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Test Series

Self-Made Assignment - Data and Database Management System

Types of Database Models

You have to write the answers to the questions in your notebook and write the descriptive questions in your own language

Multiple Choice Questions (MCQs):

Ques 1- Which database model, organizes data in a tree-like structure with one parent per child?

- A) Relational Model
- B) Network Model
- C) Hierarchical Model
- D) Object-Oriented Model

Ques 2- Which of the following is a major advantage of the relational model?

- A) Easy to represent many-to-many relationship
- B) Can store behavior (methods) with data
- C) Easy to use SQL
- D) Works well for multimedia data

Ques 3- In which model is data stored as objects similar to programming languages like Java?

- A) Hierarchical Model
- B) Object-Oriented Model
- C) Relational Model
- D) ER Model

Ques 4- Which database model is best suited for planning and visualizing relationships before building a database?

- A) Relational Model
- B) Hierarchical Model
- C) Object-Oriented Model
- D) Entity-Relationship (ER) Model

Ques 5- Which model allows a child to have multiple parents, making it suitable for many-to-many relationships?

- A) Hierarchical Model
- B) Relational Model
- C) Network Model
- D) Object-Oriented Model

True/False Questions:

1. The hierarchical model can easily handle complex relationships such as many-to-many.
2. The network model is more flexible than the hierarchical model.
3. The relational model stores data in the form of graphs and nodes.
4. Object-oriented databases store both data and methods inside objects.
5. The ER model is mainly used to store data efficiently.

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Match the database model with its correct description:

Column A - Database Model	Column B - Description
A. Hierarchical Model	Organizes data in parent-child tree structure
B. Network Model	Child can have multiple parents; uses pointers
C. Relational Model	Stores data in tables similar to spreadsheets
D. Object-Oriented Model	Stores data as objects with methods and properties
E. Entity-Relationship (ER) Model	Uses entities, attributes, and relationships for design

Descriptive Questions:

Ques 1. Compare the hierarchical and network database models. Include structure, relationships, and limitations in your answer.

Ques 2. Explain the advantages and limitations of the object-oriented database model. In what scenarios is it most useful?

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