

Reliable Data-Management-Foundations Exam Pdf, Data-Management-Foundations Study Materials Review

WGU C175/d426 Data Management Foundations Final Exam Study Review Solutions

What is a broad definition of data? ✓✓Raw facts that are captured on printed or digital media

What are data? ✓✓Facts that are collected and stored in a database system

What is a determining characteristic of unstructured data? ✓✓It does not follow a data model.

Which is true about flat files? ✓✓They contain no internal hierarchical organization.

Which technology has no internal hierarchy? ✓✓Flat files

How were data retrieved before database management systems? ✓✓Sequentially from simple files

In which two ways does a database management system environment increase effectiveness in working with data? ✓✓- It enables data sharing.
- It permits storage of vast volumes of data.

What is the uniquely identifiable element about which data can be categorized in an entity-relationship diagram? ✓✓Entity types

Which classification is correct for the box marked "Quantity" in the given entity-relationship diagram? ✓✓Intersection data

Which data classification is an entity? ✓✓Event

A salesperson is authorized to sell 12 products; a product can be sold by 10 salespersons.

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WGU Data-Management-Foundations Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Creating databases and tables in SQL enabled database systems: This section of the exam measures skills of Database Developers and covers setting up databases and tables using SQL in relational systems. It focuses on choosing table structures, defining columns, and preparing the database so that data can be stored and managed correctly.

Topic 2	<ul style="list-style-type: none"> Normalizing relational databases: This section of the exam measures skills of Data Analysts and covers organizing data using normalization steps. It focuses on reducing redundancy, splitting data into related tables, and improving consistency in a relational database.
Topic 3	<ul style="list-style-type: none"> Defining primary and foreign keys for data normalization: This section of the exam measures skills of Database Developers and explains how to identify and define primary and foreign keys. It focuses on using keys to connect tables, enforce relationships, and support normalized database design.
Topic 4	<ul style="list-style-type: none"> Introduction to conceptual logical and physical data models: This section of the exam measures skills of Data Analysts and introduces the basic ideas behind conceptual, logical, and physical data models. It focuses on understanding how each model represents data at a different level, from high level business view to detailed database structure.

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WGU Data Management – Foundations Exam Sample Questions (Q43-Q48):

NEW QUESTION # 43

Which relationship exists between occurrences of the same entity types?

- A. Binary
- B. Unary**
- C. Modality
- D. Cardinality

Answer: B

Explanation:

A unary relationship(also known as a recursive relationship) occurs when an entity relates to itself.

Example Usage:

* Employees and Managers:

sql

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

* Here, ManagerID references another Employee# unary (self-referential) relationship.

Why Other Options Are Incorrect:

* Option A (Modality) (Incorrect): Describes optional vs. mandatory relationships, not self-referencing.

* Option C (Cardinality) (Incorrect): Defines how many instances relate, not the type of relationship.

* Option D (Binary) (Incorrect): Binary relationships involve two different entities, not self-referencing. Thus, the correct answer is Unary, as it describes relationships within the same entity type.

NEW QUESTION # 44

Which phase of entity-relationship modeling refers to the maxima and minima of relationships and attributes?

- A. Partition
- B. **Cardinality**
- C. Attribute minimum
- D. Physical design

Answer: B

Explanation:

Cardinality defines the minimum and maximum number of occurrences of one entity in relation to another.

Example Usage in an ER Model:

* One-to-Many (1:M): A customer can place multiple orders, but each order belongs to only one customer.

Customers (1) --- (M) Orders

* Cardinality notation:

(1,1) # One-to-One

(0,M) # Zero-to-Many

(1,M) # One-to-Many

Why Other Options Are Incorrect:

* Option B (Physical design) (Incorrect): Focuses on storage and indexing, not relationships.

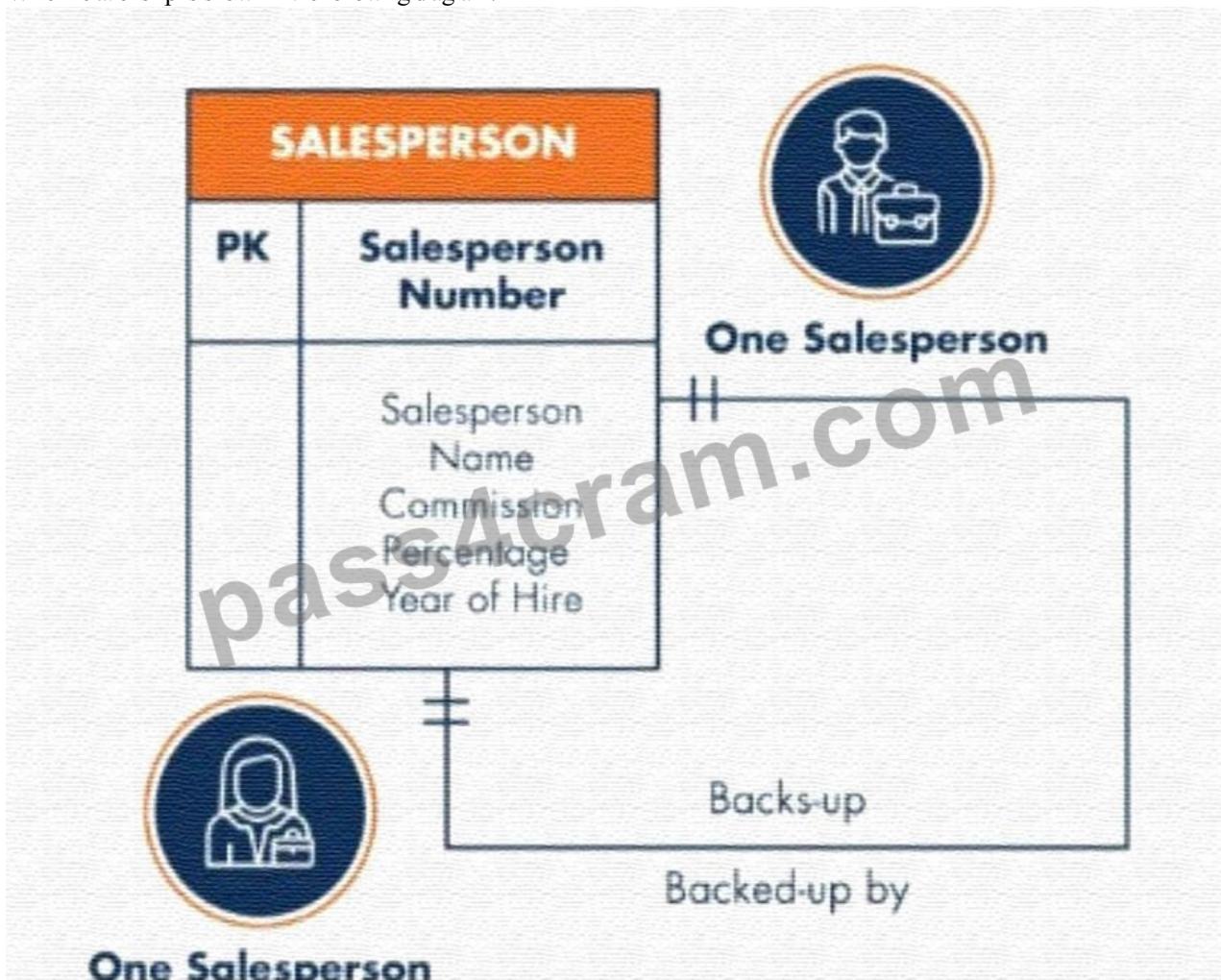
* Option C (Attribute minimum) (Incorrect): No such formal term in database modeling.

* Option D (Partition) (Incorrect): Refers to dividing tables, not relationship constraints.

Thus, the correct answer is Cardinality, as it defines min/max constraints on relationships.

NEW QUESTION # 45

Which relationship is shown in the following diagram?



- A. Many-to-many

- B. Unary relationship
- C. Intersection data
- D. Associative entity

Answer: B

Explanation:

The given diagram represents a unary relationship (also called a recursive relationship), which occurs when an entity is related to itself. In this case, salespersons back each other up, meaning a salesperson is associated with another salesperson from the same entity.

Key Observations from the Diagram:

- * Single Entity (Salesperson)
- * The table contains only one entity type, Salesperson, which has attributes such as Salesperson Number, Name, Commission, Percentage, and Year of Hire.
- * Self-Referencing Relationship (Backs-up and Backed-up by)
- * The diagram shows that a salesperson can back up another salesperson.
- * This means that the relationship exists within the same entity rather than between two different entities.
- * Cardinality (One-to-One Relationship in a Unary Form)
- * The notation (|) in the ER diagram indicates a one-to-one recursive relationship.
- * One salesperson can back up only one other salesperson, and each salesperson is backed up by only one.

NEW QUESTION # 46

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

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

Answer: D

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 # 47

What is information independence?

- A. An ability to interchange databases
- B. An ability to change database type
- C. An ability to make changes to existing queries
- D. An ability to change the organization of data

Answer: D

Explanation:

Information independence refers to the separation between data storage and data access. It allows a database's logical structure to be modified without affecting existing applications.

Types of Information Independence:

* Logical Data Independence# Ability to change the conceptual schema (e.g., renaming columns, adding new attributes) without modifying applications.

* Physical Data Independence# Ability to change the physical storage structure (e.g., indexing, partitioning) without affecting queries.

Example of Logical Data Independence:

* A new column is added to the Customers table, but existing queries still work without modification.

Example of Physical Data Independence:

* Data is moved to SSD storage for performance improvement, but queries run the same way.

Why Other Options Are Incorrect:

* Option A (Incorrect): Changing the database type (e.g., MySQL to PostgreSQL) is not information independence.

* Option B (Incorrect): Making changes to queries is unrelated to database independence.

* Option C (Incorrect): Interchanging databases is related to data portability, not information independence.

Thus, the correct answer is D - An ability to change the organization of data, as information independence ensures modifications do not disrupt database operations.

NEW QUESTION # 48

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