Day-3

MySQL

Installation :

https://dev.mysql.com/downloads/mysql/8.0.html

MySQL Pdf :

mysql-cheat-sheet-a4.pdf

MySQL

→ MySQL is a widely used relational database management system (RDBMS).

→ MySQL is free and open-source.

→ MySQL is ideal for both small and large applications.

Introduction to MySQL

→ MySQL is a very popular open-source relational database management system (RDBMS).

What is MySQL?

- MySQL is a relational database management system
- MySQL is open-source
- MySQL is free
- MySQL is ideal for both small and large applications
- MySQL is very fast, reliable, scalable, and easy to use
- MySQL is cross-platform
- MySQL is compliant with the ANSI SQL standard
- MySQL was first released in 1995
- MySQL is developed, distributed, and supported by Oracle Corporation
- MySQL is named after co-founder Ulf Michael "Monty" Widenius's daughter: My

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Who Uses MySQL?

- Huge websites like Facebook, Twitter, Airbnb, Booking.com, Uber, GitHub, YouTube, etc.
- Content Management Systems like WordPress, Drupal, Joomla!, Contao, etc.
- A very large number of web developers around the world

Show Data On Your Web Site

To build a web site that shows data from a database, you will need:

- An RDBMS database program (like MySQL)

- A server-side scripting language, like PHP
- To use SQL to get the data you want
- To use HTML / CSS to style the page

What is RDBMS?

- RDBMS stands for Relational Database Management System.
- RDBMS is a program used to maintain a relational database.
- RDBMS is the basis for all modern database systems such as MySQL, Microsoft SQL Server, Oracle, and Microsoft Access.
- RDBMS uses SQL queries to access the data in the database.

What is a Database Table?

- A table is a collection of related data entries, and it consists of columns and rows.
- A column holds specific information about every record in the table.
- A record (or row) is each individual entry that exists in a table.
- Look at a selection from the Northwind "Customers" table:

Customer ID	Customer Name	Address	City	Postal Code	Country
1	Sanjai	Marina	Chennai	123456	India
2	Kannan	Karapakkam	Chennai	789090	India
3	Raja	Anna nagar	Chennai	123456	India
4	Abinesh	West Mamabalam	Chennai	890890	India
5	Hari	Port House Street	Chennai	321321	India

The columns in the "Customers" table above are: CustomerID, CustomerName, ContactName, Address, City, PostalCode and Country. The table has 5 records (rows).

What is a Relational Database?

→ A relational database defines database relationships in the form of tables. The tables are related to each other - based on data common to each.

→ Look at the following three tables "Customers", "Orders", and "Shippers" from the Northwind database:

Customers Table

Customer ID	Customer Name	Contact Name	Adress	City	Postal Code	Country
1	Sanjai	Kannan	Chennai	Chennai	123123	India
2	Kannan	Sanjai	Chennai	Chennai	098890	India
3	Raja	Rajesh	Chennai	Chennai	678876	India
4	Abinesh	Abi	Chennai	Chennai	345543	India
5	Hari	Hariharan	Chennai	Chennai	890987	India

The relationship between the "Customers" table and the "Orders" table is the CustomerID column:

Orders Table

Order ID	Customer Name	Contact Name	Adress	City
109123	Sanjai	Kannan	Chennai	Chennai
210912	Kannan	Sanjai	Chennai	Chennai
310912	Raja	Rajesh	Chennai	Chennai
410912	Abinesh	Abi	Chennai	Chennai
510912	Hari	Hariharan	Chennai	Chennai

The relationship between the "Orders" table and the "Shippers" table is the ShipperID column:

Shippers Table

Shipped ID	Shipper Name	Phone
1	Speedy Express	(503) 555-9831
2	United Package	(503) 555-9831
3	Federal Shipping	(503) 555-9831