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CompTIA DS0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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.

- Business Continuity: Finally, this topic covers the importance of disaster recovery techniques. Moreover, the topic explains backup and restore best practices and processes.

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CompTIA DataSys+ Certification Exam Sample Questions (Q42-Q47):

NEW QUESTION # 42

Which of the following is part of logical database infrastructure security?

- A. Biometric access
- B. Surveillance
- C. Perimeter network
- D. Cooling system

Answer: C

Explanation:

The option that is part of logical database infrastructure security is perimeter network. Perimeter network, also known as DMZ (Demilitarized Zone), is a network segment that lies between an internal network and an external network, such as the internet. Perimeter network provides an additional layer of security for the internal network by isolating and protecting the servers or services that are exposed to the external network, such as web servers, email servers, database servers, etc. Perimeter network also helps prevent unauthorized access or attacks from the external network to the internal network by using firewalls, routers, proxies, etc. The other options are either part of physical database infrastructure security or not related to database infrastructure security at all. For example, surveillance is a method of monitoring and recording physical activities or events in a location or resource; biometric access is a device that uses biological characteristics to control access to a physical location or resource; cooling system is a device or system that regulates the temperature and humidity of a location or resource. References: CompTIA DataSys+ Course Outline, Domain 4.0 Data and Database Security, Objective 4.1 Given a scenario, implement database infrastructure security.

NEW QUESTION # 43

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

- A. 3 NF
- B. 2NF
- C. 4 NF
- D. 1 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 # 44

Which of the following statements contains an error?

- A. Select* from employee where EmpId=90030
- B. Select EmpId from employee where EmpId=90030
- C. Select EmpId where EmpId=90030 and DeptId=34
- D. Select EmpId from employee

Answer: C

Explanation:

The statement that contains an error is option B. This statement is missing the FROM clause, which specifies the table or tables from which to retrieve data. The FROM clause is a mandatory clause in a SELECT statement, unless the statement uses a subquery or a set operator. The correct syntax for option B would be:

```
SELECT EmpId FROM employee WHERE EmpId=90030 AND DeptId=34 Copy
```

NEW QUESTION # 45

Which of the following would a database administrator monitor to gauge server health? (Choose two.)

- A. Transaction logs
- B. Firewall traffic
- C. Memory usage
- D. Domain controllers
- E. CPU usage
- F. Network sniffer

Answer: C,E

Explanation:

The two factors that the database administrator should monitor to gauge server health are CPU usage and memory usage. CPU usage is the percentage of time that the processor (CPU) of the server is busy executing instructions or processes. CPU usage indicates how much workload the server can handle and how fast it can process requests. High CPU usage may affect the performance or availability of the server and cause delays or errors. Memory usage is the amount of physical memory (RAM) or virtual memory (swap space) that the server uses to store data or run applications. Memory usage indicates how much space the server has to store temporary or intermediate data or results. High memory usage may affect the performance or availability of the server and cause swapping or paging. The other options are either not relevant or not direct indicators of server health. For example, transaction logs are files that record the changes made by transactions on the database; network sniffer is a tool that captures and analyzes network traffic; domain controllers are servers that manage user authentication and authorization in a network; firewall traffic is the amount of data that passes through a firewall device or software. Reference: CompTIA DataSys+ Course Outline, Domain 3.0 Database Management and Maintenance, Objective 3.2 Given a scenario, monitor database performance.

NEW QUESTION # 46

(Which of the following are ORM tools? Select two.)

- A. PHP
- B. Hibernate
- C. T-SQL
- D. PL/SQL

- E. XML
- F. Entity Framework

Answer: B,F

Explanation:

The correct answers are C. Entity Framework and E. Hibernate. CompTIA DataSys+ defines Object-Relational Mapping (ORM) tools as software frameworks that allow developers to interact with relational databases using object-oriented programming concepts instead of writing raw SQL queries. ORM tools map database tables to application objects, rows to object instances, and columns to object attributes, simplifying database access and improving developer productivity.

Entity Framework is a widely used ORM tool in the Microsoft ecosystem, commonly paired with .NET applications. It enables developers to define data models in code and allows the framework to automatically generate SQL queries, manage relationships, and handle CRUD (Create, Read, Update, Delete) operations.

DataSys+ highlights ORM tools like Entity Framework as a way to reduce repetitive SQL coding while maintaining consistency and abstraction between application logic and the database layer.

Hibernate is a popular ORM framework used primarily in Java-based applications. Similar to Entity Framework, Hibernate manages database interactions by mapping Java objects to relational database structures. It handles SQL generation, transaction management, and caching, making it a core example of an ORM solution referenced in DataSys+ learning objectives.

Option A, PL/SQL, and option D, T-SQL, are procedural SQL languages, not ORM tools. They are used to write stored procedures, functions, and scripts that execute directly within the database. Option B, XML, is a data format used for data representation and exchange, not for object-relational mapping. Option F, PHP, is a general-purpose programming language that can use ORM tools but is not itself an ORM framework.

CompTIA DataSys+ emphasizes understanding the distinction between database languages, programming languages, and abstraction frameworks like ORMs. Entity Framework and Hibernate clearly fit the definition of ORM tools by bridging object-oriented applications and relational databases.

Therefore, the correct and fully verified answers are C and E.

NEW QUESTION # 47

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