



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
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