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CompTIA DS0-001 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Database Fundamentals	24%	- SQL development, modification, and execution - Database structure types and characteristics - Impact of programming on database operations - Scripting methods and environments
Topic 2: Database Management and Maintenance	25%	- Data lifecycle management - Performance monitoring and reporting - Routine maintenance processes and tasks - Documentation and configuration management

Topic 3: Database Deployment	16%	- Migration and integration strategies - Database planning and design considerations - Implementation, testing, and deployment phases
Topic 4: Business Continuity	12%	- High availability and fault tolerance - Disaster recovery planning and strategies - Backup and restoration methods - RTO and RPO definitions and application
Topic 5: Data and Database Security	23%	- Data security concepts and techniques - Governance, risk, and compliance - Authentication, authorization, and access control - Attack types and defense measures - Infrastructure security and threat mitigation

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CompTIA DataSys+ Certification Exam Sample Questions (Q35-Q40):

NEW QUESTION # 35

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

Answer: B

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 # 36

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

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

Answer: D

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 # 37

A database administrator set up a connection for a SQL Server instance for a new user, but the administrator is unable to connect using the user's workstation. Which of the following is the most likely cause of the issue?

- A. The SQL Server codes are performing badly.
- B. The SQL Server has many concurrent users.
- C. The SQL Server ports to the main machine are closed.
- D. The SQL Server has not been tested properly.

Answer: C

Explanation:

The most likely cause of the issue is that the SQL Server ports to the main machine are closed.

SQL Server uses TCP/IP ports to communicate with clients and other servers. If these ports are blocked by a firewall or other network device, the connection will fail. The administrator should check the port configuration on both the server and the user's workstation, and make sure that they are open and match the expected values. The other options are either unlikely or unrelated to the issue. For example, the SQL Server codes performing badly or having many concurrent users may affect the performance or availability of the server, but not prevent the connection entirely; the SQL Server not being tested properly may cause errors or bugs in the functionality or security of the server, but not affect the connection unless there is a configuration problem.

NEW QUESTION # 38

A developer is designing a table that does not have repeated values. Which of the following indexes should the developer use to prevent duplicate values from being inserted?

- A. Implicit
- B. Single column
- C. Unique
- D. Composite

Answer: C

Explanation:

The index that the developer should use to prevent duplicate values from being inserted is unique. A unique index is a type of index that enforces the uniqueness of the values in one or more columns of a table. A unique index ensures that no two rows in the table have the same value or combination of values in the indexed columns. A unique index helps to maintain data integrity and avoid data duplication or inconsistency. The other options are either not related or not effective for this purpose. For example, a single column index is a type of index that involves only one column of a table, but it does not prevent duplicate values unless it is also unique; an implicit index is a type of index that is automatically created by the database system when a constraint or a primary key is defined on a column or columns of a table, but it does not prevent duplicate values unless it is also unique; a composite index is a type of index that involves two or more columns of a table, but it does not prevent duplicate values unless it is also unique. 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 # 39

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

Answer: B

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.

NEW QUESTION # 40

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