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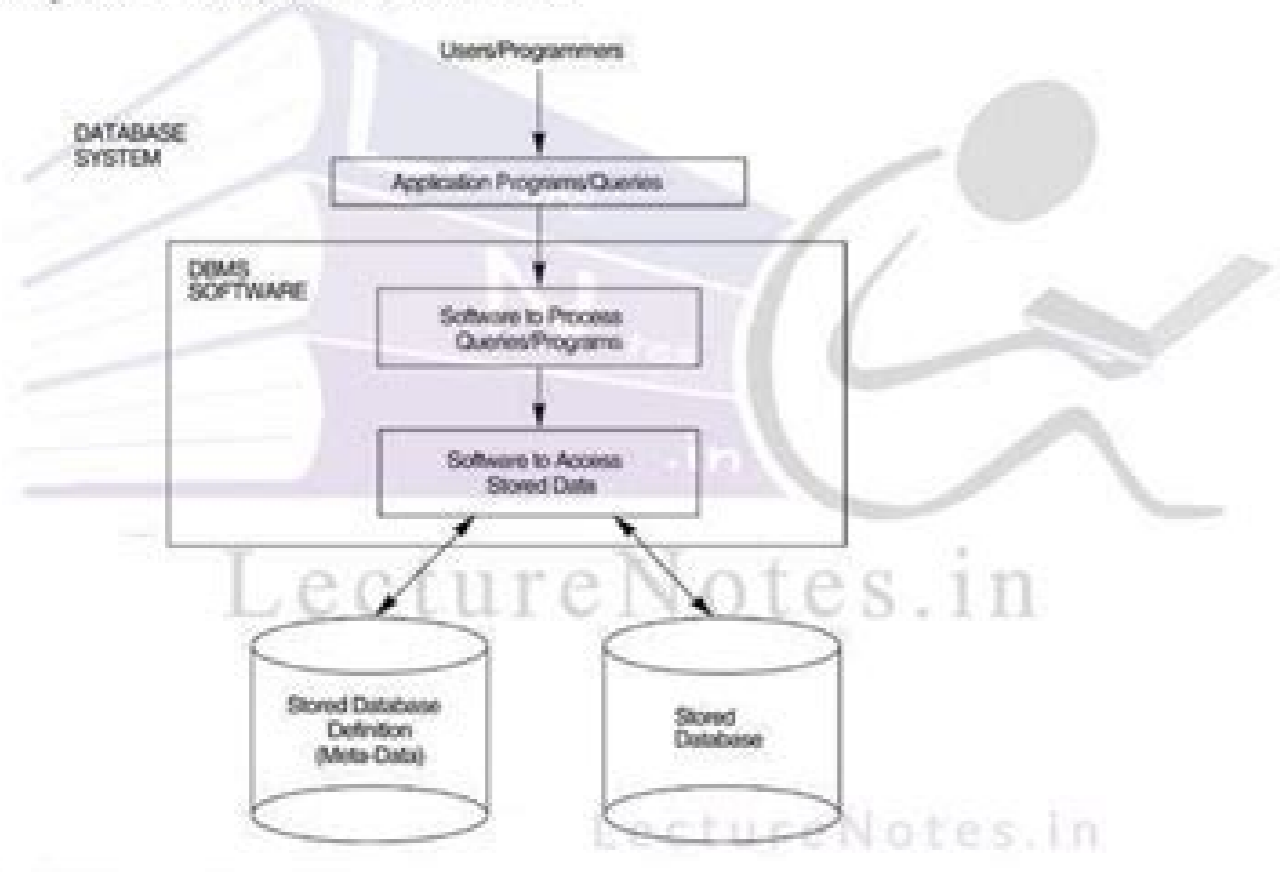


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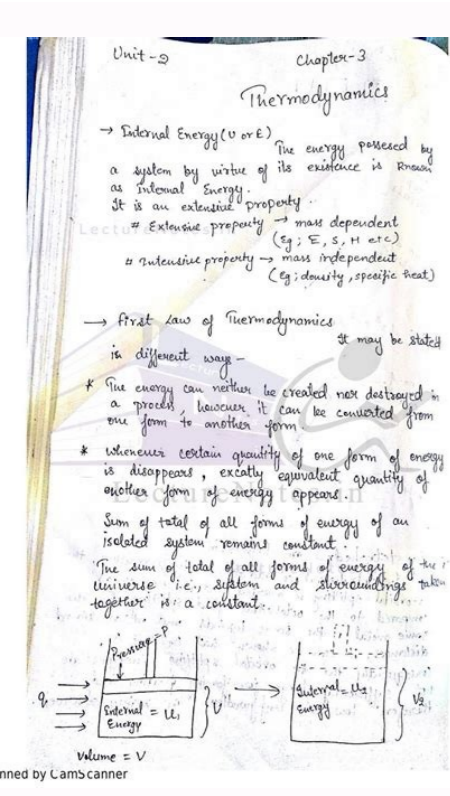
Books Referred: (1) Silberschatz, Korth, Sudarshan – Database System Concepts, 4th Edition
 (2) Bipin C. Desai – An Introduction to Database Systems.
 (3) Elmasri & Navathe – Fundamentals of Database Systems, 4th Edition

Database:
 ✓ It is a collection of interrelated data of an enterprise in a particular subject.
 ✓ It is a collection of data in an organized manner in a persistence media so that storing and retrieving data will be easier.
 ✓ Size of the database is not fixed & it can vary.
 ✓ A database can be generated and maintained manually or by computer.
 ✓ Example: Dictionary, Telephone Directory, Library Card Catalog.

DBMS:
 ✓ It is a collection of programs (software), which is used to create manipulate (insert, retrieve, delete, update) data in a database.
 ✓ It also facilitates the process of defining, constructing, manipulating and sharing databases among various users and applications.
 ✓ A DBMS is a 4th generation language.
 ✓ Example: Oracle, SQL Server, MS-Access



Application of Database System:
 ✓ **Banking:** For customer information, accounts, loans, transaction etc.
 ✓ **Airlines:** For reservation and schedule information.
 ✓ **Universities:** For student information, examination information, department information etc.
 ✓ **Credit Card Transactions:** For purchase through credit card and generation of monthly statement.
 ✓ **Telecommunication:** Keeping records of calls made, generating monthly bills, storing information about monthly bills, storing information about communication network etc.
 ✓ **Finance:** Storing information about sales & purchase of shares, stocks, bonds etc.
 ✓ **Human resource:** Storing information about employees, salaries, benefits etc.
 ✓ **Internet:** Storing user-id, password etc in a mailing system.



Java Network Programming

*** Computer Networks :-**
 It is a system in which two or more computer systems are interconnected in order to communicate with each other by following certain protocols.

*** Protocols :-**
 Rules, Regulations, Policies followed by the computer system.

*** http :- Hyper Text Transfer Protocol**
 This protocol is used to establish the connection between client and server.

http://www.yahoo.com

WWW – World wide Web
 Yahoo.com – its domain name

*** FTP – File Transfer Protocol**
*** SMTP – simple Mail Transfer Protocol**
*** TCP/IP – Transmission Control Protocol → Connection oriented Protocol**
*** UDP/IP – Connection less protocol**
 ↳ Internet protocol – responsible for sending packets User datagram from sender to receiver.
 protocol

* sender will get an acknowledgement from receiver.	* sender will not get any acknowledgement, receiver will send & forget.
TCP/IP	UDP/IP

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