***Mariadb***

**what is data?**

->data means information. it could be names, numbers, dates, or any other kind of information

what is database?

->a database is like a place where we store and organization's information

**Types:**

**1. SQL** -structured query language/ Relational

->SQL requires predefined schema[structured]

->SQL databases are well-suited for applications with structured data

and complex relationships, such as financial systems, e-commerce

platforms, and systems that requires data consistency.

->Examples: MySQL, PostgreSQL, Oracle Database, Microsoft SQL

Server

**2.NoSQL**- non-relational

->NoSQL requires dynamic schema[unstructured]

->NoSQL databases are suitable for applications with rapidly changing

or unstructured data, such as social media platforms, content

management systems, real-time analytics

->Examples: MongoDB, DynamoDB, Cassandra, Redis.

**Installation steps:**

yum install mariadb-server -y

systemctl start mariadb

systemctl enable mariadb

systemctl status mariadb

firewall-cmd --add-service=mysql --permanent

firewall-cmd --reload

**#mysql\_secure\_installation**

set root password for mariadb

->just press enter

->set root passwd ->y

->-y

->-y

**#mysql -u root -p -----login into server**

enter password:

**Basic database commands:**

>show databases;

>create database **database\_name**;

>use **database\_name**;

>create table **student\_info** (Name varchar(20), RollNo int, City Varchar(20));

>show tables;

>describe **student\_info;**

>insert info student\_info values ('user1',22,'Nagpur');

>select \* from student\_info; ---view data from table

>select name from student\_info where city='Nagpur'