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WGU Data-Management-Foundations Exam Syllabus Topics:

Topic	Details
Topic 1	• Model deployment and storytelling: This section of the exam measures skills of Data Engineers and includes operationalizing machine learning models and presenting analytical results in a compelling narrative. The content addresses model validation and the communication of insights in ways that foster business understanding and action
Topic 2	• Statistical analysis: This section of the exam measures skills of Data Scientists and emphasizes the use of statistical techniques to interpret and summarize data. Candidates are assessed on applying descriptive and inferential statistics to draw valid conclusions from datasets.
Topic 3	• Visualization: This part of the exam measures skills of Business Intelligence Analysts and covers the representation of information using charts, graphs, and dashboards. Candidates demonstrate the ability to effectively communicate findings and trends to a broad audience through visual displays.
Topic 4	• Leadership and management: This section of the exam measures skills of Project Managers and explores leadership roles in managing data-driven projects and teams. Learners are introduced to the concepts of project planning, decision making, and stakeholder communication in the context of data management.
Topic 5	• Data wrangling: This section of the exam measures skills of Data Analysts and involves preparing, cleaning, and transforming data into suitable formats for analysis. The focus is on resolving data inconsistencies, handling missing values, and reformatting data to maintain accuracy for analysis tasks.

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WGU Data Management – Foundations Exam Sample Questions (Q45-Q50):

NEW QUESTION # 45
Which phase of entity-relationship modeling refers to the maxima and minima of relationships and attributes?

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

Answer: C

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 # 46
What is the first step of the analysis phase for designing a database?

- A. Implement attributes
- B. Draw an entity-relationship (ER) diagram
- C. Determine cardinality
- D. Identify entities

Answer: D

Explanation:
The first step in database analysis is identifying entities, which are the real-world objects that need to be represented in the database.
Example Usage:
* In a school system, the main entities could be:
Students, Courses, Instructors
Why Other Options Are Incorrect:
* Option A (Determine cardinality) (Incorrect): Determining relationships comes after identifying entities.
* Option C (Draw an ER diagram) (Incorrect): ER diagrams visualize entities but are not the first step.
* Option D (Implement attributes) (Incorrect): Attributes are defined after entities are identified.
Thus, the correct answer is Identify entities, as entities form the foundation of the database model.

NEW QUESTION # 47
Which product has an open-source license in addition to having a non-relational system?

- A. SQL Server
- B. MySQL
- C. Oracle Database
- D. MongoDB

Answer: D

Explanation:

MongoDB is aNoSQL (non-relational) databasethat isopen-sourceand supportsdocument-oriented storage
. It allows for flexible schema design and is optimized for big data applications.
* Option A (Correct):MongoDB is aNoSQL databasewith an open-sourceAGPLlicense, making it both free to use and non-relational.
* Option B (Incorrect):SQL Serveris arelational database(RDBMS) developed by Microsoft and isnot open-source.
* Option C (Incorrect):MySQLisopen-sourcebut is arelational database(RDBMS), not a NoSQL system.
* Option D (Incorrect):Oracle Databaseisrelationalandproprietary(not open-source).

NEW QUESTION # 48
Which relationship or association exists between a supertype and its subtype entities?

- A. IsA relationship
- B. Associative entity
- C. Weak entity
- D. Strong entity

Answer: A

Explanation:
Indatabase modeling, the relationship between asupertype and its subtypesis called anIsA relationship.
Example Usage:
* AVehicle supertypemay haveCar and Truck subtypes.
Vehicle
Car
Truck
* InER diagrams, this is represented as:
Vehicle (Supertype)
|
Car (Subtype)
Truck (Subtype)
* SQL Table Implementation:
sql
CREATE TABLE Vehicle (
VehicleID INT PRIMARY KEY,
Make VARCHAR(50),
Model VARCHAR(50)
);
CREATE TABLE Car (
VehicleID INT PRIMARY KEY,
FOREIGN KEY (VehicleID) REFERENCES Vehicle(VehicleID),
EngineType VARCHAR(50)
);
CREATE TABLE Truck (
VehicleID INT PRIMARY KEY,
FOREIGN KEY (VehicleID) REFERENCES Vehicle(VehicleID),
CargoCapacity INT
);
* This structurepreserves the IsA relationshipbetween Vehicle (supertype) and Car/Truck (subtypes).
Why Other Options Are Incorrect:
* Option A (Strong entity) (Incorrect):Strong entitiesdo not rely on a supertype/subtype hierarchy.
* Option C (Associative entity) (Incorrect):Used toresolve many-to-many relationships, not supertype
/subtype relationships.

* Option D (Weak entity) (Incorrect):Weak entitiesdepend on a strong entity, but supertype-subtype relations useinheritance(not dependency).
Thus, the correct answer isIsA relationship, as it describes theinheritance hierarchybetweensupertypes and subtypes.

NEW QUESTION # 49
Which clause or statement in a CREATE statement ensures a certain range of data?

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

Answer: A

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 # 50
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