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D426 - Data Management Foundations Study Guide

INTRODUCTION TO DATABASES

1.1 Database Basics

- Data - numeric, textual, visual, or audio information that describes real-world systems.
 - Data is collected and processed to aid in a variety of tasks, such as:
 - Forecasting weather
 - Analyzing financial investments
 - Tracking the global spread of pandemics
 - Data varies in several important ways:
 - Scope - the amount of data produced and collected may vary.
 - Format - data may be produced as numbers, text, images, audio, and/or video.
 - Access - some data sources are private while others are made publicly online.
 - Data today is digital - encoded as zeroes and one's on electronic and magnetic media.
 - Data relationships are often represented in a graphical format, called a visualization.
- Database - a collection of data in a structured format.
 - The database structure ensures that similar data is stored in a standardized manner.
- Database System - AKA Database Management System (DBS) - software that reads and writes data in a database.
 - Database systems ensure data is secure, internally consistent, and available at all times.
 - These functions are challenging for large databases with many users, making database systems complex.
- Query - a request to retrieve or change data in a database.
- Query Language - a specialized programming language designed specifically for database systems.
 - Query languages read and write data efficiently, and differ significantly from general-purpose languages such as Python, Java, and C++.
- Database Application - software that helps business users interact with database systems.
 - Programmers write applications to simplify the user experience and ensure data access is efficient and secure.
 - Database software is organized in layers.
 - Applications interact with a query language on one layer, and a query language interacts with a database system on another layer.
- Information Management System - a software application that manages corporate data for a specific business function

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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"> 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.
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.

WGU Data Management – Foundations Exam Sample Questions (Q56-Q61):

NEW QUESTION # 56

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 translates instructions into file system commands.
- D. It uses information from the catalog to perform query optimization.**

Answer: D

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 # 57

Which product has an open-source license in addition to having a non-relational system?

- A. SQL Server
- B. MongoDB**
- C. MySQL
- D. Oracle Database

Answer: B

Explanation:

MongoDB is a NoSQL (non-relational) database that is open-source and supports document-oriented storage. It allows for flexible schema design and is optimized for big data applications.

* Option A (Correct): MongoDB is a NoSQL database with an open-source AGPL license, making it both free to use and non-

relational.

- * Option B (Incorrect): SQL Server is a relational database (RDBMS) developed by Microsoft and is not open-source.
- * Option C (Incorrect): MySQL is open-source but is a relational database (RDBMS), not a NoSQL system.
- * Option D (Incorrect): Oracle Database is relational and proprietary (not open-source).

NEW QUESTION # 58

What is the first step of the analysis phase for designing a database?

- **A. Identify entities**
- B. Implement attributes
- C. Determine cardinality
- D. Draw an entity-relationship (ER) diagram

Answer: A

Explanation:

The first step in database analysis is identifying entities, which are the real-world objects that need to be represented in the database.

Example Usage:

* In a school system, the main entities could be:

Students, Courses, Instructors

Why Other Options Are Incorrect:

- * Option A (Determine cardinality) (Incorrect): Determining relationships comes after identifying entities.
- * Option C (Draw an ER diagram) (Incorrect): ER diagrams visualize entities but are not the first step.
- * Option D (Implement attributes) (Incorrect): Attributes are defined after entities are identified.

Thus, the correct answer is Identify entities, as entities form the foundation of the database model.

NEW QUESTION # 59

Which keyword or clause indicates the desired sequence when displaying a set of records returned from a SELECT statement?

- A. LIKE
- B. DISTINCT
- **C. ORDER BY**
- D. BETWEEN

Answer: C

Explanation:

The ORDER BY clause in SQL is used to sort query results in ascending (ASC) or descending (DESC) order.

Example Usage:

sql

SELECT Name, Salary FROM Employees ORDER BY Salary DESC;

* This retrieves all employees, sorted by salary in descending order.

Why Other Options Are Incorrect:

- * Option A (BETWEEN) (Incorrect): Used for filtering ranges but does not order results.
- * Option B (DISTINCT) (Incorrect): Removes duplicate rows but does not control order.
- * Option D (LIKE) (Incorrect): Used for pattern matching, not sorting.

Thus, ORDER BY is the correct choice for defining the sequence of query results.

NEW QUESTION # 60

Which function measures a numeric value's distance from 0?

- A. FROM
- B. LOWER
- **C. ABS**
- D. CONCAT

Answer: C

Explanation:

The ABS() function in SQL returns the absolute value of a given number, effectively measuring its distance from zero.

Example Usage:

sql

```
SELECT ABS(-50), ABS(50);
```

Result:

```
50 | 50
```

* This function ensures that numbers are always positive, regardless of their original sign.

Why Other Options Are Incorrect:

- * Option A (CONCAT) (Incorrect): Used to combine strings (not numbers).
- * Option B (LOWER) (Incorrect): Converts text to lowercase, not numerical operations.
- * Option C (FROM) (Incorrect): Part of SELECT FROM queries, not a function.

Thus, the correct choice is ABS(), which computes the absolute value of a number.

NEW QUESTION # 61

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