

Data-Management-Foundations - WGU Data Management-Foundations Exam-Reliable Dumps Questions

WGU - Data Management Foundations

Exam 2025 Questions and Answers

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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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WGU Data Management – Foundations Exam Sample Questions (Q23-Q28):

NEW QUESTION # 23

Which relationship or association exists between a supertype and its subtype entities?

- A. IsA relationship
- B. Weak entity
- C. Strong entity
- D. Associative entity

Answer: A

Explanation:

In database modeling, the relationship between a supertype and its subtypes is called an IsA relationship.

Example Usage:

* A Vehicle supertype may have Car and Truck subtypes.

Vehicle

Car

Truck

* In ER diagrams, this is represented as:

Vehicle (Supertype)

|

Car (Subtype)

Truck (Subtype)

* SQL Table Implementation:

sql

```
CREATE TABLE Vehicle (  
  VehicleID INT PRIMARY KEY,  
  Make VARCHAR(50),  
  Model VARCHAR(50)  
);
```

```
CREATE TABLE Car (  
  VehicleID INT PRIMARY KEY,  
  FOREIGN KEY (VehicleID) REFERENCES Vehicle(VehicleID),  
  EngineType VARCHAR(50)  
);
```

```
CREATE TABLE Truck (  
  VehicleID INT PRIMARY KEY,  
  FOREIGN KEY (VehicleID) REFERENCES Vehicle(VehicleID),  
  CargoCapacity INT  
);
```

* This structure preserves the IsA relationship between Vehicle (supertype) and Car/Truck (subtypes).

Why Other Options Are Incorrect:

* Option A (Strong entity) (Incorrect): Strong entities do not rely on a supertype/subtype hierarchy.

* Option C (Associative entity) (Incorrect): Used to resolve many-to-many relationships, not supertype/subtype relationships.

* Option D (Weak entity) (Incorrect): Weak entities depend on a strong entity, but supertype-subtype relations use inheritance (not

dependency).

Thus, the correct answer is ISA relationship, as it describes the inheritance hierarchy between supertypes and subtypes.

NEW QUESTION # 24

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:

A foreign key is a column (or a set of columns) that establishes a relationship between two tables by referencing the primary 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.

* Ensures referential integrity# DeptID in Employees must exist in Departments.

Why Other Options Are Incorrect:

* Option A (Super key) (Incorrect): A super key is any set of columns that uniquely identifies a row, but it does not reference another table.

* Option B (Simple key) (Incorrect): A simple key is a single-column primary key, not a reference to another table.

* Option C (Composite key) (Incorrect): A composite key consists of multiple columns but does not necessarily reference another table.

Thus, the correct answer is Foreign key, as it establishes a connection between two tables.

NEW QUESTION # 25

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

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

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 # 26

Which keyword determines if a value is within a range of values?

- A. IN
- B. LIKE
- C. OR
- **D. BETWEEN**

Answer: D

Explanation:

The BETWEEN keyword in SQL is used to filter values within a specified range. It is particularly useful for numeric and date-based queries.

Syntax of BETWEEN:

sql

```
SELECT * FROM Employees WHERE Salary BETWEEN 50000 AND 100000;
```

* Retrieves all employees whose salary is between \$50,000 and \$100,000 (inclusive).

Why Other Options Are Incorrect:

* Option A (LIKE) (Incorrect): Used for pattern matching with wildcards (% , _). Example:

sql

```
SELECT * FROM Customers WHERE Name LIKE 'A%';
```

* Option B (IN) (Incorrect): Used to match a value in a specified set, but not a range. Example:

sql

```
SELECT * FROM Employees WHERE Department IN ('HR', 'Finance', 'IT');
```

* Option C (OR) (Incorrect): Used for logical conditions, but does not check a range. Example:

sql

```
SELECT * FROM Products WHERE Price < 10 OR Price > 50;
```

Thus, the correct choice is BETWEEN for filtering values within a range.

NEW QUESTION # 27

Which statement is associated with two separate entities?

- A. Attribute
- B. Reflexive relationship
- C. Entity type
- **D. Relationship**

Answer: D

Explanation:

A relationship in an ER model defines how two separate entities interact.

Example Usage:

A screenshot of a computer AI-generated content may be incorrect.

Table 1: Customers	Table 2: Order
CustomerID (PK)	OrderID (PK)
Name	CustomerID (FK)

```
CREATE TABLE Customers (
```

```
CustomerID INT PRIMARY KEY,
```

```
Name VARCHAR(50)
```

```
);
```

```
CREATE TABLE Orders (
```

```
OrderID INT PRIMARY KEY,
```

```
CustomerID INT,
```

```
FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
```

```
);
```

* Customers and Orders are separate entities, related via CustomerID.

Why Other Options Are Incorrect:

* Option A (Reflexive relationship) (Incorrect):Used for self-referencing entities, not two different entities.

* Option B (Entity type) (Incorrect):Defines a class of objects, but does not establish relationships.

* Option D (Attribute) (Incorrect):Attributes describe entities but do not connect them.

Thus, the correct answer is Relationship, as it connects two separate entities.

NEW QUESTION # 28

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