



Do Space Code Community Lesson Plan: Cycle 3: SQL

SQL is a standard language for storing, manipulating and retrieving data in databases.

Lesson 1: Welcome to SQL

- [The World of SQL](#)
- [How does SQL Work](#)
- [Most Important SQL Queries](#)
- [Watch: Introduction to SQL](#)
- [Watch: SQL Fundamentals](#)

Lesson 2: SELECT Queries 101

- [Select Statements](#)
- Watch: [SQL SELECT Tutorial](#)
- Practice: [SELECT Statement](#)

Lesson 3: Queries with Constraints (Pt. 1)

- [Queries with Constraints](#) (1)
- Watch: [Intro to Constraints](#)
- Practice: [Constraints](#)

Lesson 4: Queries with Constraints (Pt. 2)

- [Queries with Constraints](#) (2)
- Watch: [SQL Foreign Key Constraints](#)
- Practice: [Constraints](#)

Lesson 5: Filtering and Sorting

- [Filter & Sort Query Results](#)
- [Sorting & Filtering Data in a Table](#)
- Watch: [Where to Filter Results](#)



Lesson 6: Lesson Review

- [Simple SELECT Queries](#)
- Watch: [5 Basic SELECT Statements](#)
- Watch: [Tutorial: The SELECT Query](#)
- Practice: [SELECT Statement](#)

Lesson 7: JOINS

- [Multi-Table Queries with JOINS](#)
- [INNER JOIN](#)
- Watch: [Multiple JOINS](#)
- Watch: [How to Join Tables](#)

Lesson 8: OUTER JOINS

- [Introduction to OUTER JOINS](#)
- Watch: [OUTER JOIN Explained](#)
- Watch: [INNER vs OUTER JOINS](#)
- Practice: [FULL OUTER JOIN](#)

Lesson 9: NULLS

- [A Short Note on NULLS](#)
- [Handling NULLS in SQL Server](#)
- Watch: [NULL or Empty?](#)
- Watch: [Joining NULL Values](#)
- Practice: [NULL Values](#)

Lesson 10: Expressions

- [Queries with Expressions](#)
- [Expressions, Conditions, and Queries](#)
- Watch: [SQL Queries with Expression Fields](#)
- Watch: [SQL WITH Statements](#)



Lesson 11: Aggregates (Pt. 1)

- [Queries with aggregates](#)
- [SQL Aggregate Functions](#)
- Watch: [SQL Aggregate Functions](#)
- Watch: [Explaining Aggregate Functions](#)
- Practice: [SQL Aggregation](#)

Lesson 12: Aggregates (Pt. 2)

- [Queries with aggregates \(Pt. 2\)](#)
- [More SQL Server Aggregate Functions](#)
- Watch: [Explaining Aggregate Functions](#)
- Watch: [Advanced Aggregate Functions](#)

Lesson 13: Order of Execution

- [Order of execution of a Query](#)
- [Query Order](#)
- [Order of Operations](#)
- Watch: [What is the Order Of Execution](#)

Lesson 14: Rows

- [Inserting rows](#)
- [Inserting into a Table](#)
- [Inserting One or More Rows](#)
- Watch: [Add Data Rows in a Table](#)

Lesson 15: Rows Continued

- [Updating rows](#)
- [SQL UPDATE Statement](#)
- Watch: [Learn How to Update Data Rows](#)
- Watch: [SQL UPDATE Statement](#)



Lesson 16: More Rows

- [Deleting rows](#)
- [SQL Delete statement](#)
- [Delete From Statement](#)
- Watch: [The SQL DELETE Statement](#)
- Watch: [SQL DELETE Query](#)

Lesson 17: Tables

- [Creating tables](#)
- [Create Table Statement](#)
- [Delete From Statement](#)
- Watch: [SQL Create Table](#)
- Practice: [The SQL CREATE TABLE Statement](#)

Lesson 18: Tables Continued

- [Altering tables](#)
- [ALTER TABLE Statement](#)
- Watch: [How to use Alter Table](#)
- Watch: [The ALTER TABLE Command](#)
- Practice: [ALTER TABLE Statement](#)

Lesson 19: More Tables

- [Dropping tables](#)
- [Drop Tables Syntax](#)
- Watch: [How to Create and Drop Table in SQL](#)
- Watch: [Drop Table](#)

Other Helpful Resources

- Watch: [Welcome to SQL](#)
- [Top SQL Articles](#)
- [Getting Started with SQL](#)