

Data-Management-Foundations Reliable Exam Questions

- Data-Management-Foundations Latest Exam Labs

WGU C175/D426 DATA MANAGEMENT FOUNDATIONS OA EXAM
2023-2024 ACTUAL EXAM 2 LATEST VERSIONS 300
QUESTIONS AND CORRECT DETAILED ANSWERS WITH
RATIONALES (100% CORRECT AND VERIFIED ANSWERS)
ALREADY GRADED A+

VERSION A

What does modality refer to? How does it appear on ER diagram? - ANSWER-

Refers to the MINIMUM number of times an instance in one entity can be associated with instance of another entity (minima)
Appears as a 0 or 1 on the relationship line, next to cardinality

Define: Referential Integrity - ANSWER- Requires that ALL foreign key values must either be fully NULL or match some primary key value

4 Ways Referential Integrity can be violated: - ANSWER- 1. Primary key is updated
2. Foreign key is updated
3. Row containing primary key is DELETED
4. Row containing foreign key is INSERTED

4 Actions to Correct Referential Integrity Violation: - ANSWER- 1. RESTRICT - rejects an insert, update, or delete
2. SET NULL - sets invalid foreign keys to null
3. SET DEFAULT - sets invalid foreign keys to a default primary value
4. CASCADE - propagates primary key changes to foreign keys

What is an important aspect to referential integrity? - ANSWER- reference to data in one relation is based on values in another relation

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WGU Data Management – Foundations Exam Sample Questions (Q15-Q20):

NEW QUESTION # 15

Which entity in a table is a measurable object in the real world?

- A. Conceptual entity
- **B. Tangible entity**
- C. Virtual entity
- D. Logical entity

Answer: B

Explanation:

A tangible entity is a real-world object that can be measured and stored in a database.

Example Usage:

* In an inventory system, tangible entities include:

Products, Orders, Customers

Why Other Options Are Incorrect:

* Option A (Logical entity) (Incorrect): Exists logically but may not have a physical presence (e.g., views, categories).

* Option C (Virtual entity) (Incorrect): Exists only in queries or reports, not stored as real data.

* Option D (Conceptual entity) (Incorrect): Abstract idea used in design modeling, not a stored entity.

Thus, the correct answer is Tangible entity, as it represents measurable, real-world objects.

NEW QUESTION # 16

Which type of join selects all the rows from both the left and right table, regardless of match?

- **A. Full Join**
- B. Outer Join
- C. Cross Join
- D. Inner Join

Answer: A

Explanation:

A Full Join (FULL OUTER JOIN) selects all records from both tables, filling in NULL values where there is no match. This ensures that no data is lost from either table.

Example Usage:

sql

```
SELECT Employees.Name, Departments.DepartmentName
```

```
FROM Employees
```

```
FULL OUTER JOIN Departments ON Employees.DeptID = Departments.ID;
```

* This query retrieves all employees and all departments, even if an employee has no assigned department or a department has no employees.

Types of Joins:

* FULL OUTER JOIN (Correct Answer) # Includes all rows from both tables, filling missing values with NULL.

* LEFT JOIN (Incorrect) # Includes all rows from the left table and matching rows from the right table.

* RIGHT JOIN (Incorrect) # Includes all rows from the right table and matching rows from the left table.

* CROSS JOIN (Incorrect) # Produces a Cartesian product (each row from one table is combined with every row from another table).

Thus, the correct answer is FULL JOIN, which ensures that all rows from both tables appear in the result.

NEW QUESTION # 17

What is shown on the "many" side of a relationship between two tables?

- A. Weak entity
- **B. Foreign key**
- C. Reflexive relationship
- D. Binary relationship

Answer: B

Explanation:

In a one-to-many (1:M) relationship, the foreign key is placed in the table on the "many" side to establish the relationship with the primary key of the "one" side.

Example Usage:

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

Table Name	Primary Key	Foreign Key
Departments	DeptID (PK)	-
Employees	EmpID (PK)	DeptID (FK)

```
CREATE TABLE Departments (  
  DeptID INT PRIMARY KEY,  
  DeptName VARCHAR(50)  
);  
CREATE TABLE Employees (  
  EmpID INT PRIMARY KEY,  
  Name VARCHAR(50),  
  DeptID INT, -- Foreign key on the "many" side  
  FOREIGN KEY (DeptID) REFERENCES Departments(DeptID)  
);
```

* Each department can have many employees # DeptID is a foreign key in Employees.

Why Other Options Are Incorrect:

* Option A (Reflexive relationship) (Incorrect): Refers to unary (self-referential) relationships, not 1:M relationships.

* Option B (Binary relationship) (Incorrect): A binary relationship involves two entities, but does not define where the foreign key is stored.

* Option C (Weak entity) (Incorrect): Weak entities depend on a strong entity, but not all "many" sides are weak entities.

Thus, the correct answer is Foreign key, as it is placed on the "many" side of the relationship.

NEW QUESTION # 18

Which term defines a column, or group of columns, that refers to a primary key in a different table?

- A. Composite key
- **B. Foreign key**
- C. Super key
- D. Simple key

Answer: B

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 # 19

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

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

Answer: C

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 # 20

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