Perfect Data-Management-Foundations Latest Mock Exam, Ensure to pass the Data-Management-Foundations Exam

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Living in such a world where competitiveness is a necessity that can distinguish you from others, every one of us is trying our best to improve ourselves in every way. It has been widely recognized that the Data-Management-Foundations exam can better equip us with a newly gained personal skill, which is crucial to individual self-improvement in today's computer era. With the certified advantage admitted by the test Data-Management-Foundations Certification, you will have the competitive edge to get a favorable job in the global market. Here our Data-Management-Foundations exam preparation materials are tailor-designed for you to pass the Data-Management-Foundations exam.

WGU Data-Management-Foundations Exam Syllabus Topics:

Topic	Details

Topic 1	• Attributes of databases tables and SQL commands: This section of the exam measures skills of Database Developers and explains the main features of databases and tables, along with basic SQL commands. It focuses on understanding rows, columns, data types, and how common SQL operations interact with these elements.
Topic 2	• Defining primary and foreign keys for data normalization: This section of the exam measures skills of Database Developers and explains how to identify and define primary and foreign keys. It focuses on using keys to connect tables, enforce relationships, and support normalized database design.
Topic 3	• Introduction to conceptual logical and physical data models: This section of the exam measures skills of Data Analysts and introduces the basic ideas behind conceptual, logical, and physical data models. It focuses on understanding how each model represents data at a different level, from high level business view to detailed database structure.
Topic 4	• Running SQL queries to create and manipulate data: This section of the exam measures skills of Data Analysts and focuses on using SQL statements to build and change data structures and records. It includes creating tables and running queries to insert, update, delete, and retrieve data.

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WGU Data Management – Foundations Exam Sample Questions (Q49-Q54):

NEW QUESTION # 49
Which SQL command uses the correct syntax to add a new employee "John Doe" to the Employee table?

- A. INSERT Employee (Name) Values ("John Doe");
- B. INSERT Employee { "John Doe" };
- C. INSERT INTO Employee (Name) VALUES ("John Doe");
- D. INSERT INTO Employee ("John Doe");

Answer: C

Explanation:
Thecorrect syntaxfor inserting a new row into a table follows this structure:
Standard SQL INSERT Syntax:
sql
INSERT INTO TableName (Column1, Column2, ...)
VALUES (Value1, Value2, ...);
For this scenario:
sql
INSERT INTO Employee (Name) VALUES ('John Doe');
Why Other Options Are Incorrect:
* Option A (Incorrect):Uses incorrect syntax { ... }, which isnot valid SQL syntax.
* Option C (Incorrect):Does not specify the column name, whichcauses an error.
* Option D (Incorrect):Misses theINTOkeyword, which is required in standard SQL.
Thus, the correct syntax isOption B, ensuring aproperly formatted insert statement.

NEW QUESTION # 50
What is the role of the database administrator?

- A. The database administrator determines the format of each data element and the overall database structure.
- B. The database administrator develops computer programs that utilize a database.
- C. The database administrator is a consumer of data in a database.
- D. The database administrator is responsible for securing the database system against unauthorized users.

Answer: D

Explanation:
ADatabase Administrator (DBA)is responsible for the management, security, and performance of a database system. This includes controlling access to data, ensuring database integrity, optimizing performance, managing backups, and protecting the system from unauthorized access.
* Option A (Incorrect):A DBA is not just a consumer of data but is primarily responsible for the database's management.
* Option B (Correct):Security is one of the key responsibilities of a DBA, including enforcing user access controls and implementing encryption and authentication mechanisms.
* Option C (Incorrect):While DBAs work with data structures, it is typically the role of adata architect ordatabase designerto define data formats and schema structures.
* Option D (Incorrect):Developing application programs that interact with the database is typically the role ofsoftware developersordatabase programmers, not DBAs.

NEW QUESTION # 51
What is the role of a query processor in the database system architecture?

- A. It translates instructions into file system commands.
- B. It writes log records before applying changes to the database.
- C. It sends results back to the application that requested the queries.
- D. It uses information from the catalog to perform query optimization.

Answer: D

Explanation:
Aquery processoris responsible forquery optimization and executionin a database management system (DBMS). It analyzes SQL statements, optimizes execution plans, and ensures efficient retrieval of data.
* Option A (Correct):Thequery processoroptimizes queries by analyzing metadata from thesystem catalogto determine the best execution strategy.
* Option B (Incorrect):Logging transactionsbefore applying changes is the responsibility of the transaction manager.
* Option C (Incorrect):Translating instructions intofile system commandsis handled by thestorage manager, not the query processor.
* Option D (Incorrect):While the query processor helps retrieve results, thedatabaseengineandAPI layerare responsible for returning results to applications.

NEW QUESTION # 52
What is the role of the transaction manager within the database system architecture?

- A. The transaction manager is composed of a query processor, storage manager, transaction manager, log, and catalog.
- B. The transaction manager translates the query processor instructions into filesystem commands and uses an index to quickly locate the requested data.
- C. The transaction manager logs insert, update, and delete queries, and the result is sent back to the application.
- D. The transaction manager uses information from the catalog to perform query optimization.

Answer: C

NEW QUESTION # 53
Which term defines a column, or group of columns, that refers to a primary key in a different table?

- A. Composite key
- B. Simple key
- C. Foreign key
- D. Super key

Answer: C

Explanation:
Aforeign keyis a column (or a set of columns) that establishes arelationship between two tablesby referencing theprimary key of another table.
Example Usage:
sql
CREATE TABLE Departments (
DeptID INT PRIMARY KEY,
DeptName VARCHAR(50)
);
CREATE TABLE Employees (
EmpID INT PRIMARY KEY,
Name VARCHAR(50),
DeptID INT,
FOREIGN KEY (DeptID) REFERENCES Departments(DeptID)
);
* DeptID in Employees is a foreign key, referencing DeptID in Departments.
* Ensuresreferential integrity# DeptID in Employeesmust existin Departments.
Why Other Options Are Incorrect:
* Option A (Super key) (Incorrect):Asuper keyis any set of columns that uniquely identifies a row, but itdoes not reference another table.
* Option B (Simple key) (Incorrect):Asimple keyis asingle-column primary key, not a reference to another table.
* Option C (Composite key) (Incorrect):Acomposite keyconsists ofmultiple columnsbut does not necessarily reference another table.
Thus, the correct answer isForeign key, as it establishes aconnection between two tables.

NEW QUESTION # 54

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