

## SQL Server Course Contents

### ✓ SQL Overview

### ✓ RDBMS Concepts

### ✓ The Foundation Statements of T-SQL

### ✓ Started with SELECT Statement

### ✓ Adding Data with the INSERT Statement

### ✓ SQL Commands

- DDL
- DML
- DCL
- DQL

### ✓ SQL Data Types

### ✓ Basic Commands

- Create Statement
- Create Database
- Create Table
- Alter Statement
- Alter Database
- Alter Table
- Drop Statement
- Delete Statement
- Update Statement

### ✓ SQL Operators

- Arithmetic Operators
- Comparison Operators
- Logical Operators

### ✓ NORMALIZATION

- 1NF
- 2NF
- 3NF

# Lone Star Academy

Ph: +91 97117 09644

Website: [www.lonestaracademy.in](http://www.lonestaracademy.in)

Email: [info@lonestaracademy.in](mailto:info@lonestaracademy.in)



## ✓ JOINS

- INNER Join
- LEFT Join
- RIGHT Join
- FULL Join
- SELF Join
- CARTESIAN Join

## ✓ SQL Clauses

- WHERE Clause
- ORDER BY Clause
- GROUP BY Clause
- HAVING Clause
- TOP Clause
- LIKE Clause
- UNION Clause
- UNION ALL Clause

## ✓ Adding More to Our Queries

- What Is a Sub-Query?
- Building a Nested Sub-Query
- Correlated Sub-Queries
- How Correlated Sub-Queries Work Correlated Sub-Queries in the WHERE Clause

## ✓ The EXISTS Operator

## ✓ Using EXISTS in Other Ways

## ✓ System Defined Functions:

- AVERAGE
- COUNT
- MAX
- MIN
- SUM
- SQRT
- RAND
- CONCAT
- GROUP BY
- HAVING
- TRIM
- LENGTH

# Lone Star Academy

Ph: +91 97117 09644

Website: [www.lonestaracademy.in](http://www.lonestaracademy.in)

Email: [info@lonestaracademy.in](mailto:info@lonestaracademy.in)



- UPPER
- LOWER
- REPLACE
- REVERSE
- SUBSTRING
- STUFF
- DATEADD(day,10,@date)
- DATEDIFF (day,exp1,exp2)
- DATEPART(day,exp)
- GETDATE
- CONVERT
- FORMAT
- ISNULL
- Top

## ✓ UDF (USER DEFINED FUNCTIONS)

- Scalar Functions
- Table-valued Functions

## ✓ UNDERSTANDING INDEXES

- How Data Is Accessed in SQL Server
- Creating, Altering, and Dropping Indexes
- The CREATE INDEX Statement

## ✓ VIEWS

- Simple Views
- Views as Filters
- More Complex Views
- Dropping Views

## ✓ STORED PROCEDURES

- Basic Syntax
- Changing Stored Procedures with ALTER
- Dropping Stored Procedures
- Handling Errors

## ✓ Transactions

- Properties of Transactions
- Commit
- Rollback

# Lone Star Academy

Ph: +91 97117 09644

Website: [www.lonestaracademy.in](http://www.lonestaracademy.in)

Email: [info@lonestaracademy.in](mailto:info@lonestaracademy.in)



- Save point

## ✓ USING Sequences

- Auto Increment (Identity Field)

## ✓ Triggers

- Auto Generated Tables (INSERTED / DELETED)

\*\*\*\*

