TechCareers

MySQL

Introduction to MySQL

- Introduction to Databases
- Introduction to RDBMS
- Explain RDBMS through normalization
- Different types of RDBMS
- Software Installation (MySQL Workbench)

SQL Commands and Data Types

- Types of SQL Commands (DDL, DML, DQL, DCL, TCL) and their applications
- Data Types in SQL (Numeric, Char, Datetime)

DQL & Operators

SELECT: LIMIT, DISTINCT, WHERE, AND, OR, IN, NOT IN, BETWEEN, EXIST, ISNULL, IS NOT NULL,
Wild Cards, ORDER BY

Case When Then and Handling NULL Values

 Usage of Case When Then to solve logical problems and handling NULL Values (IFNULL, COALESCE)

Group Operations & Aggregate Functions

- Group By, Having clause
- COUNT, SUM, AVG, MIN, MAX, COUNT
- String functions
- Date & Time function

Constraints

- INOT NULL
- UNIQUE
- CHECK

- DEFAULT
- Primary key
- Foreign Key (Both at column level and table level)

Joins

- Inner
- Left
- Right

- Cross
- Self joins
- Full outer join





- Drop
- Alter
- Rename

- Truncate
- Modify
- Comment

DML & TCL Commands

- DML: Insert, Update, and Delete
- TCL: Commit, Rollback, Savepoint, and Data Partitioning

Indexes and Views

Indexes (Different Type of Indexes) and Views in SQL

Stored Procedure

- Procedure with IN Parameter
- Procedure with OUT parameter
- Procedure with INOUT parameter

Function, Constructs

- User Defined Function
- Window Functions Rank, Dense Rank, Lead, Lag, Row_number

Union, Intersect, Sub-query

- Union
- Union all
- Intersect

- Sub Queries
- Multiple Query

Exception Handling

- Handling exceptions in a query
- CONTINUE Handler
- EXIT handler

Exception Handling

Triggers

