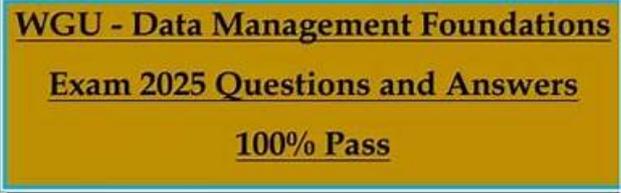


# Free PDF Quiz Professional WGU - Data-Management-Foundations - WGU Data Management–Foundations Exam Valid Exam Pdf



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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1

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### WGU Data Management – Foundations Exam Sample Questions (Q57-Q62):

#### NEW QUESTION # 57

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

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

**Answer: C**

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 an 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 # 58

How can a primary key constraint be added after the table is created?

- A. By using an ALTER clause
- B. By using an INSERT INTO clause
- C. By using the CREATE TABLE statement
- D. By using an UPDATE clause

**Answer: A**

Explanation:

To add a primary key constraint after table creation, we use the ALTER TABLE statement.

Example Usage:

```
sql
```

```
ALTER TABLE Employees
```

```
ADD CONSTRAINT PK_Employees PRIMARY KEY (EmpID);
```

\* This adds a primary key to the EmpID column after the table was created.

Why Other Options Are Incorrect:

- \* Option B (CREATE TABLE) (Incorrect): Used for defining constraints during table creation, not after.
  - \* Option C (UPDATE) (Incorrect): Modifies row values, not constraints.
  - \* Option D (INSERT INTO) (Incorrect): Used to add data to a table, not modify constraints.
- Thus, the correct answer is ALTER TABLE, as it modifies table structure to add a primary key constraint.

### NEW QUESTION # 59

Which constraint propagates primary key changes to foreign keys?

- A. SET DEFAULT
- B. SET NULL
- C. RESTRICT
- **D. CASCADE**

**Answer: D**

Explanation:

The CASCADE constraint ensures that updates or deletions in the primary key table automatically reflect in the foreign key 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) ON UPDATE CASCADE ON DELETE CASCADE );
```

\* If DeptID changes in Departments, it automatically updates in Employees.

\* If a DeptID is deleted, all employees in that department are also deleted.

Why Other Options Are Incorrect:

\* Option A (SET DEFAULT) (Incorrect): Sets foreign key values to a default value, rather than propagating changes.

\* Option B (SET NULL) (Incorrect): When the referenced key is deleted, dependent records are set to NULL instead of being updated/deleted.

\* Option C (RESTRICT) (Incorrect): Prevents deletion of a referenced row if dependent foreign key rows exist.

Thus, the correct answer is CASCADE, as it propagates primary key changes to dependent foreign keys.

### NEW QUESTION # 60

Which type of join is demonstrated by the following query?

```
sql
SELECT *
FROM Make, Model
WHERE Make.ModelID = Model.ID;
```

- A. NON-EQUIJOIN
- B. CROSS JOIN
- **C. EQUIJOIN**
- D. SELF JOIN

**Answer: C**

Explanation:

This query performs a join operation where records from the Make table and Model table are combined based on the condition Make.ModelID = Model.ID. This condition tests for equality, which is the definition of an EQUIJOIN.

Types of Joins in SQL:

\* EQUIJOIN (Correct Answer):

\* Uses an equality operator (=) to match rows between tables.

\* Equivalent to an INNER JOIN ON condition.

\* Example:

```
sql
SELECT *
FROM Employees
JOIN Departments ON Employees.DeptID = Departments.ID;
* NON-EQUIJOIN (Incorrect):
* Uses comparison operators other than =(e.g., <, >, BETWEEN).
* Example:
```

```
sql
SELECT *
FROM Employees e
JOIN Salaries s ON e.Salary > s.MedianSalary;
* SELF JOIN (Incorrect):
* A table is joined with itself using table aliases.
* Example:
```

```
sql
SELECT e1.Name, e2.Name AS Manager
FROM Employees e1
JOIN Employees e2 ON e1.ManagerID = e2.ID;
* CROSS JOIN (Incorrect):
* Produces Cartesian product (each row from Table A combines with every row from Table B).
* Example:
```

```
sql
SELECT *
FROM Employees
CROSS JOIN Departments;
Thus, since our given query uses an equality condition (=) to join two tables, it is an EQUIJOIN.
```

#### NEW QUESTION # 61

What is the last step in the logical design process for designing a database?

- A. Apply a normal form
- B. Discover entities
- C. Analyze data requirements
- D. Determine cardinality

**Answer: A**

Explanation:

The logical design phase in database development focuses on structuring data efficiently to eliminate redundancy and ensure integrity. The final step in logical design is to apply normalization (normal forms) to optimize the database schema.

Steps in Logical Database Design:

- \* Discover entities# Identify real-world objects (e.g., Customers, Orders).
- \* Determine cardinality# Define relationships between entities (one-to-one, one-to-many).
- \* Analyze data requirements# Determine the attributes each entity needs.
- \* Apply normal forms# Eliminate redundancy and improve data consistency.

Example Usage:

\* After identifying entities like Students and Courses, applying 3rd Normal Form (3NF) ensures that data is organized without redundancy.

Why Other Options Are Incorrect:

- \* Option A (Analyze data requirements) (Incorrect): Done earlier to define attributes.
- \* Option C (Determine cardinality) (Incorrect): Done before normalization to establish relationships.
- \* Option D (Discover entities) (Incorrect): Done at the beginning of database design.

Thus, the correct answer is Apply a normal form, as normalization is the last step in logical design.

#### NEW QUESTION # 62

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