

NIELIT Virtual Academy

INTERNSHIP PROSPECTUS

Name of the Internship: *Online Internship in MySQL*

Internship Code: *IN33*

Mode of Conduction: *Online*

Starting Date: 20th May 2026

Last date of registration: 17th May 2026

Duration: 6 Weeks

Objective of the Course

MySQL is a relational database management system which uses Structured Query Language (SQL) to manage data. SQL is a powerful programming language that is used for manipulating data in databases. A working knowledge of databases and SQL is a must for anyone who wants to start a career in Data Engineering, Data Warehousing, Data Analytics, Data Science or Business Intelligence, etc. This course is to help you learn the foundation and also understand SQL at an advance level. In the process, you become familiar with many relational database (RDBMS) concepts which will increase the career opportunity for candidates and bridge the gap of Skilled Human requirements for the Industry.

Outcome of the Course:

Provide the participants with in-depth knowledge and skills required in Database Design.

Course Fee: **Rs: 1000/- (inclusive of GST)**

Eligibility: Pursuing an Undergraduate level course or above

Methodology:

- ✓ Teaching Mode: Self-Pace
- ✓ Access from anywhere anytime
- ✓ Content Access through e-learning portal
- ✓ Doubt Removal Session
- ✓ Covers both Theory & Practical
- ✓ Certification: On completion of the Mini Project

Registration Link: <http://nva.nielit.gov.in>

Contact Details:

- Course coordinator Name: Mr Mayank Singh Gautam
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Course Structure:

Module No	Module Title
1	Introduction
2	Clauses and MySQL Functions
3	Joins, Views, Subquery and Trigger
4	Mini Project

Syllabus:

Detailed Syllabus

Module 1. Introduction:

- ❖ What is a Database; Types of Databases; DBMS Vs, RDMS; Why SQL
- ❖ MySQL Installation, SQL Data Definition Language (DDL)
- ❖ CREATE, ALTER, DROP, RENAME, TRUNCATE, COMMENT
- ❖ SQL Data Manipulation Language (DML), SELECT
- ❖ INSERT, UPDATE, DELETE, MERGE, TCL
- ❖ COMMIT, ROLLBACK, SAVEPOINT
- ❖ SQL Data Control Language (DCL)- GRANT, REVOKE

Module 2. Clauses and MySQL Functions:

- ❖ Where Clause and conditions
- ❖ Constraints
- ❖ NOT_NULL, UNIQUE, CHECK, DEFAULT
- ❖ Keys
- ❖ Primary Key, Foreign key, Composite key, Unique Key
- ❖ Distinct, Order By, Group By and Having
- ❖ Group By Vs Order By, WHERE Vs HAVING, IN Vs
- ❖ EXISTS
- ❖ Functions in SQL
- ❖ String, Numeric, Date, SQL Advanced functions

Module 3. Joins, Views, Subquery and Trigger

- ❖ SQL Joins- Inner, Left, Right, Cross, Self Join
- ❖ SQL Views -Create, Delete, Update View
- ❖ ACID Properties- Atomicity, Consistency, Isolation, Durability
- ❖ SQL Common Table Expressions (CTE)- WITH Clause
- ❖ SQL Subquery
- ❖ SQL Triggers
- ❖ SQL Window Functions- Aggregate, Value, Ranking

Module 4 : Project