Unit :- 2

- File types:- MP3, LUAN, LALARA, MP4, 3GP Storing digital video data on a computer Video file: - Is a type of file format for Systemy
- storing digital audio data on a computer system. Audio file: - Is a type of file format for
  - FILE types: MP3 , WAN, WMA.

Types of File Openation. Fight



A directory is a location for storing files on a computer. Disectory:

- It's a file system cataloging stauctures that contains references to other files or directories

Patabases:-

so that it can be basily accessed and managed A database is an organized collection of data,

A relational database is a type of database that stores What is relational database? and provides access to data points that ane related to one another.

Types of Stonage Device: 2) secondary stadage:-1) Primary storage:

1) Primary storage: - Refers to the main premary such as random Vaccess memory: (RAM) Paimany stangages are connected through data RAM, cache Memority buses to colu Example :-

connected through Secondary standof and cables to UCPUL. Secondary Stonage:

3

non-volatile. Example: - CD, UDVD, Hard Disk Secondary storage device is a

What is a storage Medium? How many types of storage Medium ? \*

to place, stonage moldium is any technology including devices and material used Keep and retrieve electronic data.

There are 4 types of storage medium. 1) Semiconductor Storage: . It is used as computer memory.

FX: - RAM and ROM



Magnetic tapeix a medium for magnetic recording made of thin (thin), narrow strip of plastic 2) Magnetic Stonage:-

Ex: - Floppy Disk, Hand Disk

and retailed to data from optical 3) Optical storage: - Storage method that uses a lase's to stone media.

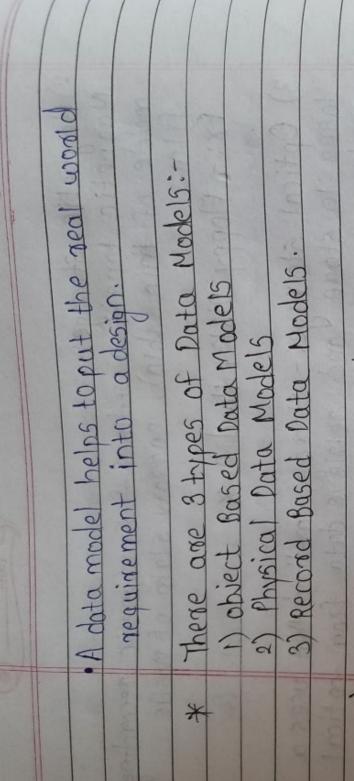
Ex:- CD, DND

4) Pape Data Storage: - Use of paper as a data Storage device. O Punch confor ordered

It is a software for creating and managing what is a DRM5?

. It is a very large, integrated collection of data. databases.

plant is a pata Models? olata models.



The data is divided into multiple entities eachof them have some defining characteristics. object Based Data Models:-

The properties of these entities are their Is used to real life scenarios as entities attributes in the ER diagram and their Connections are shown in the form of Two types of object based data Models:-1) Entity Relationship model:-Delationship.

The objects with similar functionalities are The scenarios are represented as objects. linked to different 2) object oriented Data Model: other objects



mimany Key is either an existing table coumn or a What is paimany key? Primany key (Table level database according to a defined sequence.

\* Note:-

Relation: - Represented by diamond symbol.

There are three types of cardinality of relationship. 1) One to one:-

A Single now of first table associates with single of second table.

March of the Mensitaly

2) one to Many:

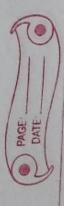
with A Single acus of first table associates than one downs of second table.

Many mounts of the first table associate with many rows 3) Many to Many :second table

implemented, or intended to be implemented It is a representation of a data design as what is a physical data model? 3)\*

- There are 3types of record based mode)

  1) Hierachical Data Model:-Record Based Model:-
  - · Supports one Many relationship.
- Single pagent -child relationship difficult to navigate through the child.
  - · Based on the physical storage details.
- 2) Network Pata Models:-
- · supports both and to many and Many many melationship.
- objects, hence easy to access compared The relationship Atween most of the to hierachical model.
  - Pased on the physical storage details.
- 3) Relational Data Hordels:
- one to many and many to . Su pports both many delationship



It provides sal, which makes the access to Based on the to logical data view. the data simpler and quicker.

Normalization:-

to a void data uned wildancy, insertion anomaly A process of organizing the data in database update anomaly and deletion anomaly.

There are 4 types of Mormalization. JNF .-

A relation is in the if it contains on atomic value.

2NF:-

A relation will be in ant if it is in the and all non-ke attribute are fully functional dependent my Key.

A metation will be in 3 NF if it is in 2 NF and no transition dependency exists. 3) 3NF:-

an ad vance version of 3NF that's why it is stricter than 3NF. elega ed 05 BCNF:

BCNF



These databases stone data relating to the operations Vinnani There are 6 types of database 1) Operational Database:of the enterprise.

## 2) End-User Database:

- · Databases are shared by useds.
- · Contain information meant for use by the end-users.

## Centralized Database:

- · Natabase store the entire information and application pringrams at a central computing facility.
  - Users at different location ackess database:

## 4) Distributed Database:-

- · Data is distributed at various sites.
- Pepular The client server technology is most for managing distributed database.

## 5) Personal Database: -

- Maintained on personal computer
- Contain information meant for limited number of users



to usens as a commencial Access to provided to users as a commercia Commercial Database: database. 9

Databases are subjected specific and access to these Database is sold as a paid service

to its used.