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Question 1

Question Type: MultipleChoice

A database administrator has been asked to assign a user the ability to view a data set. Which of the following practices best describes this request?

Options:

- A- Access control
- B- Security audit
- C Database audit
- D- Password policy implementation

Answer:

A

Explanation:

The practice that best describes this request is access control. Access control is a process that regulates who can access what data in a system based on predefined rules or policies. Access control helps protect data from unauthorized or inappropriate access or

modification by granting or denying permissions or privileges to users or groups based on their roles or identities. By applying access control, the database administrator can assign a user the ability to view a data set without allowing them to change or delete it. The other options are either different practices or not related to this request. For example, security audit is a process that evaluates the security level of a system by identifying vulnerabilities or risks; database audit is a process that monitors and records the activities or events that occur on a database; password policy implementation is a process that defines and enforces rules or standards for creating and managing passwords. Reference: CompTIA DataSys+ Course Outline, Domain 4.0 Data and Database Security, Objective 4.2 Given a scenario, implement security controls for databases.

Question 2

Question Type: MultipleChoice

A database administrator needs a tool to document and explain the relationships between data in an organization's database. Which of the following is the best tool to accomplish this task?

Options:

A- Text editor

B- UML editor

C- Word processor

D- SQL query

Answer:

B

Explanation:

The best tool for the database administrator to document and explain the relationships between data in an organization's database is a UML editor. A UML editor 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 document and explain the relationships between data in an organization's database by creating entity relationship diagrams (ERDs), which are graphical representations of the entities (tables), attributes (columns), and relationships (constraints) in a database. A UML editor can help the administrator to document and explain the relationships between data 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 text editor is a software application that allows users to create and edit plain text files; a word processor is a software application that allows users to create and edit text documents; an SQL query is a statement that performs an operation on a database using Structured Query Language (SQL).Reference:CompTIA DataSys+ Course Outline, Domain 2.0 Database Deployment, Objective 2.2 Given a scenario, create database objects using scripting and programming languages.

Question 3

Question Type: MultipleChoice

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

Options:

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

Answer:

C

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).Reference:CompTIA DataSys+ Course Outline, Domain 2.0 Database Deployment, Objective 2.2 Given a scenario, create database objects using scripting and programming languages.

Question 4

Question Type: MultipleChoice

A database's daily backup failed. Previous backups were completed successfully. Which of the following should the database administrator examine first to troubleshoot the issue?

Options:

- A- CPU usage
- B- Disk space
- C- Event log
- D- OS performance

Answer:

C

Explanation:

The first thing that the database administrator should examine to troubleshoot the issue is the event log. The event log is a file that records the events and activities that occur on a system, such as database backups, errors, warnings, or failures. By examining the event log, the administrator can identify the cause and time of the backup failure, and also check for any other issues or anomalies that may affect the backup process or the backup quality. The other options are either not relevant or not the first priority for this task. For example, CPU usage, disk space, and OS performance may affect the performance or availability of the system, but not necessarily cause the backup failure; moreover, these factors can be checked after reviewing the event log for more information. Reference: CompTIA DataSys+ Course Outline, Domain 5.0 Business Continuity, Objective 5.2 Given a scenario, implement backup and restoration of database management systems.

Question 5

Question Type: MultipleChoice

A database administrator needs to ensure continuous availability of a database in case the server fails. Which of the following should the administrator implement to ensure high availability of the database?

Options:

- A- ETL
- B- Replication
- C- Database dumping
- D- Backup and restore

Answer:

B

Explanation:

The option that the administrator should implement to ensure high availability of the database is replication. Replication is a process that copies and synchronizes data from one database server (the primary or source) to one or more database servers (the secondary or target). Replication helps ensure high availability of the database by providing redundancy, fault tolerance, and load balancing. If the primary server fails, the secondary server can take over and continue to serve the data without interruption or data loss. The other options are either not related or not suitable for this purpose. For example, ETL is a process that extracts, transforms, and loads data from one source to another for analysis or reporting purposes; database dumping is a process that exports the entire content of a database to a file for backup or migration purposes; backup and restore is a process that copies and recovers data from a backup device or media in case of a disaster or corruption. Reference: CompTIA DataSys+ Course Outline, Domain 5.0 Business Continuity, Objective 5.3 Given a scenario, implement replication of database management systems.

Question 6

Question Type: MultipleChoice

Which of the following can be used to protect physical database appliances from damage in a server room? (Choose two.)

Options:

- A- Biometric access systems
- B- Database control systems
- C- Fire suppression systems
- D- Camera systems
- E- Key card systems
- F- Cooling systems

Answer:

C, F

Explanation:

The two options that can be used to protect physical database appliances from damage in a server room are fire suppression systems and cooling systems. Fire suppression systems are systems that detect and extinguish fires in a server room using water, gas, foam, or other agents. Fire suppression systems help prevent damage to physical database appliances caused by fire hazards such as overheating, electrical faults, or flammable materials. Cooling systems are systems that regulate the temperature and humidity in a server room using fans, air conditioners, chillers, or other devices. Cooling systems help prevent damage to physical database appliances caused by excessive heat or moisture that may affect their performance or lifespan. The other options are either not related or not effective for this purpose. For example, biometric access systems, camera systems, and key card systems are systems that control the access to a server room using fingerprints, facial recognition, video surveillance, or magnetic cards; these systems help prevent unauthorized entry or theft of physical database appliances, but not damage caused by environmental factors; database control systems are systems that manage the functionality and security of databases using software tools or commands; these systems help protect logical database appliances from errors or attacks, but not physical damage caused by environmental factors. Reference: CompTIA DataSys+ Course Outline, Domain 5.0 Business Continuity, Objective 5.4 Given a scenario, implement disaster recovery methods.

Question 7

Question Type: MultipleChoice

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?

Options:

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

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.

Question 8

Question Type: MultipleChoice

Which of the following is a potential issue raised by enterprise database users?

Options:

- A- The need for multiple views or windows into the same database
- B- The need to manage long transactions
- C- The need for concurrent access and multiuser updates
- D- The need to manually transfer records to paper

Answer:

C

Explanation:

A potential issue raised by enterprise database users is the need for concurrent access and multiuser updates. Concurrent access means that multiple users can access the same data at the same time, while multiuser updates mean that multiple users can modify the same data at the same time. These features are essential for enterprise database users who need to share and collaborate on data in

real time. However, they also pose challenges such as maintaining data consistency, preventing conflicts or errors, and ensuring transaction isolation and durability. The other options are either not issues or not specific to enterprise database users. For example, the need for multiple views or windows into the same database may be a preference or a convenience, but not an issue; the need to manage long transactions may be a challenge for any database user, not just enterprise ones; the need to manually transfer records to paper may be an outdated or inefficient practice, but not an issue. Reference: CompTIA DataSys+ Course Outline, Domain 1.0 Database Fundamentals, Objective 1.3 Given a scenario, identify common database issues.

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