



SQL Foundational



SQL Basics and Database Fundamentals

Topics Covered

- Database Definition
- SQL Overview
- SQL Command Types

Keys and Constraints

Topics Covered

- Usage of Keys
- Relationships
- Constraints

Joins and Relationships

Topics Covered

- INNER
- LEFT/RIGHT/FULL
- SELF/CROSS

Data Aggregation & Filters

Topics Covered

- GROUP BY
- HAVING vs WHERE
- ORDER BY & LIMIT

Indexing & Optimization

Topics Covered

- Indexing
- Clustered vs Non Clustered
- Optimization Techniques

Transactions and ACID Properties

Topics Covered

- Transaction Control
- ACID Compliance
- Error Handling



Advanced SQL Techniques

Topics Covered

- Subqueries & CTEs
- Window Functions
- Views, Procedures & Triggers

PL/SQL (Procedural Language SQL)

Topics Covered

- Introduction
- Blocks & Control Structures
- Error Handling & Cursors



Hands On

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- Complete a real-world use case
- Showcase project results