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WGU - Data Management Foundations

Exam 2025 Questions and Answers

100% Pass

Ad hoc query - ✓✓A spur-of-the-moment question.

Analytical database - ✓✓A database focused primarily on storing historical data and business metrics used for tactical or strategic decision making.

Centralized database - ✓✓A database located at a single site.

Cloud database - ✓✓A database that is created and maintained using cloud services, such as Azure or AWS.

Data - ✓✓Raw facts, or facts that have not yet been processed to reveal their meaning to the end user.

Data anomaly - ✓✓A data abnormality in which inconsistent changes have been made to a database. For example, an employee moves, but the address change is not corrected in all files in the database.

Data dependence - ✓✓A data condition in which data representation and manipulation are dependent on the physical data storage characteristics.

Data dictionary - ✓✓A DBMS component that stores metadata - data about data. Thus, the data dictionary contains the data definition as well as their characteristics and

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During the process of using our Data-Management-Foundations study materials, you focus yourself on the exam bank within the given time, and we will refer to the real exam time to set your Data-Management-Foundations practice time, which will make you feel the actual exam environment and build up confidence. Not only that you can get to know the real questions and answers of the Data-Management-Foundations Exam, but also you can adjust yourself to the real pace of the Data-Management-Foundations exam.

WGU Data-Management-Foundations Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> 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 2	<ul style="list-style-type: none"> 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 3	<ul style="list-style-type: none"> 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.

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Customized Data-Management-Foundations Lab Simulation, Certification Data-Management-Foundations Sample Questions

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WGU Data Management – Foundations Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

Which operator defines the field that the index is using in a CREATE TABLE statement?

- A. ON
- B. IN
- C. UNIQUE
- D. CHECK

Answer: A

Explanation:

The ON keyword specifies the field used by an index when creating it in SQL.

Example Usage:

```
sql
CREATE INDEX idx_employee_name
ON Employees(Name);
```

* Here, an index idx_employee_name is created on the Name column.

* This improves query performance when filtering by Name.

Why Other Options Are Incorrect:

* Option B (IN) (Incorrect): Used in queries to match values in a set, not for indexing.

* Option C (UNIQUE) (Incorrect): Ensures a column has unique values but does not define an index field.

* Option D (CHECK) (Incorrect): Used for validating column values, not for indexing.

Thus, the correct answer is ON, as it defines the column on which an index is created.

NEW QUESTION # 19

Which operation finds an entry containing a search value by repeatedly splitting the index in two?

- A. Table scan
- B. Fan-out

- C. Index scan
- D. **Binary search**

Answer: D

Explanation:

Binary search is an algorithm that finds a search value by repeatedly dividing the search space into two halves. It is commonly used in indexed searches.

Example Usage in Databases:

- * B-Trees and B+ Trees (used in database indexing) apply binary search to navigate the index efficiently.
- * If searching for ID = 50 in a sorted list of IDs, binary search:
 - * Splits the list into two halves.
 - * Checks the middle value.
 - * Eliminates half of the dataset.
 - * Repeats until the value is found.

Why Other Options Are Incorrect:

- * Option A (Table scan) (Incorrect): Reads every row, much slower than binary search.
- * Option C (Index scan) (Incorrect): Uses indexes but does not necessarily apply binary search.
- * Option D (Fan-out) (Incorrect): Describes branching in B-Trees, not searching.

Thus, the correct answer is **Binary search**, as it repeatedly splits the index in two.

NEW QUESTION # 20

Which keyword can be used as a clause in an ALTER TABLE statement?

- A. STOP
- B. AGGREGATE
- C. **CHANGE**
- D. DELETE

Answer: C

Explanation:

The ALTER TABLE statement is used to modify an existing database table structure. One common clause is **CHANGE**, which allows renaming a column and modifying its data type.

Example:

sql

ALTER TABLE Employees CHANGE COLUMN OldName NewName VARCHAR(50);

- * Option A (Incorrect): DELETE is used to remove rows, not alter table structure.
- * Option B (Correct): CHANGE is a valid clause for renaming and modifying columns in MySQL and some other databases.
- * Option C (Incorrect): STOP is not a valid SQL keyword for altering tables.
- * Option D (Incorrect): AGGREGATE refers to functions like SUM() and AVG(), not table alterations.

NEW QUESTION # 21

Which database operation locates the needed table blocks?

- A. **Index scan**
- B. Table scan
- C. Fan-out
- D. Binary search

Answer: A

Explanation:

An index scan is a database operation that quickly locates table blocks using an index rather than scanning the entire table. It significantly improves query performance.

Example Usage:

sql

SELECT * FROM Employees WHERE EmployeeID = 105;

* If EmployeeID is indexed, the database uses an index scan to quickly find the record.

Why Other Options Are Incorrect:

- * Option A (Binary search) (Incorrect): A searching algorithm, but not a database operation.
- * Option B (Table scan) (Incorrect): Scans the entire table, which is slower than an index scan.
- * Option C (Fan-out) (Incorrect): Refers to branching in B-Trees but does not locate table blocks directly.

Thus, the correct answer is Index scan, as it efficiently locates table blocks.

NEW QUESTION # 22

What is the role of a query processor in the database system architecture?

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

Answer: C

Explanation:

A query processor is responsible for query optimization and execution in a database management system (DBMS). It analyzes SQL statements, optimizes execution plans, and ensures efficient retrieval of data.

- * Option A (Correct): The query processor optimizes queries by analyzing metadata from the system catalog to determine the best execution strategy.
- * Option B (Incorrect): Logging transactions before applying changes is the responsibility of the transaction manager.
- * Option C (Incorrect): Translating instructions into file system commands is handled by the storage manager, not the query processor.
- * Option D (Incorrect): While the query processor helps retrieve results, the database engine and API layer are responsible for returning results to applications.

NEW QUESTION # 23

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