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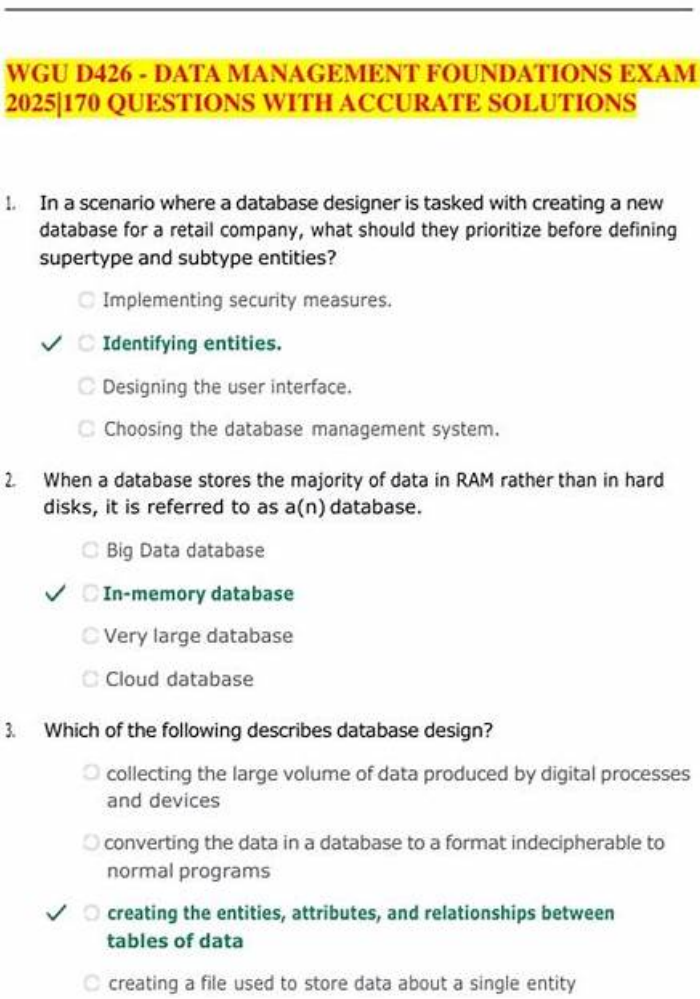

WGU D426 - DATA MANAGEMENT FOUNDATIONS EXAM 2025|170 QUESTIONS WITH ACCURATE SOLUTIONS

1. In a scenario where a database designer is tasked with creating a new database for a retail company, what should they prioritize before defining supertype and subtype entities?
   - Implementing security measures.
   - ✓ **Identifying entities.**
   - Designing the user interface.
   - Choosing the database management system.
2. When a database stores the majority of data in RAM rather than in hard disks, it is referred to as a(n) database.
   - Big Data database
   - ✓ **In-memory database**
   - Very large database
   - Cloud database
3. Which of the following describes database design?
   - collecting the large volume of data produced by digital processes and devices
   - converting the data in a database to a format indecipherable to normal programs
   - ✓ **creating the entities, attributes, and relationships between tables of data**
   - creating a file used to store data about a single entity

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WGU Data Management – Foundations Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21
Which constraint propagates primary key changes to foreign keys?

- A. RESTRICT
- B. SET DEFAULT
- C. CASCADE
- D. SET NULL

Answer: C

Explanation:
TheCASCADEconstraint ensures thatupdates or deletions in the primary key table automatically reflect in the foreign key 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) ON UPDATE CASCADE ON DELETE CASCADE);
* If DeptIDchangesin Departments, itautomatically updatesin Employees.
* If a DeptID isdeleted, all employees in that departmentare also deleted.
Why Other Options Are Incorrect:
* Option A (SET DEFAULT) (Incorrect):Sets foreign key values to adefaultvalue, rather than propagating changes.
* Option B (SET NULL) (Incorrect):When the referenced key is deleted, dependent records areset to NULLinstead of being updated/deleted.
* Option C (RESTRICT) (Incorrect):Prevents deletion of a referenced row if dependent foreign key rows exist.
Thus, the correct answer isCASCADE, as itpropagates primary key changes to dependent foreign keys.

NEW QUESTION # 22
What is shown on the "many" side of a relationship between two tables?

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

Answer: B

Explanation:
In aone-to-many (1:M) relationship, theforeign keyis placed in thetable on the "many" sideto establish the relationship with theprimary keyof 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)
);
* Eachdepartmentcan havemany employees# DeptID is aforeign keyin Employees.
Why Other Options Are Incorrect:
* Option A (Reflexive relationship) (Incorrect):Refers tounary (self-referential) relationships, not 1:
M relationships.
* Option B (Binary relationship) (Incorrect):A binary relationship involvestwo entities, but does not define where the foreign key is stored.
* Option C (Weak entity) (Incorrect):Weak entitiesdepend on a strong entity, but not all "many" sides are weak entities.
Thus, the correct answer isForeign key, as it is placed on the "many" side of the relationship.

NEW QUESTION # 23
Which designation is an individual value, such as a salary?

- A. Relationship
- B. Entity type
- C. Attribute type
- D. Glossary

Answer: C

Explanation:
Anattribute typerefers to asingle, specific valuewithin a table, such as Salary, Age, or Price.
Example Usage:
A screenshot of a computer AI-generated content may be incorrect.

EmployeeID	Name	Salary
1	Alice	50000
2	Bob	60000

CREATE TABLE Employees (
EmpID INT PRIMARY KEY,
Name VARCHAR(50),
Salary DECIMAL(10,2)
);
* Salary is anattribute typewith individual values for each employee.
Why Other Options Are Incorrect:
* Option A (Glossary) (Incorrect):Refers todocumentation, not database values.
* Option B (Entity type) (Incorrect):Representsa class of objects(e.g., Employees), not individual values.
* Option D (Relationship) (Incorrect):Definesconnections between entities, not attributes.
Thus, the correct answer isAttribute type, as it represents anindividual data value.

NEW QUESTION # 24
Which type of join selects all the rows from both the left and right table, regardless of match?

- A. Cross Join
- B. Outer Join

- C. Full Join
- D. Inner Join

Answer: C

Explanation:
AFull Join (FULL OUTER JOIN)selectsall 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 retrievesall employees and all departments, even if an employeehas no assigned departmentor a departmenthas no employees.
Types of Joins:
* FULL OUTER JOIN (Correct Answer)# Includesall rows from both tables, filling missing values with NULL.
* LEFT JOIN (Incorrect)# Includesall rows from the left tableandmatching rows from the right table.
* RIGHT JOIN (Incorrect)# Includesall rows from the right tableandmatching rows from the left table.
* CROSS JOIN (Incorrect)# Produces aCartesian product(each row from one table is combined with every row from another table).
Thus, the correct answer isFULL JOIN, whichensures that all rows from both tables appear in the result.

NEW QUESTION # 25
Which function measures a numeric value's distance from 0?

- A. CONCAT
- B. ABS
- C. FROM
- D. LOWER

Answer: B

Explanation:
TheABS()function in SQL returns theabsolute valueof a given number, effectively measuring itsdistance from zero.
Example Usage:
sql
SELECT ABS(-50), ABS(50);
Result:
50 | 50
* This function ensures that numbers arealways positive, regardless of their original sign.
Why Other Options Are Incorrect:
* Option A (CONCAT) (Incorrect):Used tocombine strings(not numbers).
* Option B (LOWER) (Incorrect):Converts text tolowercase, not numerical operations.
* Option C (FROM) (Incorrect):Part of SELECT FROM queries,not a function.
Thus, the correct choice isABS(), which computes the absolute value of a number.

NEW QUESTION # 26
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