

## SQL

### 1 Introduction To SQL

- What is SQL
- Why SQL
- What are relational databases?
- SQL command group
- MS SQL Server installation
- Exercises

### 2 SQL Data Types & Operators

- SQL Data Types
- Filtering Data
- Arithmetic Operators
- Comparison operators
- Logical Operators
- Exercises

### 3 Useful Operations in SQL

- Distinct Operation
- Top N Operation
- Sorting results
- Combine results using Union
- Null comparison
- Alias
- Exercises

### 4 Aggregating Data in SQL

- Aggregate functions
- Group By clause
- Having clause
- Over clause
- Exercises

### 5 Writing Sub-Queries in SQL

- What are sub-queries?
- Sub-query rules
- Writing sub-queries
- Exercises

## 6 Common function in SQL

- Ranking functions
- Date & time functions
- Logical functions
- String functions
- Conversion functions
- Mathematical functions
- Exercises

## 7 Analytic Functions in SQL

- What are analytic functions?
- Various analytic functions
- SQL syntax for analytic functions
- Exercises

## 8 Writing DML Statements

- What are DML Statements?
- Insert statement
- Update statement
- Delete statement
- Exercises

## 9 Writing DDL Statements

- What are DDL Statements?
- Create statement
- Alter statement
- Drop statement
- Exercises

## 10 Using Constraints in SQL

- What are constraints?
- Not Null Constraint
- Unique constraint
- Primary key constraint
- Foreign key constraint
- Check constraint
- Default Constraint
- Exercises

## 11 SQL Joins

- What are joins?
- Cartesian Join
- Inner Join

- Left Join
- Right Join
- Full Join
- Self Join
- Exercises

#### 12 Views in SQL

- What are views?
- Create View
- Drop view
- Update view
- Exercises

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