+ emphasizes envelope encryption as a best practice for data-at-rest protection, particularly in environments that require compliance, auditing, and centralized key management. It is commonly implemented using hardware security modules (HSMs) or cloud key management services.

Therefore, the method where data is encrypted with a DEK and then wrapped with a managed root key is envelope encryption, making option D the correct and fully verified answer.

NEW QUESTION # 74

Refer to exhibit.

Given the following customer table:

ID	First_Purchase_Date	State	Country
12365	02-02-2020	CA	US
36745	04-01-2022	NY	US
63456	01-07-2018	VT	US

Which of the following ORM snippets would return the ID, state, and country of all customers with the newest customers appearing first?

- A.

```
result = session.execute(
    select(Customer.ID, Customer.State, Customer.Country)
)
```
- B.

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

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

- C.
- D.

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

Answer: A

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.

NEW QUESTION # 75

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