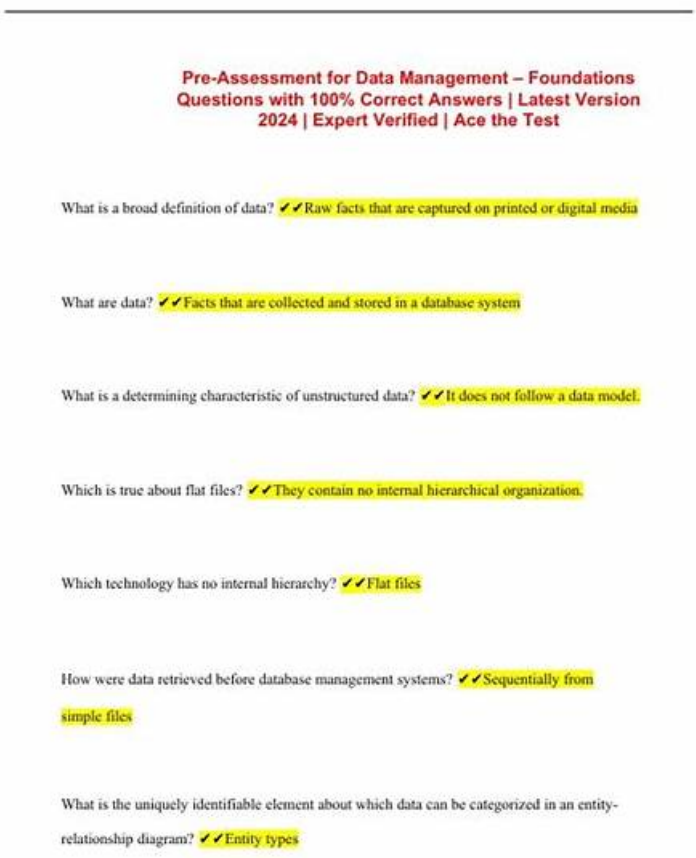
Data-Management-Foundations Test Prep - Exam Data-Management-Foundations Torrent



Pre-Assessment for Data Management – Foundations
Questions with 100% Correct Answers | Latest Version
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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

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

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WGU Data-Management-Foundations Exam Syllabus Topics:

Topic	Details
Topic 1	• Attributes of databases tables and SQL commands: This section of the exam measures skills of Database Developers and explains the main features of databases and tables, along with basic SQL commands. It focuses on understanding rows, columns, data types, and how common SQL operations interact with these elements.

Topic 2	• 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.
Topic 3	• 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 4	• 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.

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WGU Data Management – Foundations Exam Sample Questions (Q24-Q29):

NEW QUESTION # 24
Which keyword determines if a value is within a range of values?

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

Answer: A

Explanation:
TheBETWEENkeyword in SQL is used tofilter 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;
* Retrievesall employees whose salary is between $50,000 and $100,000 (inclusive).
Why Other Options Are Incorrect:
* Option A (LIKE) (Incorrect):Used forpattern matchingwith wildcards (%, _). Example:
sql
SELECT * FROM Customers WHERE Name LIKE 'A%';
* Option B (IN) (Incorrect):Used tomatch a value in a specified set, butnot a range. Example:
sql
SELECT * FROM Employees WHERE Department IN ('HR', 'Finance', 'IT');
* Option C (OR) (Incorrect):Used forlogical conditions, but doesnot check a range. Example:
sql
SELECT * FROM Products WHERE Price < 10 OR Price > 50;
Thus, the correct choice is BETWEEN for filtering values within arange.

NEW QUESTION # 25
Which statement is associated with two separate entities?

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

Answer: A

Explanation:
Arelationshipin an ER model defineshow two separate entities interact.
Example Usage:
A screenshot of a computer AI-generated content may be incorrect.

Table 1: Customers	Table 2: Orders
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 forself-referencing entities, not two different entities.
* Option B (Entity type) (Incorrect):Defines aclass of objects, but does not establish relationships.
* Option D (Attribute) (Incorrect):Attributesdescribeentities but do not connect them.
Thus, the correct answer isRelationship, as it connectstwo separate entities.

NEW QUESTION # 26
Which property of an entity can become a column in a table?

- A. Modality
- B. Attribute
- C. Non-null values
- D. Uniqueness

Answer: B

Explanation:
Indatabase design,attributesof an entity becomecolumnsin a relational table.
Example Usage:
For anEmployee entity, attributes might include:

Entity	Attributes (Columns in Table)
Employee	EmployeeID, Name, Salary, DepartmentID

CREATE TABLE Employees (
EmployeeID INT PRIMARY KEY,
Name VARCHAR(50),
Salary DECIMAL(10,2),
DepartmentID INT
);
* Eachattribute(e.g., Name, Salary) becomes acolumnin the table.
Why Other Options Are Incorrect:
* Option A (Modality) (Incorrect):Describesoptional vs. mandatoryrelationships, not table structure.

* Option B (Uniqueness) (Incorrect):Ensuresdistinct valuesbutis not a column property.
* Option D (Non-null values) (Incorrect):Ensures thatcolumns must contain databut doesnot define attributes.
Thus, the correct answer isAttribute, as attributes of entities becometable columns.

NEW QUESTION # 27
What is the last step in the logical design process for designing a database?

- A. Analyze data requirements
- B. Apply a normal form
- C. Discover entities
- D. Determine cardinality

Answer: B

Explanation:
Thelogical design phasein database development focuses onstructuring data efficientlyto eliminate redundancy and ensure integrity.
Thefinal step in logical designis toapply normalization (normal forms)to optimize the database schema.
Steps in Logical Database Design:
* Discover entities# Identify real-world objects (e.g., Customers, Orders).
* Determine cardinality# Define relationships between entities (one-to-one, one-to-many).
* Analyze data requirements# Determine the attributes each entity needs.
* Apply normal forms# Eliminate redundancy and improve data consistency.
Example Usage:
* After identifying entities likeStudentsandCourses, applying3rd Normal Form (3NF)ensures that data isorganized without redundancy.
Why Other Options Are Incorrect:
* Option A (Analyze data requirements) (Incorrect):Doneearlierto define attributes.
* Option C (Determine cardinality) (Incorrect):Donebeforenormalization to establish relationships.
* Option D (Discover entities) (Incorrect):Done at thebeginningof database design.
Thus, the correct answer isApply a normal form, as normalization is thelast step in logicaldesign.

NEW QUESTION # 28
Which clause or statement in a CREATE statement ensures a certain range of data?

- A. WHERE
- B. SET
- C. CHECK
- D. FROM

Answer: C

Explanation:
TheCHECKconstraint is used in SQL toenforce ruleson a column's values. It ensures that data inserted into a table meets specified conditions, such as range restrictions or logical rules.
Example Usage:
sql
CREATE TABLE Employees (
ID INT PRIMARY KEY,
Name VARCHAR(50),
Salary INT CHECK (Salary BETWEEN 30000 AND 150000)
);
* This constraint ensures thatsalary values fall between 30,000 and 150,000.
* If an INSERT or UPDATE statement tries to set Salary = 20000, itfailsbecause it does notmeet the CHECK condition.
Why Other Options Are Incorrect:
* Option B (FROM) (Incorrect):Used in SELECT statements, not for constraints.
* Option C (WHERE) (Incorrect):Filters rows in queries butdoes not enforce constraints.
* Option D (SET) (Incorrect):Used for updating records (UPDATE table_name SET column = value) butnot for defining constraints.
Thus,CHECK is the correct answer, as it ensures that column values remain within an expected range.

NEW QUESTION # 29
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