

# Practice CompTIA DS0-001 Exam, DS0-001 New Braindumps Pdf

# CompTIA

# DataSys+

# DS0-001

## 80 Practice Test Questions

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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>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 3	<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 4	<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>

Topic 5

- 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.

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### CompTIA DataSys+ Certification Exam Sample Questions (Q110-Q115):

#### NEW QUESTION # 110

Which of the following is the correct order of the steps in the database deployment process?

- A. 1. Connect  
2. Install  
3. Configure  
4. Confirm prerequisites  
5. Validate  
6. Test  
7. Release
- B. 1. Confirm prerequisites  
2. Install  
3. Configure  
4. Connect  
5. Test  
6. Validate  
7. Release
- C. 1. Install  
2. Configure  
3. Confirm prerequisites  
4. Connect  
5. Test  
6. Validate  
7. Release
- D. 1. Configure  
2. Install  
3. Connect  
4. Test  
5. Confirm prerequisites  
6. Validate  
7. Release

**Answer: B**

Explanation:

This order follows the best practices for deploying a database system, which are:

Confirm prerequisites: Check the system requirements and compatibility of the database software and tools before installation.

Install: Install the database software and tools on the target server or platform.

Configure: Configure the database settings and parameters according to the specifications and needs of the application or organization.

Connect: Connect the database to the network and other systems or applications that will access it.

Test: Test the functionality and performance of the database system and verify that it meets the expectations and requirements.  
Validate: Validate the data quality and integrity of the database system and ensure that it complies with the standards and regulations.  
Release: Release the database system to production and make it available for use by end-users or customers.  
The other options do not follow this order and may result in errors, inefficiencies, or security issues.

#### NEW QUESTION # 111

A business analyst is using a client table and an invoice table to create a database view that shows clients who have not made purchases yet. Which of the following joins is most appropriate for the analyst to use to create this database view?

- A. INNER JOIN ON Client.Key = Invoice.Key
- B. LEFT JOIN ON Client.Key = Invoice.Key WHERE BY Invoice.Key IS NOLL
- C. RIGHT JOIN ON Client.Key = Invoice.Key WHERE BY Client.Key IS NOLL
- D. LEFT JOIN ON Client.Key = Invoice.Key

**Answer: B**

Explanation:

The join that is most appropriate for the analyst to use to create this database view is option D. This join uses the LEFT JOIN clause to combine the client table and the invoice table based on the matching values in the Key column. The WHERE clause filters out the rows where the Invoice.Key column is not null, meaning that the client has made a purchase. The result is a view that shows only the clients who have not made any purchases yet. The other options either do not produce the desired result or have syntax errors. For example, option A would show only the clients who have made purchases, option B would show only the invoices that do not have a matching client, and option C would show all the clients regardless of their purchase status. 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 # 112

Which of the following computer services associates IP network addresses with text-based names in order to facilitate identification and connectivity?

- A. LDAP
- B. DNS
- C. NTP
- D. DHCP

**Answer: B**

Explanation:

The computer service that associates IP network addresses with text-based names in order to facilitate identification and connectivity is IDNS. IDNS, or Internet Domain Name System (DNS), is a service that translates domain names into IP addresses and vice versa. Domain names are human-readable names that identify websites or devices on the internet, such as www.comptia.org or www.google.com. IP addresses are numerical identifiers that locate websites or devices on the internet, such as 104.18.26.46 or 142.250.72.238. IDNS helps users to access websites or devices using domain names instead of IP addresses, which are easier to remember and type. IDNS also helps administrators to manage websites or devices using domain names instead of IP addresses, which are more flexible and scalable. The other options are either different computer services or not related to IP network addresses or text-based names at all. For example, LDAP, or Lightweight Directory Access Protocol, is a service that provides access to directory information such as users, groups, or devices on a network; NTP, or Network Time Protocol, is a service that synchronizes the clocks of computers or devices on a network; DHCP, or Dynamic Host Configuration Protocol, is a service that assigns IP addresses and other network configuration parameters to computers or devices on a network.

#### NEW QUESTION # 113

(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. Envelope encryption
- B. Symmetric encryption
- C. Asymmetric encryption

- D. DEK-based encryption

**Answer: A**

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 # 114

A company wants to deploy a new application that will distribute the workload to five different database instances. The database administrator needs to ensure that, for each copy of the database, users are able to read and write data that will be synchronized across all of the instances.

Which of the following should the administrator use to achieve this objective?

- A. Log shipping
- **B. [Peer-to-peer replication]**
- C. Failover clustering
- D. Availability groups

**Answer: B**

Explanation:

The administrator should use peer-to-peer replication to achieve this objective. Peer-to-peer replication is a type of replication that allows data to be distributed across multiple database instances that are equal partners, or peers. Each peer can read and write data that will be synchronized across all peers. This provides high availability, scalability, and load balancing for the application. The other options are either not suitable for this scenario or do not support bidirectional data synchronization. For example, failover clustering provides high availability but does not distribute the workload across multiple instances; log shipping provides disaster recovery but does not allow writing data to secondary instances; availability groups provide high availability and read-only access to secondary replicas but do not support peer-to-peer replication. Reference: CompTIA DataSys+ Course Outline, Domain 5.0 Business Continuity, Objective 5.3 Given a scenario, implement replication of database management systems.

#### NEW QUESTION # 115

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