MySQL

**Database**: it is an application which comes the collection of data

* Each database has one or more distinct API’s for creating, managing, searching and replicating the data
* File : un changes / can’t update / can’t organize the data in the files

API – Application programming interface

Excel-security, storage

DBMS: Database management system

* Store the data in the form of tables

**Challenges of DBMS:**

* Realtime is not possible for accessing the data RDBMS : relations DBMS
* We can store the data in the form of tables and can also map them from locations
* It will retrieve the dat a vert Fastly
* Operations will be very effective

**Database**: the databases are 2 types

1. RDBMS

2.Non- RDBMS : store the data in the form of key-values (JSON format)

**MySQL database**: my sql with sql (structural query language) which refers to servers platform.

* To create a project we need

1. Frontend to -view the data
2. Back end – interactions b/w the data and programming
3. Database storage : provides space to store the applications

**Database components**: the database components are 2 Types

1.Client

2.server

**My SQL uses 2 types of commands;**

1.DDL Commands: Data definition language

2.DML Commands: Data manipulate language

**1.DDL Commands:**

* Create – >to create a d/b , table
* Alter – >update – add a row/column
* Drop -> delete the records from the data base
* Truncate -> remove the records from the table.
* Rename -> rename the table or records in the existing database

**2.DML Commands**:

* Insert -> insert data into table
* Update-> update the existing data with in a table
* Delete-> delete the records from the database
* Call – PL/SQL java programming table

**Data Types:**

* CHAR (size) – a fixed length string characters are allowed
* VARCHAR(size) – a variable string length
* Binary( size) – equal to CHAR default it will be 1.
* TEXT(size) – it’s held the string of maximum length of 255
* TINY TEXT- it’s held the string of maximum length of 255

**Database Process:**

Create database santosh;

Show databases;

Use devops;

Show tables;

Create table Employees( Emp\_id int(10), Emp\_name varchar(30), Emp\_role varchar(45));

Insert into Employees values(1,’Devi’,’Team lead’),(2,’Santosh’,’Trainee’);

My SQL Script:

* Create database santosh;
* Use santosh;

**Table 1. mern\_stack:**

* Create table mern\_stack(Emp\_id int(30),Emp\_name varchar(45), Emp\_role varchar(45),Emp\_age int(30), Emp\_email varchar(240));
* insert into mern\_stack values(1,'santosh','MERN stack developer',24,'santosh@gmail.com'),

(2,'gopinadh','MEAN stack developer',23,'gop@gmail.com'),

(3,'manibabu','MERN stack developer',24,'mani@gmail.com'),

(4,'hari','MEAN Stack developer',23,'hari@gmail.com'),

(5,'vignan','MERN Stack developer',21,'vignan@gmail.com'),

(6,'ganesh','MEAN Stack developer',23,'ganesh@gmail.com'),

(7,'jeevan','MERN Stack developer',25,'jeevan@gmail.com'),

(8,'srinu','MEAN Stack developer',23,'srinu@gmail.com'),

(9,'satish','MERN Stack devloper',25,'satish@gmail.com'),

(10,'sekhar','MEAN Stack developer',30,'sekhar@gmail.com');

**Table 2.backend:**

* Create table backend (Emp\_id int(30),Emp\_name varchar(45), Emp\_role varchar(45),Emp\_age int(30), Emp\_email varchar(240));
* insert into backend values(1,'santosh','java developer,24,'santosh@gmail.com'),

(2,'gopinadh',’python developer',23,'gop@gmail.com'),

(3,'manibabu',’java developer',24,'mani@gmail.com'),

(4,'hari',’python developer',23,'hari@gmail.com'),

(5,'vignan',’java developer',21,'vignan@gmail.com'),

(6,'ganesh',’java developer',23,'ganesh@gmail.com'),

(7,'jeevan',’python developer,25,'jeevan@gmail.com'),

(8,'srinu','java developer',23,'srinu@gmail.com'),

(9,'satish','python devloper',25,'satish@gmail.com'),

(10,'sekhar','java developer',30,'sekhar@gmail.com');

**Table 3.devops:**

* Create table devops (Emp\_id int(30),Emp\_name varchar(45), Emp\_role varchar(45),Emp\_age int(30), Emp\_email varchar(240));
* insert into devops values(1,'santosh','devops engineer,24,'santosh@gmail.com'),

(2,'gopinadh',’devops engineer’,23,'gop@gmail.com'),

(3,'manibabu',’devops engineer’,24,'mani@gmail.com'),

(4,'hari',’devops engineer’,23,'hari@gmail.com'),

(5,'vignan',’devops engineer’,21,'vignan@gmail.com'),

(6,'ganesh',’devops engineer’,23,'ganesh@gmail.com'),

(7,'jeevan',’devops engineer’,25,'jeevan@gmail.com'),

(8,'srinu','devops engineer’,23,'srinu@gmail.com'),

(9,'satish','devops engineer’,25,'satish@gmail.com'),

(10,'sekhar','devops engineer’,30,'sekhar@gmail.com');

**Table 4.frontend:**

* Create table frontend (Emp\_id int(30),Emp\_name varchar(45), Emp\_role varchar(45),Emp\_age int(30), Emp\_email varchar(240));
* insert into frontend values(1,'santosh','react developer’,24,'santosh@gmail.com'),

(2,'gopinadh',’angular developer’,23,'gop@gmail.com'),

(3,'manibabu',’web developer’,24,'mani@gmail.com'),

(4,'hari',’frontend developer’,23,'hari@gmail.com'),

(5,'vignan',’wordpress developer’,21,'vignan@gmail.com'),

(6,'ganesh',’angular developer’,23,'ganesh@gmail.com'),

(7,'jeevan',’vue developer’,25,'jeevan@gmail.com'),

(8,'srinu','react developer’,23,'srinu@gmail.com'),

(9,'satish','angular developer’,25,'satish@gmail.com'),

(10,'sekhar',’web engineer’,30,'sekhar@gmail.com');

**Table 5: full\_stack**

* Create table full\_stack (Emp\_id int(30),Emp\_name varchar(45), Emp\_role varchar(45),Emp\_age int(30), Emp\_email varchar(240));
* insert into full\_stack values(1,'santosh',’full stack java developer’,24,'santosh@gmail.com'),

(2,'gopinadh',’full stack python developer’,23,'gop@gmail.com'),

(3,'manibabu',’full stack dot net developer’,24,'mani@gmail.com'),

(4,'hari',’fullstack developer’,23,'hari@gmail.com'),

(5,'vignan',’fullstack python developer’,21,'vignan@gmail.com'),

(6,'ganesh',’fullstack java developer’,23,'ganesh@gmail.com'),

(7,'jeevan',’fullstack dotnet developer’,25,'jeevan@gmail.com'),

(8,'srinu',’fullstack java developer’,23,'srinu@gmail.com'),

(9,'satish',’fullstack python developer’,25,'satish@gmail.com'),

(10,'sekhar',’fullstack mern developer,30,'sekhar@gmail.com');