

# **DBMS Notes - Page 1**

Database Management System (DBMS)

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1. DBMS is a software system for managing databases.
2. It provides an interface for users and applications to interact with data.
3. Advantages of DBMS:
  - Data consistency
  - Reduced data redundancy
  - Improved data security
4. Examples: MySQL, Oracle, PostgreSQL, MongoDB.

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### Key DBMS Concepts

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#### 1. Data Models:

- Hierarchical Model
- Network Model
- Relational Model

#### 2. Schema and Instance:

- Schema: Structure of the database.
- Instance: Data present at a given time.

#### 3. Keys:

- Primary Key, Foreign Key, Candidate Key.

#### 4. Normalization:

- Process of organizing data to reduce redundancy.