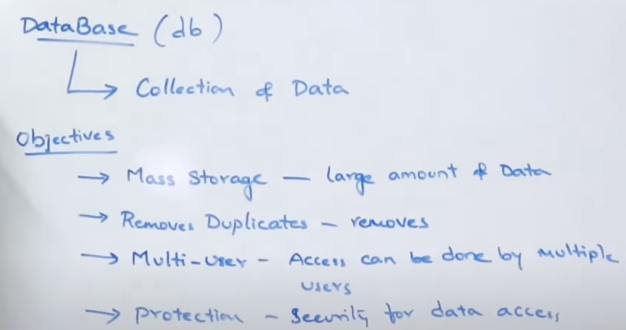
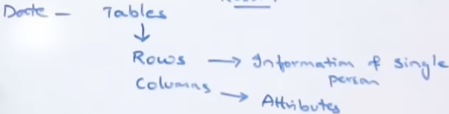
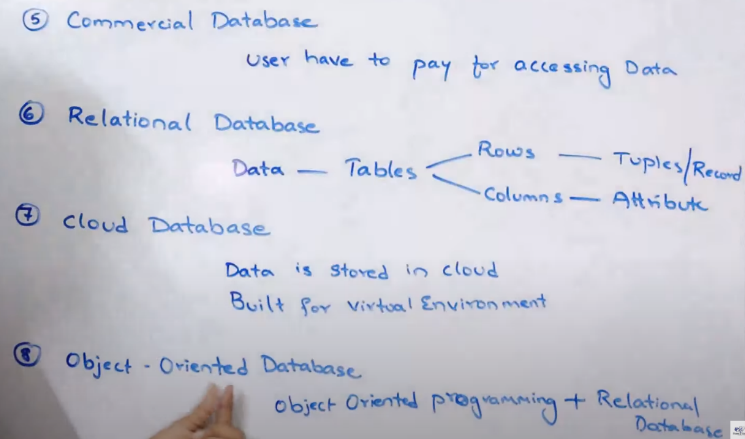
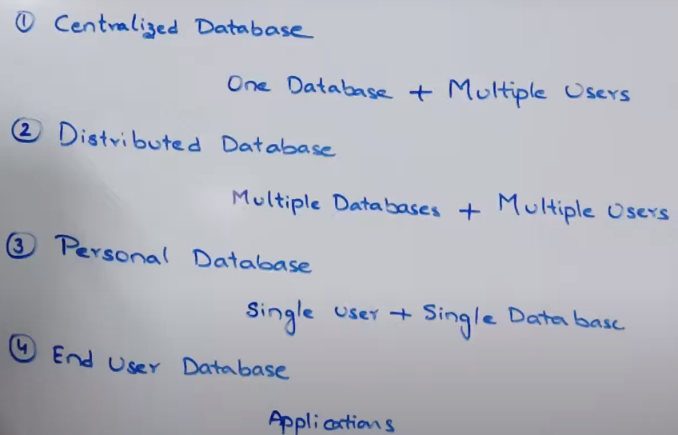
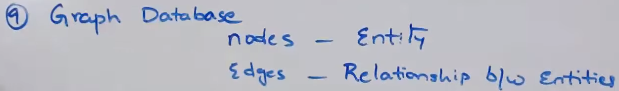
**DBMS**

Data is an unorganised/unprocessed Information and Database is used to organize the and store the Data and DBMS is a software/tool used to manipulate/manage the Database (Eg, Oracle,Mongo DB, My SQL,etc).

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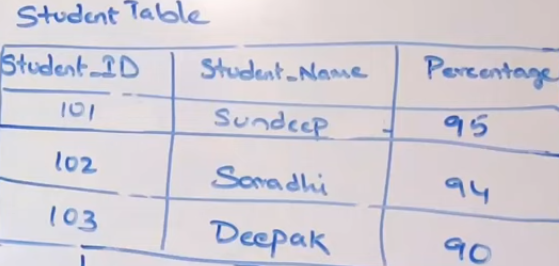
In DBMS complete data is stored in the form of Tables.

******Types of Databases**

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**RDBMS**(Relational Database Management System)

In RDBMS data is stored in the form of tables where each row is called as Tuples/Records and Columns as Attribute

**Tuples rules**: 1. Duplicates are not allowed in Tuples mtlb assume tuple 1 me sundeep ka data h and same data not allowed in other Tuples.

2. Tuples should follow same format.(Eg tuple me id, name, percent h to agle tuple me bhi yahi order se hona chahiye)

**Attribute rules:** 1. Should have name (vo attribute kya store kr raha h). Above Attribute 1 stores Student\_Id, 2 -> name, 3-> Percent.

2. To identify a tuple there is a unique attribute called Primary key which stores only unique value. Eg, above id is a primary key since id is unique for every student but not the name and percent.

**Basic Terminology in RDBMS**

**Data Item/ Cell Data** Intersection of Tuple and attribute. (hr ek dabbe me stored data). Eg 101, Deepak, 95,etc. It must have single value only. Eg Deepak,Ramesh ek cell me nhi ho sakte.

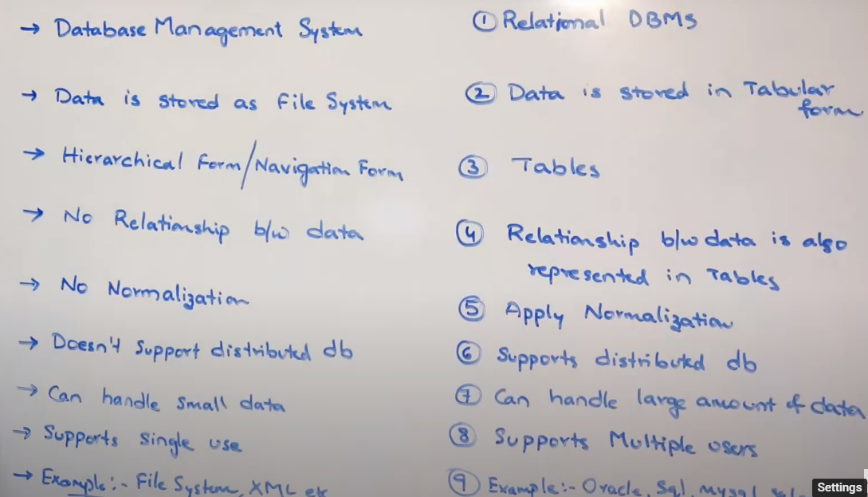
**Cardinality:**  No. of Tuples in a table. Eg above 3

**Degree :**  No. of Attributes in a table. Eg above 3

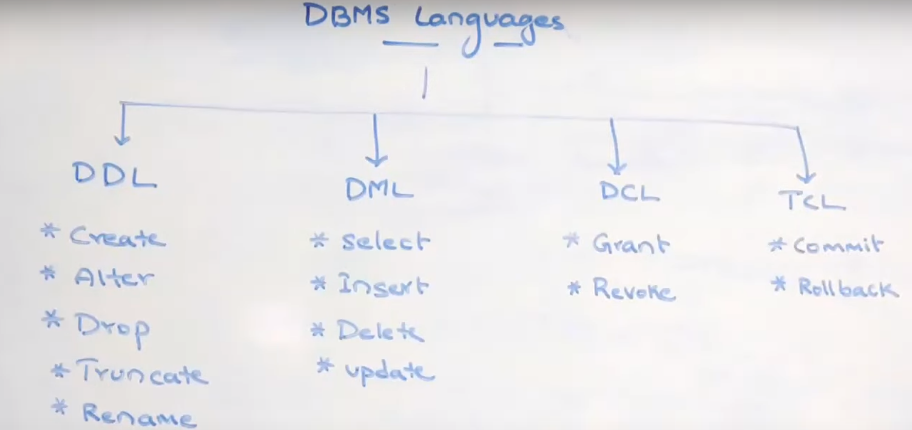
**Domain:** Range of values from which value for an attribute is selected. Eg, In percent Domain -> (0,100)

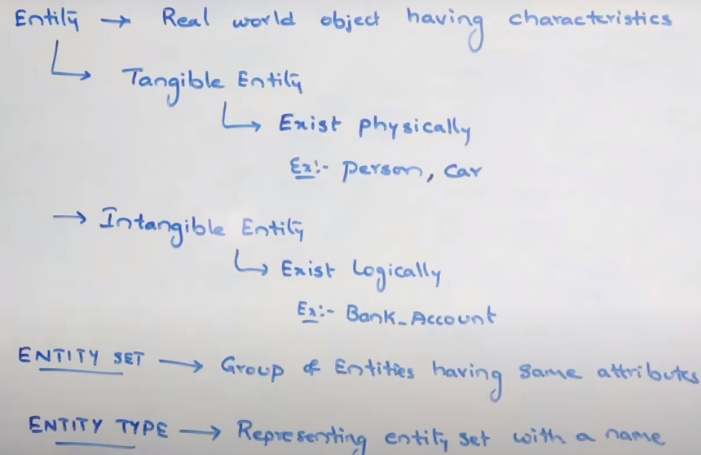
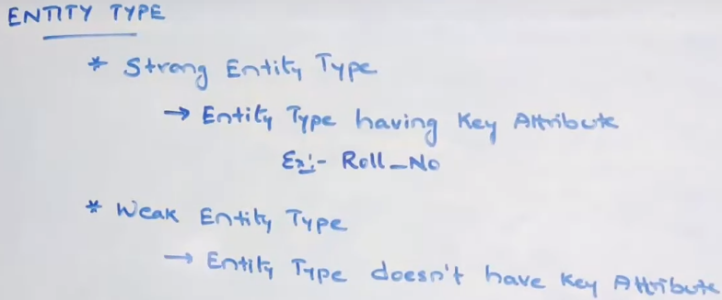
**NULL Value:** Cell without any value is set to NULL. It doesn’t mean 0 or blank space. Primary key can’t be set to NULL.

**Difference between DBMS and RDBMS**

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Schema is a structure/design which the database follows



**Entity**

Note: Weak Entity takes help of Strong Entity to identify the records.