git clone URL : this command is use to download remote repository to local machine.

Git clone URL: this command is use to download new repository from remote to local

You need to move inside a repository using command as cd repositoryfoldername

Using pwd command please check the path of terminal

Then git pull this command is use to download new contents from remote to local existing repository.

Database

Program: set of instruction to perform a specific task.

Application: we creation program or app using java, python, C or C# etc.

Input : keyboard(console base, GUI or mobile base etc) enter value of a and b

Process compute: sum = a+b;

Output display the output (console, gui or mobile screen)

We can store the data.

File base system

Database system

File handling program

Limitation of file base system

- 1. Data redundancy (means we can store data again and again)
- 2. Data inconsistency (files format of the file and type of file)

Emp.txt

Id,Name,Salary

1,Steven,12000

2,John,16000

Emp.doc

Id Name Salary

1 Steven 12000

2 John 16000

Id/Name/Salary

1/Steven/12000

2/John/16000

Database

Data : raw fact

Information : processed data or meaningful data.

Database : storing the data in table format

DBMS : database management system : it is a software which help to store the data in table format.

RDBMS : Relational database management system

<mark>Trainer</mark>

PK(primary key) if column is pk that column doesn't allow duplicate as well as doesn't allow null value. (we can't leave empty)

PΚ

TId	TName	tech
1	Raj	Java
2	Raj	Java
3	Ravi	Pythor

Student

PΚ

Sid	SName	age	TId	TName	tech
100	Reeta	21	1	Raj	Java
101	Meeta	22	3	Ravi	Python
102	Keeta	23	1	Raj	Java
103	Veeta	24	2	Raj	Java

Student

PK FK(Foreign Key) it is use to connect pk of same or different table if column is FK that column allow only those values present in pk. FK can allow duplicate value as well as it allow null value.

PK			FK	
Sid	SName	age	TSID	(Link with Trainer table with Tld PK)
100	Reeta	21	<mark>1</mark>	
101	Meeta	22	3	
102	Keeta	23	<mark>1</mark>	
103	Veeta	24	2	
104	Leeta	25	null	

RDBMS

Databases Name	Company			
MySQL	Sun micro system /oracle			
<mark>Oracle</mark>	oracle			
Db2	IBM			
SQL Server 2021	micro soft			
All RDBMS database use SQL (St	ructured Query Language)			
SQL use commands or English st	atement to interact with RDBMS databases			
80 to 90 SQL query are same in all databases but if we move from one database to another database				
10% query get changes.				
MySQL is a type of an open soul	rce database which support RDBMS features.			
Open source : freely provide that tool or software.				
Once we login to mysql Database using command as				
Open the terminal				
sudo mysql -u root				

by default mysql user name is root.

We can connect mysql database using two ways

- 1. Command line (CLI)
- 2. GUI (Workbench)

MySQL Commands

show databases; it will display all databases present in root login.

database: it is like a container which hold more than one table details.

use databasename; this command is use to move inside particular database.

show tables; this command is going to display all tables present in current database.

create database databasename; it is use to create user defined database.

create database mydb;

Product		
Employee		
Customer		
Account		
Person		
Manager		
Car		
Bike		
Demo		
Employee	: attribute or p	property or column
PK		
Data tuna i	data type is a	type of data which tells what type of value it can hold or store
Data type :	aata type is a	
int	varchar(10)	int
int		
int PK	varchar(10)	int
int PK	varchar(10)	int
int PK Empld	varchar(10) Name	int
int PK Empld	varchar(10) Name	int Age
int PK Empld create table ta	varchar(10) Name bleName(colum	int Age
int PK Empld create table ta	varchar(10) Name bleName(colum	Age nnName datatype primary key, columnName datatype)