Library Hour Report

Academic Year : 2023-24

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CLASS : TE(A) ROLL NO.: 13
TITLE OF BOOK/JOURNAL/MAGAZINE REFERRED: Database System Concepts , McGraw Hill Publishers, ISBN 0-07-120413-X, 6th edition
NAME OF AUTHOR(S): Silberschatz A., Korth H., Sudarshan S.
TOPIC: DBMS

Summary/Abstract :

A Database Management System (DBMS) is a software application that provides users with access to the data in a database. The DBMS is responsible for managing the data, ensuring its integrity and consistency, and providing efficient access to the data

SQL is the standard language for querying and manipulating relational databases. It is a powerful language that can be used to perform a wide variety of tasks, such as:

- Selecting data from tables
- Inserting, updating, and deleting data in tables
- Joining tables to combine data from multiple sources
- Creating and managing views, which are virtual tables that are based on other tables

Database design is the process of creating a database that is efficient and easy to use. Normalization is a technique used to ensure that database tables are well-designed. It involves breaking down large tables into smaller, more manageable tables.

Concurrency control is the process of managing concurrent access to the data in a database. It ensures that multiple users can access the database at the same time without interfering with each other.

Recovery is the process of restoring the database to a consistent state after a failure. This can be done by using a backup of the database or by using a recovery log, which is a record of all the changes that have been made to the database since the last backup.

Security is the process of protecting the database from unauthorized access, use, disclosure, disruption, modification, or destruction. This can be done by using encryption, access control lists, and other security measures.

Popular types of DBMS include relational databases (like MySQL, PostgreSQL), NoSQL

databases (like MongoDB, Cassandra), and NewSQL databases (combining elements of both).

DBMS plays a critical role in modern information systems, enabling businesses and applications to manage and utilize data effectively.

Name & Sign of Library Hour In-charge: