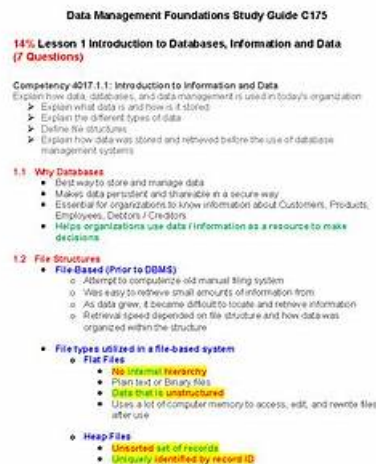


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## WGU Data-Management-Foundations Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Normalizing relational databases: This section of the exam measures skills of Data Analysts and covers organizing data using normalization steps. It focuses on reducing redundancy, splitting data into related tables, and improving consistency in a relational database.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>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.</li></ul>

## WGU Data Management – Foundations Exam Sample Questions (Q45-Q50):

### NEW QUESTION # 45

Which keyword is used to introduce a limiter in a SELECT statement?

- A. INTO
- B. DROP
- C. FROM
- **D. WHERE**

**Answer: D**

Explanation:

The WHERE clause is used in SQL SELECT statements to limit the number of rows that match a specific condition. It helps filter data based on given criteria before retrieving the results.

Example Usage:

```
sql
```

```
SELECT *
```

```
FROM Employees
```

```
WHERE Salary > 50000;
```

\* This query limits the result set to employees whose salary is greater than 50,000.

Why Other Options Are Incorrect:

\* Option A (FROM) (Incorrect): Specifies the table from which data is retrieved but does not limit results.

\* Option B (DROP) (Incorrect): Used for deleting tables, databases, or views, not filtering rows.

\* Option C (INTO) (Incorrect): Used in statements like INSERT INTO or SELECT INTO, which do not filter results.

Thus, WHERE is the correct keyword for applying a limiter in a SELECT statement.

### NEW QUESTION # 46

Which clause or statement in a CREATE statement ensures a certain range of data?

- A. WHERE
- **B. CHECK**
- C. SET
- D. FROM

**Answer: B**

Explanation:

The CHECK constraint is used in SQL to enforce rules on a column's values. It ensures that data inserted into a table meets specified conditions, such as range restrictions or logical rules.

Example Usage:

sql

```
CREATE TABLE Employees (  
  ID INT PRIMARY KEY,  
  Name VARCHAR(50),  
  Salary INT CHECK (Salary BETWEEN 30000 AND 150000)  
);
```

\* This constraint ensures that salary values fall between 30,000 and 150,000.

\* If an INSERT or UPDATE statement tries to set Salary = 20000, it fails because it does not meet the CHECK condition.

Why Other Options Are Incorrect:

\* Option B (FROM) (Incorrect): Used in SELECT statements, not for constraints.

\* Option C (WHERE) (Incorrect): Filters rows in queries but does not enforce constraints.

\* Option D (SET) (Incorrect): Used for updating records (UPDATE table\_name SET column = value) but not for defining constraints.

Thus, CHECK is the correct answer, as it ensures that column values remain within an expected range.

#### NEW QUESTION # 47

Which capability should databases maintain to simplify the use of SQL with a general-purpose language?

- A. The ability to reverse results if needed
- **B. The use of an application programming interface**
- C. The storage manager to interpret low-level file-system commands
- D. The query processor to deliver results

**Answer: B**

Explanation:

Databases need to support Application Programming Interfaces (APIs) to enable seamless integration with general-purpose programming languages like Python, Java, and C#. APIs like ODBC (Open Database Connectivity) and JDBC (Java Database Connectivity) allow applications to interact with databases without requiring complex SQL commands.

\* Option A (Incorrect): The storage manager is responsible for managing low-level file system operations, but it does not simplify SQL integration with programming languages.

\* Option B (Incorrect): The ability to reverse results (e.g., using ORDER BY DESC) is a SQL feature but is unrelated to integration with programming languages.

\* Option C (Incorrect): The query processor optimizes and executes SQL queries but does not provide an interface for application development.

\* Option D (Correct): APIs allow databases to be accessed easily from different programming environments, simplifying integration.

#### NEW QUESTION # 48

Which keyword combines INSERTS, UPDATES, and DELETES operations into a single statement?

- **A. MERGE**
- B. JOIN
- C. INTO
- D. DROP

**Answer: A**

Explanation:

The MERGE statement, also known as UPSERT, combines INSERT, UPDATE, and DELETE operations into a single statement based on a given condition. It is commonly used in data warehouses and large-scale databases.

Example Usage:

sql

```
MERGE INTO Employees AS Target
```

USING NewEmployees AS Source

ON Target.ID = Source.ID

WHEN MATCHED THEN

UPDATE SET Target.Salary = Source.Salary

WHEN NOT MATCHED THEN

INSERT (ID, Name, Salary) VALUES (Source.ID, Source.Name, Source.Salary);

\* If a match is found, the UPDATE clause modifies the existing record.

\* If no match is found, the INSERT clause adds a new record.

Why Other Options Are Incorrect:

\* Option A (INTO) (Incorrect): Used in INSERT INTO, but does not combine operations.

\* Option B (JOIN) (Incorrect): Used to combine rows from multiple tables, but not for merging data.

\* Option D (DROP) (Incorrect): Deletes database objects like tables, views, and indexes, but does not merge data.

Thus, the correct answer is MERGE, as it combines inserts, updates, and deletes into a single operation.

### NEW QUESTION # 49

Which primary key values consist of a single field only?

- A. Simple
- B. Meaningless
- C. Stable
- D. Partition

**Answer: A**

Explanation:

A simple primary key consists of only one column that uniquely identifies each row in a table.

Example Usage:

sql

```
CREATE TABLE Students (  
  StudentID INT PRIMARY KEY,  
  Name VARCHAR(50)  
);
```

\* StudentID is a simple primary key because it consists of only one field.

Why Other Options Are Incorrect:

\* Option B (Partition) (Incorrect): Refers to partitioned tables, which divide data for performance reasons but are not related to primary keys.

\* Option C (Stable) (Incorrect): This is not a recognized term in database keys.

\* Option D (Meaningless) (Incorrect): Primary keys are often meaningless (e.g., auto-incremented IDs), but this is not a term used to describe their structure.

Thus, the correct answer is Simple, as a single-field primary key is referred to as a simple primary key.

### NEW QUESTION # 50

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