

# SQL Syllabus

## Introduction to Databases

- Definitions
- Uses
- Importance

## Installation of MySQL

- Installation

## Types of Commands

- Brief Description of each type of Commands (DML, DDL, DCL, TCL etc), Definitions and examples.

## Data Types

- Description of Datatypes and Examples

## DDL Commands

- Definitions and Syntax (CREATE, DROP, ALTER, TRUNCATE, RENAME )
- Practical demonstrations

## DML Commands

- Definitions and Syntax (INSERT, UPDATE, DELETE)
- Practical demonstrations

## Constraints

- Definitions and Syntax (NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY, CHECK, DEFAULT)
- Practical demonstrations

## Retrieving Data

- The SELECT statement and its features
- Practical demonstrations of (Where Clause, IN, Between, Is Null, Not Null, Sorting etc. )

## Aggregating Data

- Definitions of MIN, MAX, AVG, COUNT etc.
- Practical Demonstration of MIN, MAX, AVG, COUNT etc.

## Grouping Data

- Definitions of Order by, Group by and Having Clause
- Practical Demonstration of Order by, Group by and Having Clause

## **DCL Commands**

- Definitions
- Practical Demonstrations

## **TCL Commands**

- Definitions
- Practical Demonstrations

## **Functions**

- Definitions
- Practical Demonstrations

## **Joins**

- Definitions
- Practical Demonstrations

## **Views**

- Definitions
- Practical Demonstrations