

# Test DS0-001 Discount Voucher, DS0-001 Testking Exam Questions

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1. Over the weekend, a company's transaction database was moved to an upgraded server. All validations performed after the migration indicated that the database was functioning as expected. However, on Monday morning, multiple users reported that the corporate reporting application was not working. Which of the following are the most likely causes? (Choose two.)

- A. The access permissions for the service account used by the reporting application were not changed.
- B. The new database server has its own reporting system, so the old one is not needed.
- C. The reporting jobs that could not process during the database migration have locked the application.
- D. The reporting application's mapping to the database location was not updated.
- E. The database server is not permitted to fulfill requests from a reporting application.
- F. The reporting application cannot keep up with the new, faster response from the database.

**Answer:** A, D

**Explanation:**

The most likely causes of the reporting application not working are that the access permissions for the service account used by the reporting application were not changed, and that the reporting application's mapping to the database location was not updated. These two factors could prevent the reporting application from accessing the new database server. The other options are either irrelevant or unlikely to cause the problem.

Reference: CompTIA DataSys+ Course Outline, Domain 3.0 Database Management and Maintenance, Objective 3.2 Given a scenario, troubleshoot common database issues.

2. 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).  
    .order_by(Customer.First_Purchase_Date.asc())  
)
```

B)

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

C)

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

D)

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depicts the CompTIA DS0-001 Exam scenario with proper rules and regulations so you can practice all the hurdles and difficulties.

## 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>  |

## CompTIA DataSys+ Certification Exam Sample Questions (Q103-Q108):

### NEW QUESTION # 103

A data scientist recently joined a company and needs to review the data before building models. Which of the following tools can the data scientist use to find the most extensive details?

- A. Maintenance documentation
- B. Entity relationship diagram
- C. Unified modeling language
- D. Data dictionary

**Answer: D**

Explanation:

A data dictionary provides detailed metadata about data elements, including definitions, formats, and relationships, helping the data scientist understand the dataset comprehensively.

### NEW QUESTION # 104

A database administrator is concerned about transactions in case the system fails. Which of the following properties addresses this concern?

- A. Consistency
- B. Isolation
- C. Durability
- D. Atomicity

**Answer: C**

Explanation:

The property that addresses this concern is durability. Durability is one of the four properties (ACID) that ensure reliable transactions in a database system. Durability means that once a transaction has been committed, its effects are permanent and will not be lost in case of system failure, power outage, crash, etc. Durability can be achieved by using techniques such as write-ahead logging, checkpoints, backup and recovery, etc. The other options are either not related or not specific to this concern. For example,

isolation means that concurrent transactions do not interfere with each other and produce consistent results; atomicity means that a transaction is either executed as a whole or not at all; consistency means that a transaction preserves the validity and integrity of the data. Reference: CompTIA DataSys+ Course Outline, Domain 1.0 Database Fundamentals, Objective 1.3 Given a scenario, identify common database issues.

#### NEW QUESTION # 105

An e-commerce website that resides in the cloud is lagging due to high traffic following the launch of a promotional offer. Which of the following should the IT manager do to improve the performance of the website?

- A. Move the website to an on-premises server.
- B. Increase the bandwidth during peak hours.
- C. Limit access to 1,000 concurrent connections.
- **D. Increase the computing resources.**

**Answer: D**

Explanation:

Increasing computing resources (such as CPU, RAM, or adding more instances) in the cloud will help handle higher traffic loads, directly improving website performance during traffic spikes.

#### NEW QUESTION # 106

Which of the following is recommended in order to provide encrypted data communication pathways for information as it is transmitted over a network?

- A. TCP/IP
- B. SMB
- C. NFS
- **D. TLS**

**Answer: D**

Explanation:

The option that is recommended in order to provide encrypted data communication pathways for information as it is transmitted over a network is TLS. TLS, or Transport Layer Security, is a protocol that provides secure communication over the internet by encrypting the data using cryptographic algorithms and keys. TLS also provides authentication and integrity by verifying the identity of the parties involved and ensuring that the data has not been altered or tampered with. TLS can be used to protect various types of data, such as web traffic, email, instant messaging, voice over IP, etc. The other options are either not related or not sufficient for this purpose. For example, TCP/IP, or Transmission Control Protocol/Internet Protocol, is a set of protocols that defines how data is transmitted and routed over the internet, but does not provide encryption or security; NFS, or Network File System, is a protocol that allows users to access and share files over a network, but does not provide encryption or security; SMB, or Server Message Block, is a protocol that allows users to access and share files, printers, and other resources over a network, but does not provide encryption or security. Reference: CompTIA DataSys+ Course Outline, Domain 4.0 Data and Database Security, Objective 4.2 Given a scenario, implement security controls for databases.

#### NEW QUESTION # 107

A company needs to prepare a document that establishes the responsibilities, metrics, penalties, and other generalities that a provider would have to fulfill for customers to use its platforms.

Which of the following documents meets these requirements?

- A. MOU
- B. DOU
- C. SOW
- **D. SLA**

**Answer: D**

Explanation:

The document that meets these requirements is an SLA. An SLA, or Service Level Agreement, is a contract between a service

provider and a customer that defines the scope, quality, and terms of the service delivery. An SLA typically includes the responsibilities, metrics, penalties, and other generalities that a provider would have to fulfill for customers to use its platforms. An SLA also establishes the expectations and obligations of both parties, as well as the methods for measuring and monitoring the service performance. The other options are either different types of documents or not related to service delivery. For example, a DOU, or Data Use Agreement, is a document that governs the sharing and use of data between parties; an MOU, or Memorandum of Understanding, is a document that expresses a mutual agreement or intention between parties; a SOW, or Statement of Work, is a document that describes the specific tasks and deliverables of a project or contract. Reference: CompTIA DataSys+ Course Outline, Domain 2.0 Database Deployment, Objective 2.4 Given a scenario, implement service level agreements.

## NEW QUESTION # 108

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