

The CompTIA DS0-001 Web-Based Practice Exam

CompTIA

DataSys+

DS0-001

80 Practice Test Questions

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CompTIA DS0-001 Exam Syllabus Topics:

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

Topic 5	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.
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CompTIA DataSys+ Certification Exam Sample Questions (Q39-Q44):

NEW QUESTION # 39

Which of the following transactions is allowed in a shared lock?

- A. Delete
- B. Insert
- C. Read
- D. Update

Answer: C

NEW QUESTION # 40

A company is launching a proof-of-concept, cloud-based application. One of the requirements is to select a database engine that will allow administrators to perform quick and simple queries on unstructured data.

Which of the following would be best suited for this task?

- A. MongoDB
- B. Oracle
- C. Graph database
- D. MS SQL

Answer: A

Explanation:

The best suited database engine for this task is MongoDB. MongoDB is a type of non-relational database that stores data as documents in JSON-like format. MongoDB allows administrators to perform quick and simple queries on unstructured data, such as text, images, videos, or social media posts, without requiring a predefined schema or complex joins. MongoDB also supports cloud-based deployment, scalability, and high availability. The other options are either relational databases that require a fixed schema and structure for data, or specialized databases that are designed for specific purposes, such as graph databases for storing and analyzing network data.

NEW QUESTION # 41

Which of the following concepts applies to situations that require court files to be scanned for permanent reference and original documents be stored for ten years before they can be discarded?

- A. Data retention policies
- B. Data classification
- C. Data loss prevention
- D. Global regulations

Answer: A

Explanation:

The concept that applies to situations that require court files to be scanned for permanent reference and original documents be stored for ten years before they can be discarded is data retention policies. Data retention policies are rules or guidelines that specify how long data should be kept and when it should be deleted or archived. Data retention policies are often based on legal, regulatory, or business requirements, and help organizations manage their data lifecycle, storage, and compliance. The other options are either not related or not specific to this situation. For example, data loss prevention is a process that aims to prevent data from being leaked, stolen, or corrupted; data classification is a process that assigns labels or categories to data based on its sensitivity, value, or risk; global regulations are laws or standards that apply to data across different countries or regions. References: CompTIA DataSys+ Course Outline, Domain 4.0 Data and Database Security, Objective 4.1 Given a scenario, apply security principles and best practices for databases.

NEW QUESTION # 42

(A database administrator wants to create a database that does not have a predefined schema. Which of the following tools should the administrator use to create this type of database? Select two.)

- A. SQL Server
- B. MongoDB
- C. MariaDB
- D. Cosmos
- E. PostgreSQL
- F. MySQL

Answer: B,D

Explanation:

The correct answers are E. MongoDB and F. Cosmos. CompTIA DataSys+ clearly differentiates between relational databases, which require predefined schemas, and non-relational (NoSQL) databases, which support flexible or schema-less data models. A schema-less database allows data to be stored without enforcing a fixed table structure, making it ideal for rapidly changing data requirements, unstructured data, or applications with evolving schemas.

MongoDB is a document-oriented NoSQL database that stores data in flexible, JSON-like documents. Each document in a MongoDB collection can have a different structure, allowing developers to add or remove fields without modifying a predefined schema. DataSys+ highlights document stores like MongoDB as well-suited for modern applications that require agility, scalability, and the ability to handle semi-structured or unstructured data.

Cosmos (commonly referring to Azure Cosmos DB) is a globally distributed NoSQL database service that supports multiple data models, including core (SQL) API, MongoDB API, and other non-relational models. It is designed for high availability, horizontal scalability, and schema flexibility. DataSys+ includes cloud-based NoSQL platforms such as Cosmos as examples of databases that do not enforce rigid schemas.

Options A, B, C, and D-PostgreSQL, MariaDB, MySQL, and SQL Server-are all relational database management systems (RDBMS). These systems require predefined schemas with fixed table definitions, column data types, and constraints before data can be stored. While some relational systems support limited JSON storage, they are still fundamentally schema-based and do not meet the requirement described in the question.

CompTIA DataSys+ emphasizes selecting database technologies based on data structure and application needs. When schema flexibility is required, NoSQL solutions are preferred. Therefore, the tools best suited for creating a database without a predefined schema are MongoDB and Cosmos, making options E and F the correct and fully verified answers.

NEW QUESTION # 43

A database administrator has been asked to assign a user the ability to view a data set. Which of the following practices best describes this request?

- A. Password policy implementation
- B. Access control
- C. Security audit
- D. Database audit

Answer: B

Explanation:

The practice that best describes this request is access control. Access control is a process that regulates who can access what data in a system based on predefined rules or policies. Access control helps protect data from unauthorized or inappropriate access or

modification by granting or denying permissions or privileges to users or groups based on their roles or identities. By applying access control, the database administrator can assign a user the ability to view a data set without allowing them to change or delete it. The other options are either different practices or not related to this request. For example, security audit is a process that evaluates the security level of a system by identifying vulnerabilities or risks; database audit is a process that monitors and records the activities or events that occur on a database; password policy implementation is a process that defines and enforces rules or standards for creating and managing passwords. 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 # 44

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