

# DAY 1

Thursday, July 16, 2020 9:35 AM

## SQL ( STRUCTURED QUERY LANGUAGE )



## DATABASE

What is DATA ?

*"Data is a raw-fact which describes the attributes of an Entity".*

### Properties or Attributes

The form is titled "Create a new account" and includes the following fields:

- First name and Surname (two adjacent input fields)
- Mobile number or email address
- New password
- Birthday (dropdown menu showing 18, Jun, 1995)
- Gender (radio buttons for Female, Male, Custom)
- A "Sign Up" button at the bottom

Annotations with arrows point to each of these fields.

I am creating an account for myself :

#### Attributes

First name : Rohan  
Surname : Singh  
Phone number : 9876543210  
Password : Rohan@123  
Dob : 14-MAY-199X  
Gender : MALE



Brand : Dell  
RAM : 8gb  
Touch : no



Brand : Apple  
RAM : 16gb  
Touch : yes

Example : Water Bottle

#### Entity

Height : 20cms  
Color : blue  
Capacity : 500ml

#### Attributes

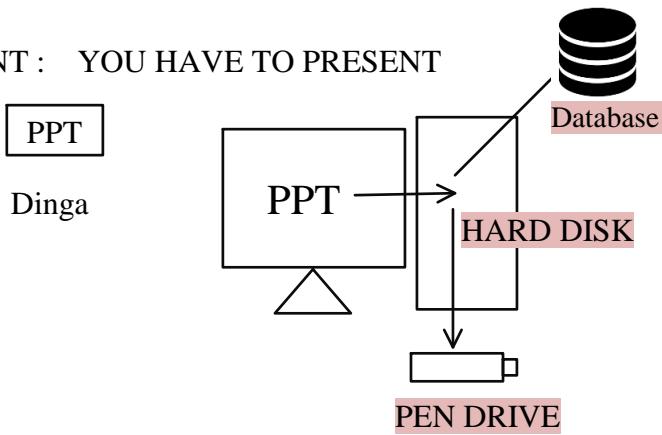
#### Contacts

Name : Dinga  
Phone : 108  
DOB: 14-feb-95

## DATABASE :

**"Database is a place or a medium in which we store the data in a Systematic and organized manner "**

STUDENT : YOU HAVE TO PRESENT



- The basic operations that can be performed on a database are

- CREATE / INSERT
- READ / RETRIEVE
- UPDATE / MODIFY
- DELETE / DROP

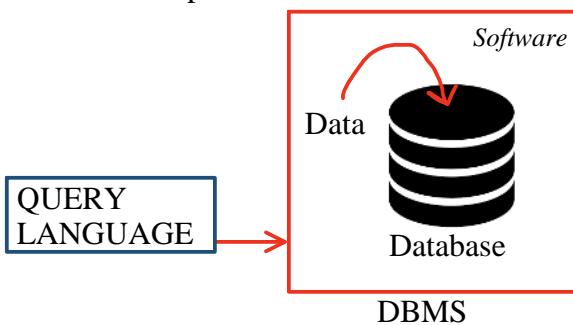


- These operations are referred as "**CRUD**" Operations .

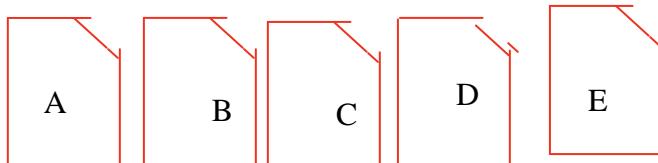
### **DATABASE MANAGEMENT SYSTEM ( DBMS ) :**

"It is a software which is used to maintain and manage The database "

- **Security** and **authorization** are the two important features that DBMS provides .



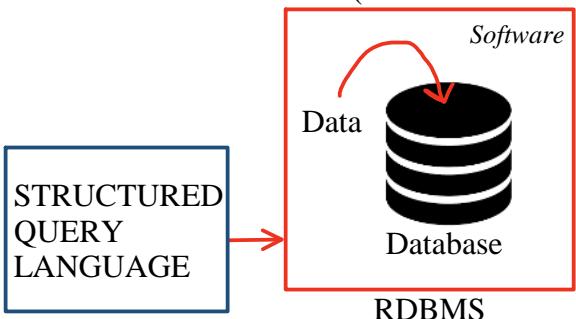
- We use query language to communicate or interact with DBMS
- DBMS stores the data in the form of *files* .



### **RELATIONAL DATABASE MANAGEMENT SYSTEM ( RDBMS ):**

"It is a type of DBMS software in which we store the data

In the form of Tables ( rows & columns ) ".



- We use **SQL** to communicate or interact with **RDBMS**
- RDBMS stores the data in the form of *Tables*.

Example :

<u>Names</u>
A
B
C
D
E

Notes link : [bit.ly/roSQLQCDM34](http://bit.ly/roSQLQCDM34)  
Mail ID : [ro.helpmate@gmail.com](mailto:ro.helpmate@gmail.com)  
Instagram : [ro\\_sql\\_helpmate](https://www.instagram.com/ro_sql_helpmate/)