

Kigali 11/11/2023
Ministry of Education
Rwanda TVET Board
World Mission High School
Sector: ICT
Trade: Software Development
Level:4

Fundamental of Database HOMEWORK

Types of Metadata and Their Uses:

Question: What are the primary types of metadata in a database, and how are they utilized in ensuring efficient data management?

Description of Database Constraints:

Question: Explain the significance of database constraints, providing examples of different types of constraints and their role in maintaining data integrity.

DBMS Methodology:

Question: Discuss the methodology employed by Database Management Systems (DBMS) in handling data, emphasizing key processes and their impact on database development.

Levels of Abstraction:

Question: Define and elaborate on the concept of levels of abstraction in the context of database design. How do these levels contribute to the overall database development process?

Database Relationship Description:

Question: Provide an overview of database relationships, including types of relationships (e.g., one-to-many, many-to-many) and how they are described and implemented in a relational database.

Question:How would you apply Logical Data Modeling to represent the relationships between entities such as "Customers," "Products," and "Orders" in the online retail store? Discuss the key attributes and their interconnections at a logical level to ensure data integrity and efficient querying.

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