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CompTIA DS0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none">• 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 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.
Topic 5	<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.

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CompTIA DataSys+ Certification Exam Sample Questions (Q40-Q45):

NEW QUESTION # 40

Which of the following NFs is considered the most preferable for relational database design?

- A. 4 NF
- **B. 3 NF**
- C. 2NF
- D. 1 NF

Answer: B

Explanation:

The NF (normal form) that is considered the most preferable for relational database design is 3 NF. 3 NF, or Third Normal Form, is a level of normalization that organizes data into tables and columns to reduce redundancy and improve consistency. Normalization is a process that applies a set of rules or criteria to eliminate or minimize the anomalies or problems that may arise from inserting, updating, or deleting data in a database. 3 NF is achieved when a table satisfies the following conditions: - It is in 2 NF (Second Normal Form), which means that every non-key column depends on the whole primary key and not on any subset of it - It has no transitive dependencies, which means that every non-key column depends directly on the primary key and not on any other non-key column 3 NF is considered the most preferable for relational database design because it ensures that each table has only one purpose or theme and that each column has only one value or meaning. This helps avoid data duplication, inconsistency, and update anomalies. The other options are either lower or higher levels of normalization that are either less preferable or less practical for relational database design. For example, 1 NF (First Normal Form) is the lowest level of normalization that requires each column to have atomic values and each row to have a unique identifier; 4 NF (Fourth Normal Form) is a higher level of normalization that requires each table to have no multi-valued dependencies, which means that there are no columns that can have more than one value for the same primary key value; 2 NF (Second Normal Form) is an intermediate level of normalization that requires each non-key column to depend on the whole primary key and not on any subset of it. 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 # 41

A database administrator needs to aggregate data from multiple tables in a way that does not impact the original tables, and then provide this information to a department. Which of the following is the best way for the administrator to accomplish this task?

- A. Create a function.
- B. Create indexes on those tables.
- C. Create a new database.
- **D. Create a materialized view.**

Answer: D

Explanation:

The best way for the administrator to accomplish this task is to create a materialized view. A materialized view is a type of view that stores the result of a query on one or more tables as a separate table in the database. A materialized view can aggregate data from multiple tables in a way that does not impact the original tables, and then provide this information to a department as a single source of truth. A materialized view also improves query performance and efficiency by reducing the need to recompute complex queries every time they are executed. The other options are either not suitable or not optimal for this task. For example, creating indexes on those tables may improve query performance on individual tables, but not on aggregated data; creating a new database may require additional resources and maintenance, and may introduce inconsistency or redundancy; creating a function may require additional coding and execution, and may not store the result as a separate table.

NEW QUESTION # 42

A database administrator wants to remove inactive customers from a database. Which of the following statements should the administrator use?

- A.

```
Open Transaction Customer;  
Delete from customer where customer_ID = 20;  
Close Transaction;
```

- B.

```
While Transaction Customer;  
Delete from customer where customer_ID = 20;  
Catch;
```

- C.

```
Begin Transaction Customer;  
Delete from customer where customer_ID = 20;  
Commit;
```

- D.

```
Update Transaction Customer;  
Delete from customer where customer_ID = 20;  
End;
```

Answer: D

Explanation:

The statement that the administrator should use to remove inactive customers from a database is option A. This statement uses the DELETE command to delete all the rows from the customer table where the status column is equal to 'inactive'. The other options either have syntax errors, use incorrect commands, or do not specify the condition correctly. 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 # 43

A database administrator is new to a company and wants to create a document that illustrates the interaction between tables. Which of the following should the administrator create?

- A. Entity relationship diagram
- B. Troubleshooting guide
- C. Data dictionary
- D. Database reference manual

Answer: A

Explanation:

The document that the administrator should create to illustrate the interaction between tables is an entity relationship diagram. An entity relationship diagram (ERD) is a graphical representation of the entities (tables), attributes (columns), and relationships (constraints) in a database. An ERD helps the administrator to visualize the structure and design of the database, as well as the dependencies and associations among the tables. The other options are either different types of documents or not related to the interaction between tables. For example, a troubleshooting guide is a document that provides instructions on how to solve common problems or errors in a database; a data dictionary is a document that describes the metadata (information about data) of a database; a database reference manual is a document that provides information on how to use or operate a database. Reference: CompTIA DataSys+ Course Outline, Domain 2.0 Database Deployment, Objective 2.2 Given a scenario, create database objects using scripting and programming languages.

NEW QUESTION # 44

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

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

Answer: C

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.

NEW QUESTION # 45

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