

# SQL Training – Content & Schedule



DATAMINERS POINT  
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# SQL - Day 1

- **SQL Overview**
- **What is SQL?**
- **Why SQL?**
- **History:**
- **SQL Process:**
- **SQL Commands:**
- **DDL - Data Definition Language:**
- **DML - Data Manipulation Language:**
- **DCL - Data Control Language:**
- **DQL - Data Query Language:**

# SQL - Day 2 & 3



## ➤ SQL RDBMS Concepts

➤ What is field?

➤ What is record, or row?

➤ What is column?

➤ What is NULL value?

## ➤ SQL Constraints:

➤ NOT NULL Constraint:

➤ DEFAULT Constraint:

➤ Example:

➤ Drop Default Constraint:

➤ UNIQUE Constraint:

➤ Example:

➤ DROP a UNIQUE Constraint:

➤ PRIMARY Key:

➤ Create Primary Key:

➤ Delete Primary Key:

➤ FOREIGN Key:

➤ Example:

➤ DROP a FOREIGN KEY Constraint:

➤ CHECK Constraint:

➤ Example:

➤ DROP a CHECK Constraint:

➤ INDEX:

➤ Example:

➤ DROP a INDEX Constraint:

➤ Data Integrity:

➤ Database Normalization



# SQL ASSESSMENT - 1



# SQL - Day 4 & 5 & 6

➤ **SQL Syntax**

➤ **SQL SELECT Statement:**

➤ **SQL DISTINCT Clause:**

➤ **SQL WHERE Clause:**

➤ **SQL AND/OR Clause:**

➤ **SQL IN Clause:**

➤ **SQL BETWEEN Clause:**

➤ **SQL Like Clause:**

➤ **SQL ORDER BY Clause:**

➤ **SQL GROUP BY Clause:**

➤ **SQL COUNT Clause:**

➤ **SQL HAVING Clause:**

➤ **SQL CREATE TABLE Statement:**

➤ **SQL DROP TABLE Statement:**

➤ **SQL CREATE INDEX Statement:**

➤ **SQL DROP INDEX Statement:**

➤ **SQL DESC Statement:**

➤ **SQL TRUNCATE TABLE Statement:**

➤ **SQL ALTER TABLE Statement:**

➤ **SQL ALTER TABLE Statement (Rename):**

➤ **SQL INSERT INTO Statement:**

➤ **SQL UPDATE Statement:**

➤ **SQL DELETE Statement:**

➤ **SQL COMMIT Statement:**

➤ **SQL ROLLBACK Statement:**

# SQL ASSESSMENT - 2



# SQL - Day 7 & 8

## ➤ SQL Data Types

### ➤ Exact Numeric Data Types:

### ➤ Approximate Numeric Data Types:

### ➤ Date and Time Data Types:

### ➤ Character Strings Data Types:

### ➤ Unicode Character Strings Data Types:

### ➤ Binary Data Types:

### ➤ Misc Data Types:

## ➤ SQL Operators

### ➤ What is an Operator in SQL?

### ➤ SQL Arithmetic Operators:

### ➤ SQL Comparison Operators:

### ➤ SQL Logical Operators:

## ➤ SQL Expressions

### ➤ Syntax:

### ➤ SQL - Boolean Expressions:

### ➤ SQL - Numeric Expression:

### ➤ SQL - Date Expressions:

# SQL ASSESSMENT - 3





# SQL - Day 9 & 10 & 11

## ➤ SQL Joins

### ➤ SQL Join Types:

#### ➤ INNER JOIN

#### ➤ Syntax:

#### ➤ Example:

#### ➤ LEFT JOIN

#### ➤ Syntax:

#### ➤ Example:

#### ➤ RIGHT JOIN

#### ➤ Syntax:

#### ➤ Example:

#### ➤ FULL JOIN

#### ➤ Syntax:

#### ➤ Example:

#### ➤ SELF JOIN

#### ➤ Syntax:

#### ➤ Example:

#### ➤ CARTESIAN JOIN

#### ➤ Syntax:

#### ➤ Example:

# SQL ASSESSMENT - 4



# SQL - Day 12 & 13 & 14

➤ SQL Unions Clause

➤ Syntax:

➤ Example:

➤ The UNION ALL Clause:

➤ Syntax:

➤ Example:

➤ Example:

➤ SQL Date Functions

➤ Practice

➤ SQL Temporary Tables

➤ Practice

➤ SQL String Function

➤ Practice

➤ Date Convert Functions

➤ Practice

# SQL ASSESSMENT - 5



# SQL - Day 15



➤ Analytical Functions

➤ Practice

➤ Pivot/Unpivot

➤ Practice

➤ CTE/Recursive

➤ Conversation/Cast

➤ Table Variable

➤ Practice

➤ Dynamic SQL (Some parts)

➤ Practice

# FINAL ASSESSMENT





SSRS...

SSIS...



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