Class 8th Computers

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Database Concepts

By Rashmi Prabha

teradata.

IBM DB2

Microsoft SQL Server

Amazon RDS

SQL

ORACLE DATABASE

MySQL

SQL

snowflake

PostgreSQL

SAP S/4 HANA

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Highlights of Previous class

- What is Data, Information.
- What is a Database?
- Types of Database.
- Database Management System (DBMS)
- What is RDBMS
- Applications of Database

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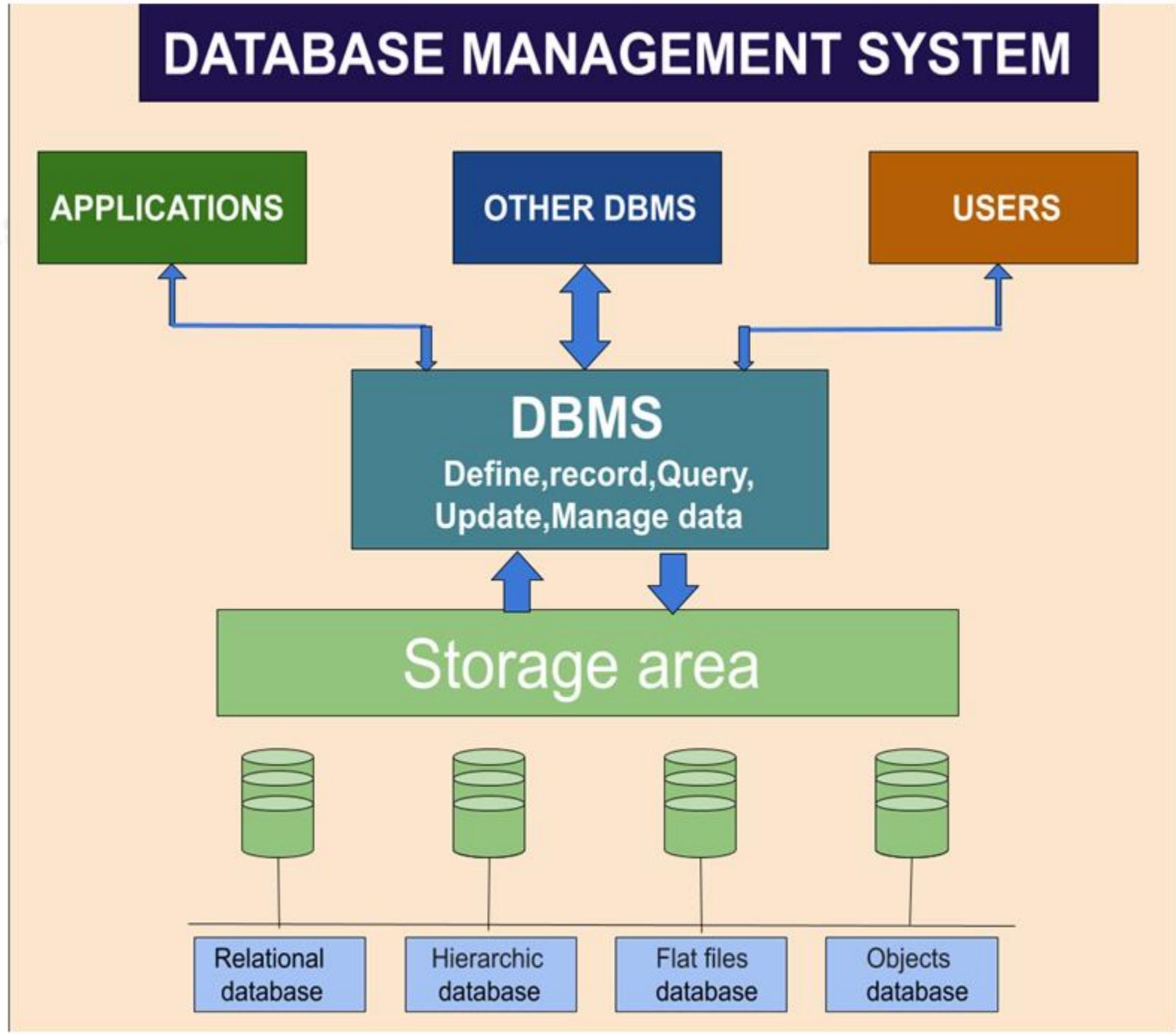
DATABASE MANAGEMENT SYSTEM
APPLICATIONS
OTHER DBMS
USERS
DBMS
Define,record,Query,
Update,Manage data
Storage area
Relational database
Hierarchic database
Flat files database
Objects database

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Today's Topic

- Types of Database in detail
- Features of Flat File
- Elements of DBMS
- Features of Rdbms

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Types of Databases

1. FLAT FILE
2. Relational Database

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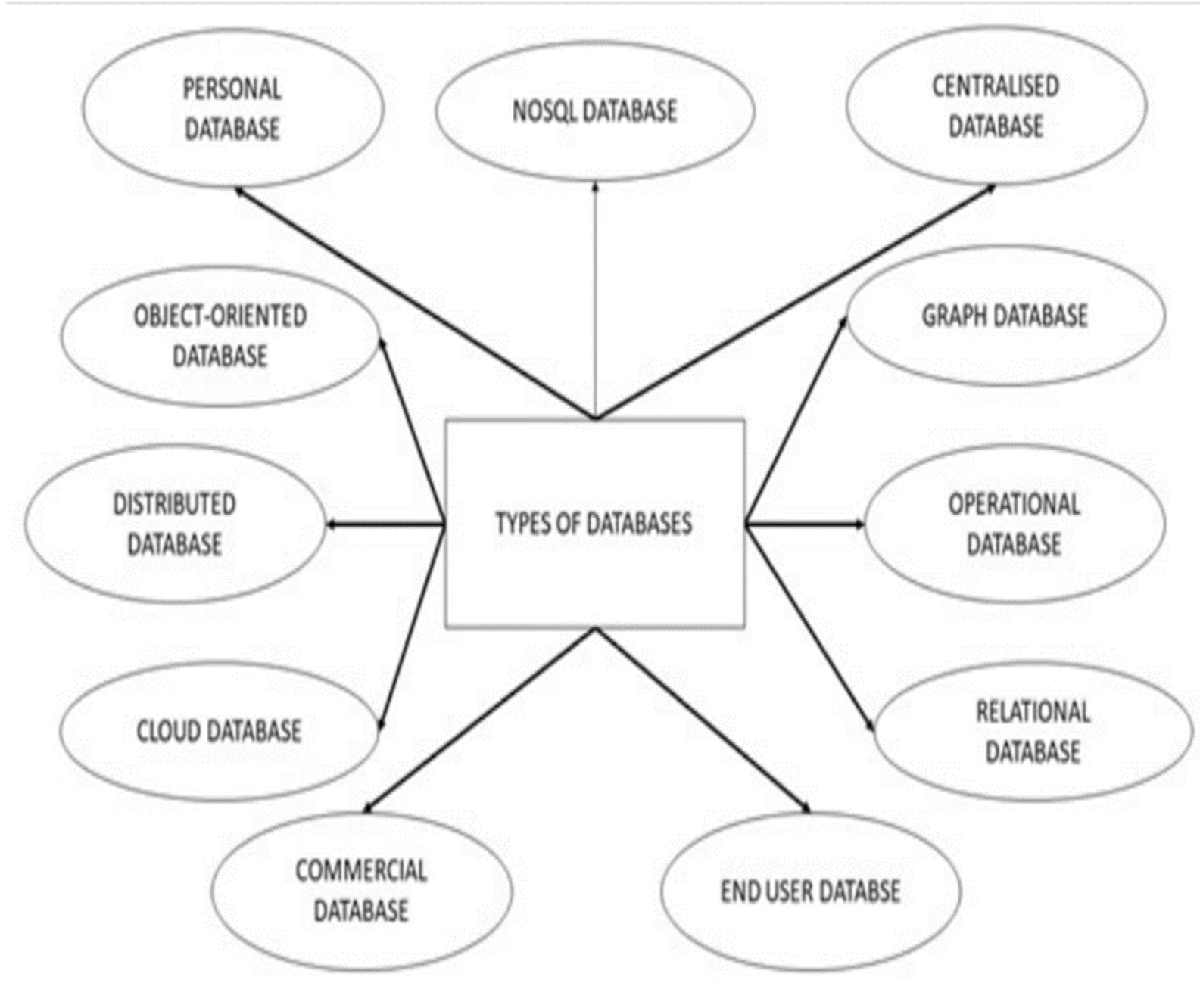
Types of Database



Flat File DBMS

Student Roll No	Student Name
1	Abhi
2	Ram
3	Kanica
4	Shivani
5	Akash
6	Khusbu

Table
Row
Column
Data

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Features of flat file database

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1. All records are stored in one place.
2. Easy to set up using a number of standard office applications.
3. Easy to understand.
4. Simple sorting of records can be carried out.
5. Record can be viewed or extracted on the basis of simple criteria.

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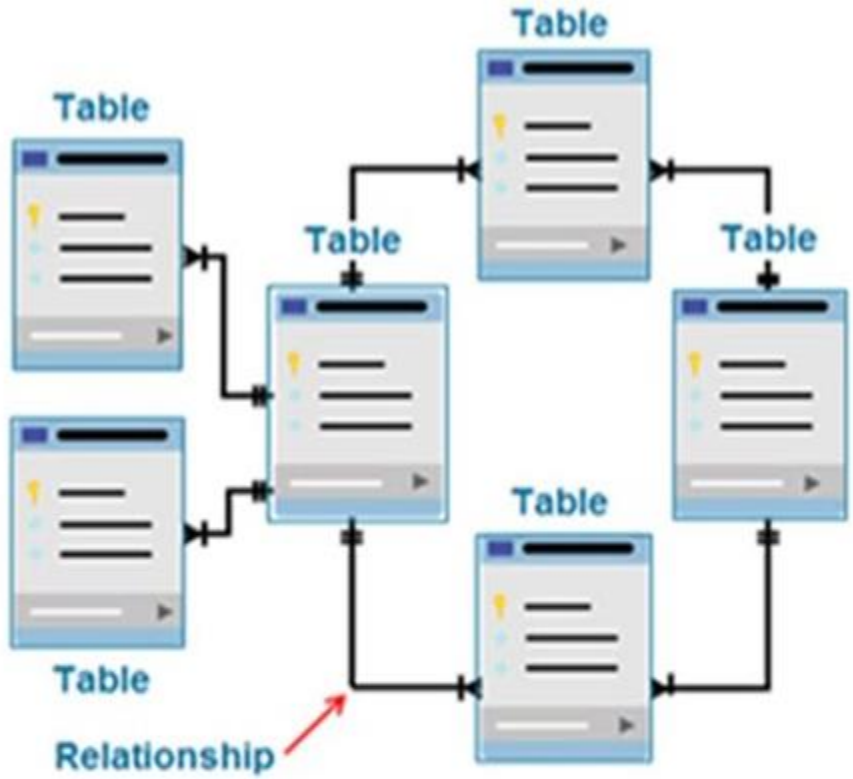
Example
Excel
Google Sheet

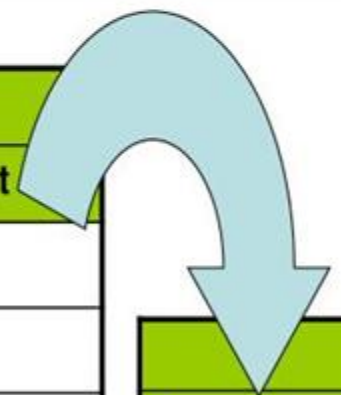


RDBMS

Relational Databases

Databases – Flat File Vs Relational Database

Name	Department	Boss	Phone
Smith	Sales	Britney Lurgi	9123 456
Jones	Sales	Britney Lurgi	9123 456
Lennon	Sales	Britney Lurgi	9123 456
Sade	Transport	Tom Brick	9876 543
Masoch	Transport	Tom Brick	9876 543



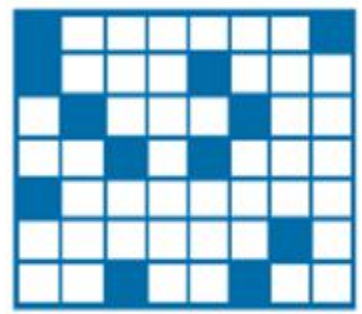
+ No unnecessary data repetition

+ Department info easily modified in *one* operation.

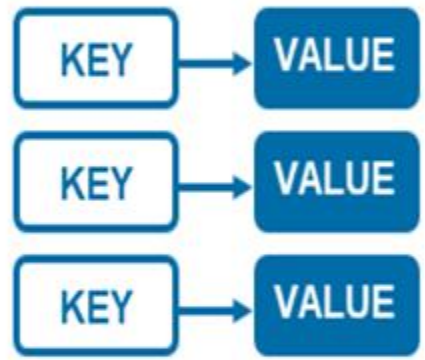
STAFF TABLE	
Name	**Department**
Smith	Sales
Jones	Sales
Lennon	Sales
Sade	Transport
Masoch	Transport

DEPARTMENTS TABLE		
Department	**Boss**	**Phone**
Sales	Britney Lurgi	9123 456
Transport	Tom Brick	9876 543

Non-Relational Database Types



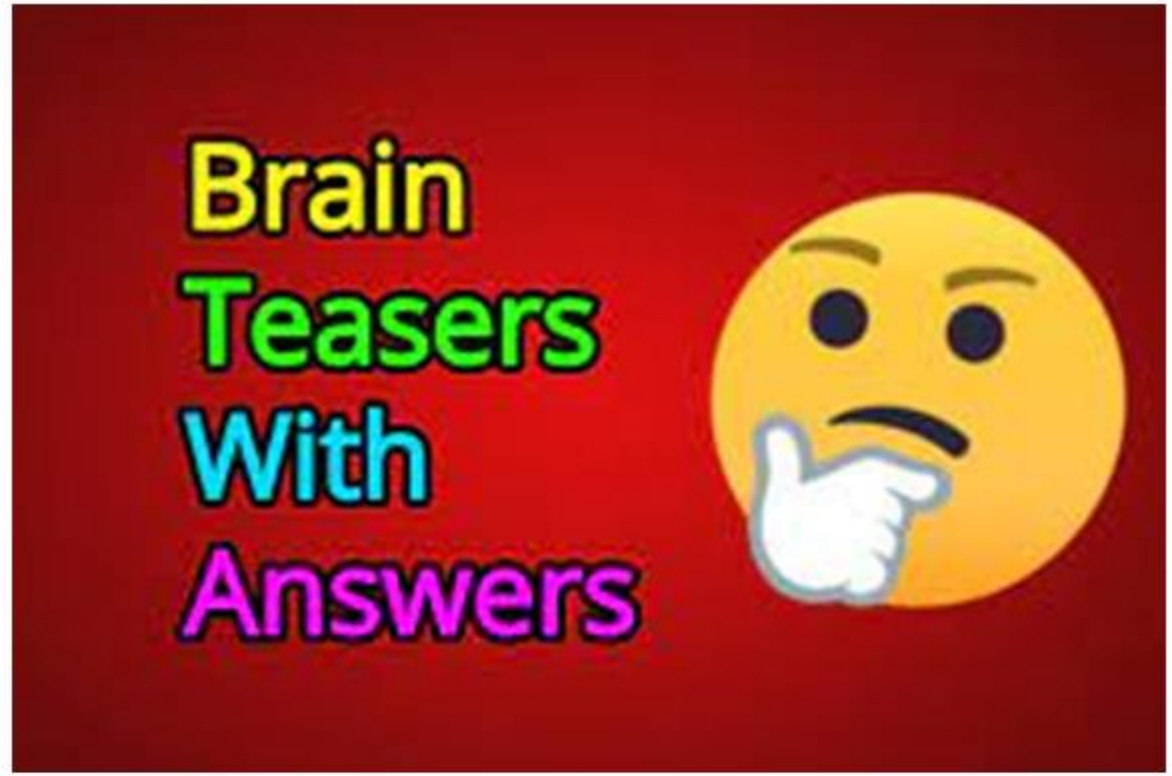
Column based



Key-value

Graph

Document



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Q) What does "flat file" refer to?

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A. A type of database storage method where all of the data elements are stored on top of each other

B. A fully-relational database system like Microsoft's SQL Server or Oracle's database systems

C. Non-relational systems that typically store each table and index in separate files and often do not support the SQL language

D. None of the above

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A. A type of database storage method where all of the data elements are stored on top of each other

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C. Non-relational systems that typically store each table and index in separate files and often do not support the SQL language

D. None of the above

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Q2) Which of the following statements is true?

A. Flat file database systems pay more attention to retrieving data and making it accessible to the user, whereas relational databases spend more energy updating indexes and data pointers.

B. Relational database systems are the main thrust behind SQL since it provides the language elements needed to tie together the information in the database.

C. Relational systems pay more attention to retrieving data and making it accessible to the user.

D. Both B and C

Q2) Which of the following statements is true?

A. Flat file database systems pay more attention to retrieving data and making it accessible to the user, whereas relational databases spend more energy updating indexes and data pointers.

B. Relational database systems are the main thrust behind SQL since it provides the language elements needed to tie together the information in the database.

C. Relational systems pay more attention to retrieving data and making it accessible to the user.

D. Both B and C

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Q3) Which type of data can be stored in the database?

a) Image oriented data
b) Text, files containing data
c) Data in the form of audio or video
d) All of the above

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Q3) Which type of data can be stored in the database?

a) Image oriented data
b) Text, files containing data
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d) All of the above

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Q4) In which of the following formats data is stored in the database management system?

a) Image
b) Text
c) Table
d) Graph

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Q4) In which of the following formats data is stored in the database management system?

a) Image
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c) Table
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Q5) Which of the following is not a type of database?

a) Hierarchical
b) Network
c) Distributed
d) Decentralized

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Q5) Which of the following is not a type of database?

a) Hierarchical
b) Network
c) Distributed
d) Decentralized

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Different types are:

1) Centralized
2) Distributed
3) Relational
4) NoSQL
5) Cloud
6) Object-oriented
7) Hierarchical
8) Network

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Q) Which of the following is not a function of the database?

a) Managing stored data
b) Manipulating data
c) Security for stored data
d) Analysing code

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Q) Which of the following is not a function of the database?

a) Managing stored data
b) Manipulating data
c) Security for stored data
d) Analyzing code

Q) Which of these would especially suit a flat file database?

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1. A spreadsheet

2. A bunch of 'parent-child' relationships

3. Data dependent on other data

4. Data that links to multiple tables

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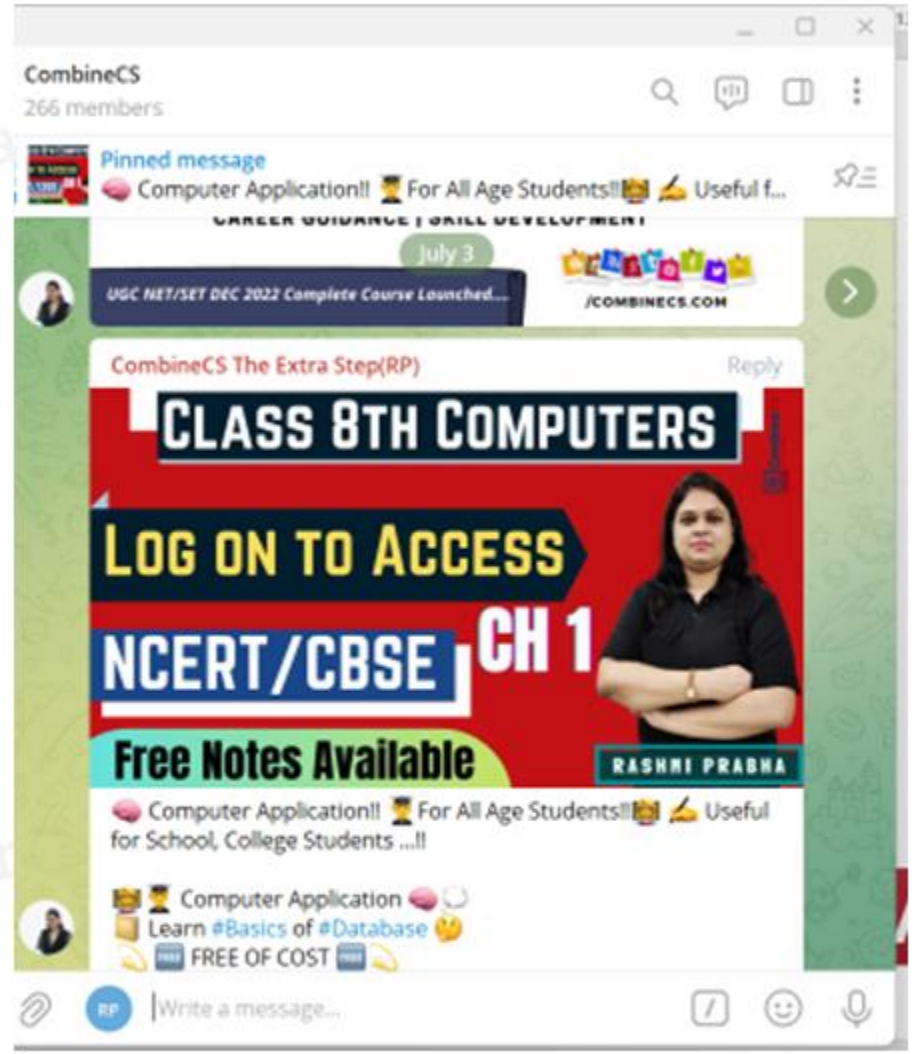

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