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CompTIA DS0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Business Continuity: Finally, this topic covers the importance of disaster recovery techniques. Moreover, the topic explains backup and restore best practices and processes.

- 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.

CompTIA DataSys+ Certification Exam Sample Questions (Q84-Q89):

NEW QUESTION # 84

A database analyst notices a query statement is running slowly. Which of the following should the analyst review first?

- A. Code
- **B. Missing indexes**
- C. Database patches
- D. Table integrity

Answer: B

Explanation:

Missing indexes are a common cause of slow queries, as indexes improve data retrieval speed by allowing efficient searching within tables.

NEW QUESTION # 85

(Which of the following types of scripting can be executed on a web browser?)

- A. Command-line
- B. PowerShell
- **C. Client-side**
- D. Server-side

Answer: C

Explanation:

The correct answer is C. Client-side. CompTIA DataSys+ explains that client-side scripting refers to code that is executed directly within the user's web browser, rather than on a backend server or operating system shell. The most common and widely recognized client-side scripting language is JavaScript, which runs natively in modern web browsers and is used to enhance interactivity, validate input, and dynamically update content on web pages.

Client-side scripts execute after a web page is delivered to the user's browser. This allows for immediate feedback, such as form validation, dynamic content updates, and interactive user interfaces, without requiring a round trip to the server. DataSys+ highlights client-side scripting as an important concept when discussing web applications that interact with databases, particularly because improper client-side controls can introduce security risks if not reinforced by server-side validation.

Option A, server-side scripting, runs on the web server rather than in the browser. Examples include PHP, Python, Ruby, and server-side JavaScript (such as Node.js). These scripts handle tasks like database queries, authentication, and business logic and are never executed in the browser itself. Option B, PowerShell, is a scripting and automation language used primarily in Windows environments for system and database administration tasks and cannot run inside a web browser. Option D, command-line scripting, refers to scripts executed in a terminal or shell environment, not within a browser context.

CompTIA DataSys+ emphasizes the distinction between client-side and server-side execution models because of their impact on performance, security, and data handling. Understanding where code executes is critical for protecting databases from exposure and enforcing proper validation controls.

Therefore, the type of scripting that can be executed in a web browser is client-side scripting, making option C the correct and fully verified answer.

NEW QUESTION # 86

Which of the following is a characteristic of all non-relational databases?

- A. Tabular schema
- **B. Unstructured data**
- C. Logical record groupings
- D. Columns with the same data type

Answer: B

Explanation:

The characteristic of all non-relational databases is unstructured data. Unstructured data is data that does not have a predefined or fixed format, schema, or structure. Unstructured data can include various types of data, such as text, images, audio, video, etc. Non-relational databases, also known as NoSQL databases, are databases that store and manage unstructured data using different models, such as key-value, document, graph, columnar, etc. Non-relational databases are suitable for handling large volumes, variety, and velocity of data that do not fit well in the relational model. The other options are either characteristics of relational databases or not related to database types at all. For example, columns with the same data type, logical record groupings, and tabular schema are characteristics of relational databases, which are databases that store and manage structured data using tables, rows, columns, and constraints. References: CompTIA DataSys+ Course Outline, Domain 1.0 Database Fundamentals, Objective 1.1 Given a scenario, identify common database types.

NEW QUESTION # 87

A new retail store employee needs to be able to authenticate to a database. Which of the following commands should a database administrator use for this task?

- A. ALTER USER
- B. INSERT USER
- **C. CREATE USER**
- D. ALLOW USER

Answer: C

Explanation:

The command that the database administrator should use for this task is CREATE USER. The CREATE USER command is a SQL statement that creates a new user account in a database and assigns it a username and a password. The CREATE USER command also allows the database administrator to specify other options or attributes for the user account, such as default tablespace, quota, profile, role, etc. The CREATE USER command is the first step to enable a user to authenticate to a database. The other options are either invalid or not suitable for this task. For example, INSERT USER is not a valid SQL command; ALLOW USER is not a SQL command, but a keyword used in some database systems to grant permissions to users; ALTER USER is a SQL command that modifies an existing user account, but does not create a new one. 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 # 88

An on-premises application server connects to a database in the cloud. Which of the following must be considered to ensure data integrity during transmission?

- A. Redundancy
- **B. Encryption**
- C. Masking
- D. Bandwidth

Answer: B

Explanation:

The factor that must be considered to ensure data integrity during transmission is encryption. Encryption is a process that transforms data into an unreadable or scrambled form using an algorithm and a key. Encryption helps protect data integrity during transmission by preventing unauthorized access or modification of data by third parties, such as hackers, eavesdroppers, or interceptors. Encryption also helps verify the identity and authenticity of the source and destination of the data using digital signatures or certificates. The other options are either not related or not sufficient for this purpose. For example, bandwidth is the amount of data that can be transmitted over a network in a given time; redundancy is the duplication of data or components to provide backup or alternative sources in case of failure; masking is a technique that replaces sensitive data with fictitious but realistic data to protect its confidentiality or compliance. 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 # 89

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