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1. A database administrator is conducting a stress test and providing feedback to a team that is

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CompTIA DataSys+ Certification Exam Sample Questions (Q19-Q24):

NEW QUESTION # 19

A database administrator needs to provide access to data from two different tables to multiple group users in order to facilitate ongoing reporting. However, some columns in each table are restricted, and users should not be able to see the values in these columns.

Which of the following is the best action for the administrator to take?

- A. Create a csv export.
- B. Create a trigger.
- C. Create a stored procedure.
- **D. Create a view.**

Answer: D

Explanation:

The best action for the administrator to take is to create a view. A view is a virtual table that shows a subset of data from one or more tables. The administrator can use a view to provide access to data from two different tables to multiple group users without exposing the restricted columns. The view can also simplify the queries and improve the performance of the reporting process. The other options are either not suitable for this scenario or do not address the requirement of hiding some columns from users. For example, creating a stored procedure would require additional coding and execution, creating a csv export would create a static file that may not reflect the latest data changes, and creating a trigger would perform an action in response to an event rather than provide access to data. 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 # 20

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

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

Answer: B

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 # 21

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

Answer: A

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.

NEW QUESTION # 22

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. 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 # 23

A database administrator is migrating the information in a legacy table to a newer table. Both tables contain the same columns, and some of the data may overlap.

Which of the following SQL commands should the administrator use to ensure that records from the two tables are not duplicated?

- A. INTERSECT
- B. JOIN
- C. UNION
- D. CROSS JOIN

Answer: C

Explanation:

The SQL command that the administrator should use to ensure that records from the two tables are not duplicated is option C. This command uses the UNION clause to combine the records from the legacy table and the newer table into a single result set. The UNION clause also eliminates any duplicate records that may exist in both tables, and sorts the result by default. The other options

either do not produce the desired result or have syntax errors. For example, option B would join the records from the two tables based on a common column, but not remove any duplicates; option C would return only the records that are common to both tables, but not the ones that are unique to each table; option D would produce a Cartesian product of the records from the two tables, which would increase the number of duplicates.

NEW QUESTION # 24

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