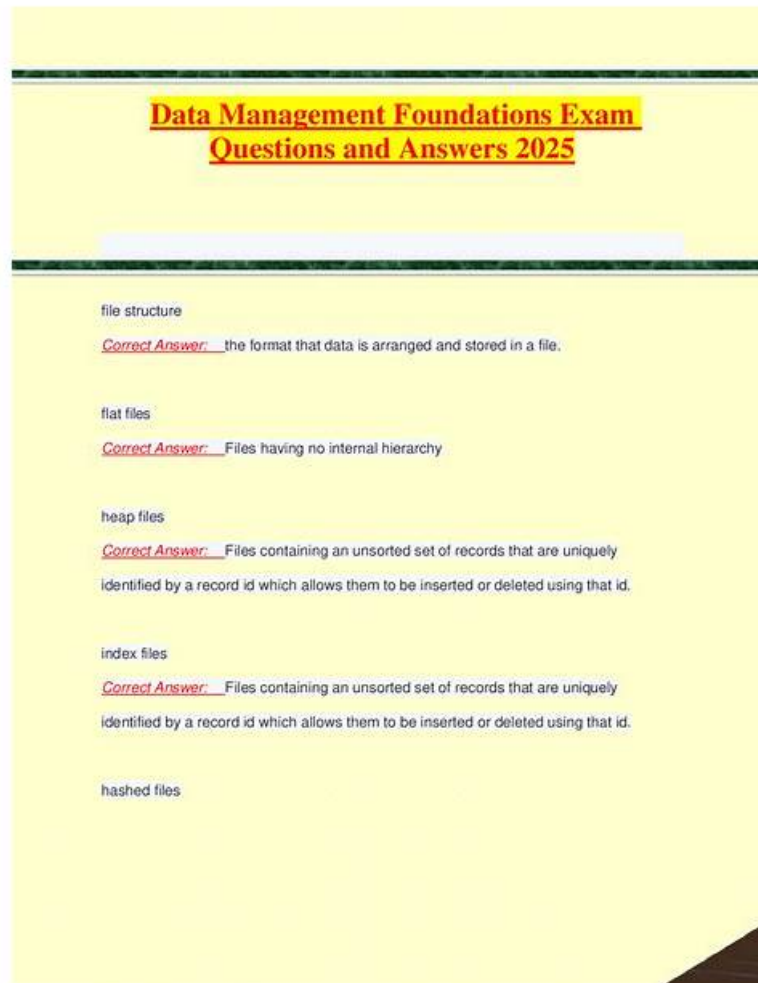


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## WGU Data Management – Foundations Exam Sample Questions (Q16-Q21):

### NEW QUESTION # 16

Which main characteristic is used to differentiate between strong and weak entities in the process of database design?

- A. Primary key
- B. Association
- C. Foreign key
- D. Cardinality

**Answer: A**

Explanation:

In database design, an entity is classified as strong or weak based on whether it has a primary key that uniquely identifies its records.

Differences Between Strong and Weak Entities:

Entity Type	Primary Key	Example
Strong Entity	Has its own unique primary key	Student (StudentID)
Weak Entity	Does not have a primary key of its own; depends on another table's key	OrderDetails (Depends on OrderID)

```
CREATE TABLE Orders (  
  OrderID INT PRIMARY KEY,  
  CustomerID INT  
);  
CREATE TABLE OrderDetails (  
  OrderDetailID INT,  
  OrderID INT,  
  ProductID INT,  
  PRIMARY KEY (OrderDetailID, OrderID),  
  FOREIGN KEY (OrderID) REFERENCES Orders(OrderID)  
);
```

\* Orders is a strong entity (has OrderID as its own primary key).

\* OrderDetails is a weak entity (depends on OrderID for uniqueness).

Why Other Options Are Incorrect:

\* Option A (Association) (Incorrect): Associations describe relationships but do not define strong/weak entities.

\* Option C (Foreign key) (Incorrect): Weak entities depend on foreign keys, but primary keys define their status.

\* Option D (Cardinality) (Incorrect): Cardinality defines relationship constraints but does not differentiate entity types.

Thus, the correct answer is Primary key, as it is the defining characteristic between strong and weak entities.

### NEW QUESTION # 17

What is the role of the transaction manager within the database system architecture?

- A. The transaction manager uses information from the catalog to perform query optimization.
- B. The transaction manager translates the query processor instructions into filesystem commands and uses an index to quickly locate the requested data.
- C. The transaction manager is composed of a query processor, storage manager, transaction manager, log, and catalog.
- D. The transaction manager logs insert, update, and delete queries, and the result is sent back to the application.

**Answer: D**

### NEW QUESTION # 18

What is the second step in the implement relationships stage of database design?

- A. Specify cascade

- B. Implement subtype entities
- **C. Implement one-one relationships**
- D. Implement weak entities

**Answer: C**

Explanation:

The second step in implementing relationships is defining one-to-one (1:1) relationships between entities.

Example Usage:

\* Example of a 1:1 relationship:

sql

```
CREATE TABLE Employees (
  EmpID INT PRIMARY KEY,
  Name VARCHAR(50)
);
CREATE TABLE EmployeeDetails (
  EmpID INT PRIMARY KEY,
  Address VARCHAR(255),
  FOREIGN KEY (EmpID) REFERENCES Employees(EmpID)
);
```

\* Here, each employee has exactly one detail record, creating a 1:1 relationship.

Why Other Options Are Incorrect:

- \* Option A (Implement weak entities) (Incorrect): Weak entities rely on a foreign key and are implemented later.
- \* Option C (Implement subtype entities) (Incorrect): Subtypes are special cases and not implemented in the second step.
- \* Option D (Specify cascade) (Incorrect): Cascade rules (ON DELETE, ON UPDATE) are defined during foreign key implementation, not in the second step.

Thus, the correct answer is Implement one-one relationships, as it is the next logical step after defining entities.

## NEW QUESTION # 19

Which object relates an entity to itself in an entity-relationship model?

- A. Attribute
- B. Repository
- **C. Reflexive relationship**
- D. Relationship instance

**Answer: C**

Explanation:

A reflexive relationship (also called unary relationship) occurs when an entity is related to itself.

Example Usage:

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

EmployeeID	Name	ManagerID (FK)
1	Alice	NULL
2	Bob	1
3	Carol	1

```
CREATE TABLE Employees (
  EmpID INT PRIMARY KEY,
  Name VARCHAR(50),
  ManagerID INT,
  FOREIGN KEY (ManagerID) REFERENCES Employees(EmpID)
);
```

\* ManagerID refers to another employee within the same table.

Why Other Options Are Incorrect:

- \* Option A (Repository) (Incorrect): A data storage structure, not a relationship type.
- \* Option B (Relationship instance) (Incorrect): Describes a specific connection between entities, not a reflexive relationship.
- \* Option D (Attribute) (Incorrect): Attributes store characteristics, but do not define relationships.

Thus, the correct answer is Reflexive relationship, as it relates an entity to itself.

#### NEW QUESTION # 20

Which operator defines the field that the index is using in a CREATE TABLE statement?

- A. UNIQUE
- **B. ON**
- C. CHECK
- D. IN

**Answer: B**

Explanation:

The ON keyword specifies the field used by an index when creating it in SQL.

Example Usage:

sql

```
CREATE INDEX idx_employee_name  
ON Employees(Name);
```

\* Here, an index idx\_employee\_name is created on the Name column.

\* This improves query performance when filtering by Name.

Why Other Options Are Incorrect:

\* Option B (IN) (Incorrect): Used in queries to match values in a set, not for indexing.

\* Option C (UNIQUE) (Incorrect): Ensures a column has unique values but does not define an index field.

\* Option D (CHECK) (Incorrect): Used for validating column values, not for indexing.

Thus, the correct answer is ON, as it defines the column on which an index is created.

#### NEW QUESTION # 21

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