

LAB 1

➔ Software Installation

1) Mysql Database

Url: <https://www.mysql.com/downloads/>



2) visual paradigm (Modeling Software)

Url: <https://www.visual-paradigm.com/editions/community/>



What is a Database?

-A structured set of data held in a computer, especially one that is accessible in various ways.

What is database management system?

-software that handles the storage, retrieval, and updating of data in a computer system.

What is MySQL?

-MySQL is a fast, easy to use relational database. It is currently the most popular open-source database.

SQL?

-stands for Structured Query Language. **SQL** is used to communicate with a database.

MySQL Data Types

A Data Type specifies a particular type of data, like integer, floating points, Boolean etc. It also identifies the possible values for that type, the operations that can be performed on that type and the way the values of that type are stored.

It uses many different data types broken into mainly three categories: numeric, date and time, and string types.

➔ LAB TASK

Exercise 1:

- Create Database
 - Syntax:
 - Create database database_name

Example:

Create database Softwarica

- Use Database
 - Syntax:
 - Use databse_name
- Example:
- Use Softwarica

Create Table

The MySQL CREATE TABLE command is used to create a new table into the database. A table creation command requires three things:

- Name of the table
- Names of fields
- Definitions for each field

Syntax:

CREATE TABLE table_name (column_name Data_type...);

Following Sql script will create the Student table in Database Softwarica

```
Create table tbl_student(  
    id int,  
    name varchar(50),  
    address varchar(50),  
    dob date  
);
```

To view Created Table(Select Query)

➔ **Select * from Table_name ;**

- Example:

- **Select * from tbl_student ;**

Insert Query

To insert data In Table

Syntax:

INSERT INTO table_name (field1, field2,...fieldN)
VALUES
(value1, value2,...valueN);

Example:

Insert into tbl_student(id,name,address,dob)
Values(1,'Achyut','Timsina','2019-07-26')

Insert into tbl_student(id,name,address,dob)
Values(2,'Bikash','Koteswor','2019-07-24')

***Now, insert 5 data of your Friends**

