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CompTIA DataSys+ Certification Exam Sample Questions (Q107-Q112):

NEW QUESTION # 107
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. Database reference manual
- B. Entity relationship diagram
- C. Data dictionary
- D. Troubleshooting guide

Answer: B

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 # 108
(Which of the following best describes the function of PowerShell in a database environment?)

- A. It allows Linux systems to connect to databases.
- B. It allows Python to connect to databases.
- C. It allows connections to databases through ODBC.
- D. It allows connections to databases through scripts.

Answer: D

Explanation:
The correct answer is D. It allows connections to databases through scripts. CompTIA DataSys+ documentation describes PowerShell as a powerful automation and scripting language primarily used in Windows-based environments to manage systems, applications, and databases. In a database context, PowerShell enables administrators to automate repetitive tasks, execute administrative commands, and interact with databases programmatically through scripted workflows.
PowerShell is commonly used by database administrators to perform tasks such as running scheduled queries, managing database services, monitoring performance metrics, automating backups and restores, and handling user or permission management. Its strength lies in scripting and orchestration rather than providing a specific database connectivity protocol. Through scripts, PowerShell can leverage database providers, command-line utilities, or modules to connect to and manage database systems efficiently.
Option A is incorrect because Python database connectivity is handled through Python libraries and drivers, not PowerShell. Option B is also incorrect because PowerShell is not designed to enable Linux systems to connect to databases; while PowerShell Core is cross-platform, its function is still automation and scripting, not system-level database connectivity. Option C is misleading because ODBC is a database connectivity standard that can be used by many tools and languages, but PowerShell itself is not defined by its use of ODBC. While PowerShell scripts can invoke ODBC connections, that is not its primary or defining function.
CompTIA DataSys+ emphasizes the role of automation tools in database operations. PowerShell fits squarely into this category by enabling DBAs to create repeatable, auditable, and scalable scripts that interact with databases and supporting infrastructure. Its use improves operational efficiency, reduces manual errors, and supports consistent database administration practices.
Therefore, the best and most accurate description of PowerShell's function in a database environment is allowing connections and management operations through scripts, making D the correct answer.

NEW QUESTION # 109
A database administrator needs to ensure database backups are occurring on a daily basis and at scheduled times. Which of the following actions should the administrator take?

- A. Review the backup media.
- B. Query the database to observe entries.
- C. Review the server logs for entries.
- D. Check the database schema.

Answer: C

Explanation:
The action that the administrator should take is to review the server logs for entries. Server logs are files that record the events and activities that occur on a server, such as database backups, errors, warnings, or failures.
By reviewing the server logs, the administrator can verify that the database backups are occurring on a daily basis and at scheduled times, and also identify any issues or anomalies that may affect the backup process or the backup quality. The other options are either not relevant or not sufficient for this task. For example, querying the database to observe entries may not show the backup status or frequency, checking the database schema may not reflect the backup schedule or policy, and reviewing the backup media may not indicate the backup time or duration. References: CompTIA DataSys+ Course Outline, Domain 5.0 Business Continuity, Objective 5.2 Given a scenario, implement backup and restoration of database management systems.

NEW QUESTION # 110
Which of the following NFs is considered the most preferable for relational database design?

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

Answer: A

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. References: 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 # 111
A database administrator needs to ensure that a newly installed corporate business intelligence application can access the company's transactional dat a. Which of the following tasks should the administrator perform first?

- A. Create a new service account exclusively for the business intelligence application.
- B. Build a separate data warehouse customized to the business intelligence application's specifications.
- C. Open a new port on the database server exclusively for the business intelligence application.
- D. Send the business intelligence administrator the approved TNS names file to configure the data mapping.

- E. Set up a nightly FTP data transfer from the database server to the business intelligence application server.

Answer: A

Explanation:
The first task that the administrator should perform is to create a new service account exclusively for the business intelligence application. This will ensure that the application has the appropriate permissions and credentials to access the company's transactional data. The other options are either unnecessary, inefficient, or insecure. For example, building a separate data warehouse would require additional resources and time, setting up a nightly FTP data transfer would expose the data to potential breaches, sending the TNS names file would not guarantee that the application can connect to the database, and opening a new port on the database server would create a vulnerability for attackers. Reference: CompTIA DataSys+ Course Outline, Domain 2.0 Database Deployment, Objective 2.1 Given a scenario, install and configure database software and tools.

NEW QUESTION # 112

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