



SwapSkill
Skill Content Summary

Category: Database Management

Skill: MySQL

Topics Breakdown

- Introduction to MySQL
 - ! What is MySQL
 - ! Features
 - ! Use Cases

- Database Basics
 - ! DBMS Concepts
 - ! RDBMS
 - ! ACID Properties

- SQL Fundamentals
 - ! DDL
 - ! DML
 - ! DQL
 - ! TCL

- Data Types
 - ! Numeric Types
 - ! String Types
 - ! Date & Time Types

- Constraints
 - ! Primary Key
 - ! Foreign Key
 - ! Unique
 - ! Check
 - ! Not Null

- Table Operations
 - ! Create Table
 - ! Alter Table
 - ! Drop Table

- Querying Data
 - ! SELECT
 - ! WHERE
 - ! ORDER BY
 - ! DISTINCT

- Joins
 - ! INNER JOIN
 - ! LEFT JOIN
 - ! RIGHT JOIN
 - ! FULL JOIN

- Grouping & Aggregation

- ! GROUP BY
 - ! HAVING
 - ! COUNT
 - ! SUM
 - ! AVG

- Functions

- ! String Functions
 - ! Date Functions
 - ! Numeric Functions

- Subqueries

- ! Single Row
 - ! Multiple Row
 - ! Nested Subqueries

- Indexes

- ! Types of Indexes
 - ! Creating Index
 - ! Performance Impact

- Views

- ! Create View
 - ! Update View
 - ! Benefits of Views

- Stored Procedures

- ! CREATE PROCEDURE
 - ! Parameters
 - ! Execution

- Triggers

- ! BEFORE/AFTER Insert
 - ! Update
 - ! Delete

- Transactions

- ! COMMIT
 - ! ROLLBACK
 - ! SAVEPOINT

- Normalization

- ! 1NF
 - ! 2NF
 - ! 3NF
 - ! BCNF

- ER Modeling

- ! Entities
 - ! Attributes
 - ! Relationships

- Backup & Restore

- ! mysqldump
 - ! Import Data

- Performance Optimization

- ! Query Optimization
 - ! Explain Plan

