

## 1 DBMS

- \* Stores the data file
- \* It supports 1 user at time
- \* It doesn't support non-normalization
- \* It doesn't support client-server architecture
- Ex: XML, file system etc.,

## RDBMS

- \* It stores data in form of table
- \* Multiple users can access at time
- \* It supports normalization
- \* It supports client-server architecture
- \* Ex: SQL server etc.,

2. No we don't take both of the above as same Reason: Because, null indicates that there is no value with a field for a given created in database. It does not mean that the value is zero. Blank space states that there is a value in database but the field is blank.

3. DROP command is used to delete a whole database or just single table. It removes a component from RDBMS.

	Difference	Truncate	Drop
Command-	DML	DDL	DDL
Rollback	Can be on	Cannot	No

## 4. \* Microsoft SQL Server

- \* Oracle Database
- \* MySQL
- \* MongoDB

## \* IBM DB

## \* PostgreSQL

5. OpenSource: It refers to S/W whose source code is available for every user to use & modify.



DBMS Available: MySQL, MongoDB, Redis, CouchDB, SQLite.

6. Constraints: are used to specify rules for data in table. It is used to limit data inside table.

a. not null: It restrict columns in table from having null value.

b. PK: It helps to retrieve query results from table.

c. FK: prevents action that destroy links between tables.

d. check: Ensures that the value in column satisfies a specific condition.

7. Drawbacks:

- \* Slow access time, difficult to access data.
- \* Unauthorized access
- \* Poor data security
- \* Wastage of space
- \* Data inconsistency

8.

9. Tools: Creately, ERD Plus, DrawSQL, Quick DBD, ER Draw Max, DB Diagram, Text to diagram



10 users of DB: Database Administrator.  
System Analyst  
Database Designers  
App<sup>n</sup> Programmers  
Temporary users  
Specialized users

8. ER  
\* It stands for entity  
relation model

\* High level.

\* Entities, attributes,  
relationship are  
components here.

\* used to see how well  
data is performed.

EER  
\* Extended ER Model.

\* Representational

\* Here table columns,  
domain records are  
components.

\* used to see where the  
data is stored.