

DataBase Syllabus

1. Introduction

- Definition and importance of databases.
- Overview of SQL (Structured Query Language)

2. Database Fundamentals

- Explanation of databases as structured data repositories
- Types and applications of databases (relational, NoSQL, etc.)
- Role of databases in various industries

3. SQL Essentials

- Introduction to SQL as the language for managing databases
- Categories of SQL statements (DDL, DML, DQL)
- Significance of SQL in data manipulation and retrieval

4. Installation of MySQL

- Steps to install MySQL
- Configuring database server settings
- Command-line and graphical tools for MySQL

5. Exploring SQL Statements

- Data Definition Language (DDL)
- CREATE statement
- ALTER statement
- TRUNCATE statement
- DROP statement
- RENAME statement
- Data Manipulation Language (DML)

- INSERT statement
- UPDATE statement
- DELETE statement
- Data Query Language (DQL)
- SELECT statement

6. SQL Query Basics

- Data filtering
- ORDER BY
- Logical operators
- Handling NULL values.
- LIKE operator & wildcard characters
- Aggregate functions
- IN and BETWEEN operators
- String, Date & Time functions

Project

- Core Project
- Live Project

Certificate