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CompTIA DataSys+ Certification Exam Sample Questions (Q113-Q118):

NEW QUESTION # 113

(Which of the following types of scripting can be executed on a web browser?)

- A. PowerShell
- B. Server-side
- C. Client-side
- D. Command-line

Answer: C

Explanation:

The correct answer is C. Client-side. CompTIA DataSys+ explains that client-side scripting refers to code that is executed directly within the user's web browser, rather than on a backend server or operating system shell. The most common and widely recognized client-side scripting language is JavaScript, which runs natively in modern web browsers and is used to enhance interactivity, validate input, and dynamically update content on web pages.

Client-side scripts execute after a web page is delivered to the user's browser. This allows for immediate feedback, such as form validation, dynamic content updates, and interactive user interfaces, without requiring a round trip to the server. DataSys+ highlights client-side scripting as an important concept when discussing web applications that interact with databases, particularly because improper client-side controls can introduce security risks if not reinforced by server-side validation.

Option A, server-side scripting, runs on the web server rather than in the browser. Examples include PHP, Python, Ruby, and server-side JavaScript (such as Node.js). These scripts handle tasks like database queries, authentication, and business logic and are never executed in the browser itself. Option B, PowerShell, is a scripting and automation language used primarily in Windows environments for system and database administration tasks and cannot run inside a web browser. Option D, command-line scripting, refers to scripts executed in a terminal or shell environment, not within a browser context.

CompTIA DataSys+ emphasizes the distinction between client-side and server-side execution models because of their impact on performance, security, and data handling. Understanding where code executes is critical for protecting databases from exposure and enforcing proper validation controls.

Therefore, the type of scripting that can be executed in a web browser is client-side scripting, making option C the correct and fully verified answer.

NEW QUESTION # 114

A server administrator wants to analyze a database server's disk throughput. Which of the following should the administrator measure?

- A. Latency
- **B. IOPS**
- C. RPM
- D. Reads

Answer: B

Explanation:

The factor that the administrator should measure to analyze a database server's disk throughput is IOPS. IOPS, or Input/Output Operations Per Second, is a metric that measures the number of read and write operations that a disk can perform in one second. IOPS indicates the performance or speed of a disk and how well it can handle multiple requests or transactions. Higher IOPS means higher disk throughput and lower latency. IOPS can be affected by various factors, such as disk type, size, speed, cache, RAID level, etc. The other options are either not related or not sufficient for this purpose. For example, RPM is not a valid acronym or metric; latency is the time delay between a request and a response; reads are the number of read operations performed by a disk.

NEW QUESTION # 115

A database administrator is concerned about transactions in case the system fails. Which of the following properties addresses this concern?

- A. Atomicity
- B. Consistency
- **C. Durability**
- D. Isolation

Answer: C

Explanation:

The property that addresses this concern is durability. Durability is one of the four properties (ACID) that ensure reliable transactions in a database system. Durability means that once a transaction has been committed, its effects are permanent and will not be lost in case of system failure, power outage, crash, etc.

Durability can be achieved by using techniques such as write-ahead logging, checkpoints, backup and recovery, etc. The other options are either not related or not specific to this concern. For example, isolation means that concurrent transactions do not interfere with each other and produce consistent results; atomicity means that a transaction is either executed as a whole or not at all; consistency means that a transaction preserves the validity and integrity of the data. References: CompTIA DataSys+ Course Outline, Domain 1.0 Database Fundamentals, Objective 1.3 Given a scenario, identify common database issues.

NEW QUESTION # 116

Which of the following resources is the best way to lock rows in SQL Server?

- A. TID
- B. PID
- C. SID
- **D. RID**

Answer: D

Explanation:

The resource that is the best way to lock rows in SQL Server is RID. RID, or Row Identifier, is an attribute that uniquely identifies each row in a heap table in SQL Server. A heap table is a table that does not have a clustered index, which means that the rows are not stored in any particular order. A RID consists of the file number, page number, and slot number of the row in the database. A RID can be used to lock rows in SQL Server to prevent concurrent access or modification by other transactions or users. A RID lock is a type of lock that locks a single row using its RID. A RID lock can be applied using the HOLDLOCK or XLOCK hints in a SELECT statement. The other options are either not related or not effective for this purpose. For example, TID, or Transaction Identifier, is an attribute that uniquely identifies each transaction in a database; SID, or Security Identifier, is an attribute that uniquely identifies each user or group in a Windows system; PID, or Process Identifier, is an attribute that uniquely identifies each process in an operating system. References: CompTIA DataSys+ Course Outline, Domain 3.0 Database Management and Maintenance, Objective 3.3 Given a scenario, implement database concurrency methods.

NEW QUESTION # 117

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?

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

Answer: B

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. References: CompTIA DataSys+ Course Outline, Domain 4.0 Data and Database Security, Objective 4.2 Given a scenario, implement security controls for databases.

NEW QUESTION # 118

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