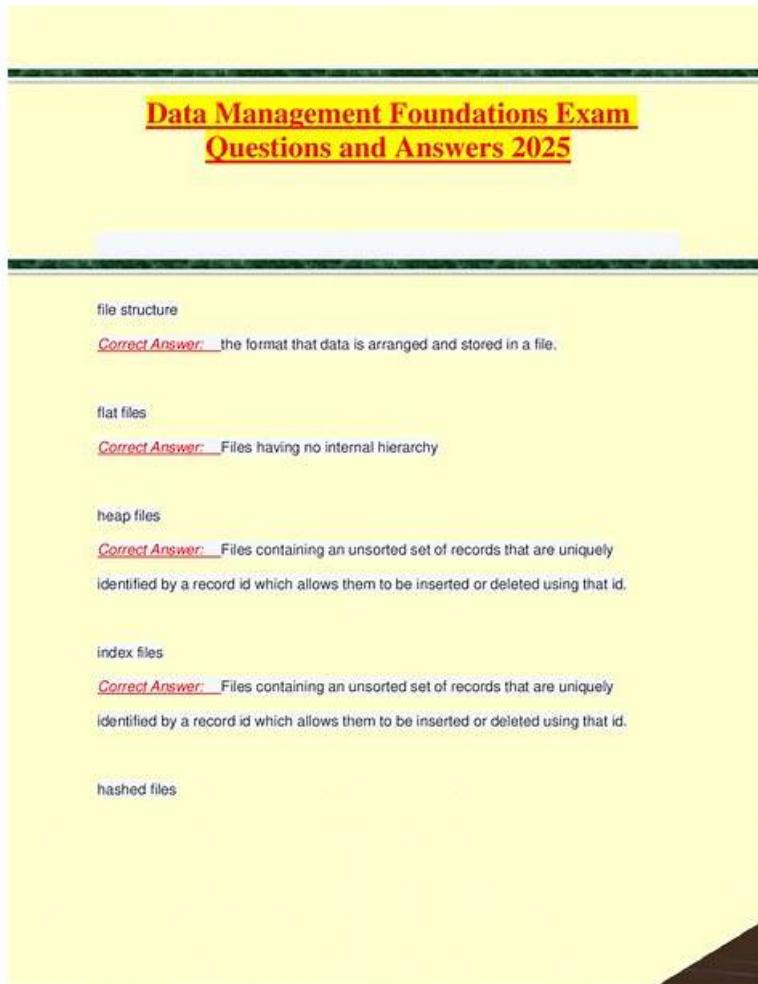


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WGU Data Management – Foundations Exam Sample Questions (Q16-Q21):

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 a 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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