Resources

Installation of local SQL Server:

Install SQL Server in a container for macOS and Linux and then restore databases:

https://docs.microsoft.com/en-us/sql/linux/tutorial-restore-backup-in-sql-server-container?view=sql-server-ver15

Windows Users: See new document in this folder "Install a SQL Server Instance on Windows"

The AdventureWorks database can be found at https://github.com/Microsoft/sql-server-samples/releases/tag/adventureworks

Look for AdventureWorks2017.bak or AdventureWorks2019.bak

Articles:

Indexes: https://www.red-gate.com/simple-talk/sql/learn-sql-server/sql-server-index-basics/

Aggregate queries: https://www.sqlservercentral.com/articles/aggregate-queries

Data types: https://docs.microsoft.com/en-us/sql/t-sql/data-types/data-types-transact-sql?view=sql-server-ver15

Database functions: https://docs.microsoft.com/en-us/sql/t-sql/functions/functions?view=sql-server-ver15

Courses

Aunt Kathi's problem sets: https://auntkathisql.com/resources-for-codergirl/t-sql-problem-sets/

Kendra Little online courses recently made free: https://littlekendra.com/courses-overview/

Kendra's Redgate Beginning T-SQL course: https://www.red-gate.com/hub/university/courses/t-sql/tsql-for-beginners

Kathi Kellenberger's CoderGirl recordings:

Lesson 2.1: How to Use SQL Server Management Studio	https://youtu.be/jJQzrBx8rJw
Lesson 2.2: Simple Select	https://youtu.be/pcTV_qMEZ9o
Lesson 2.3: Square Brackets	https://youtu.be/Mzgke9af3vI
Lesson 2.4: Type Your Select	https://youtu.be/lv1mlufbApg
Lesson 2.5: Foreign Keys	https://youtu.be/YSnsQxSGixE
Lesson 2.6: Normalization and Keys	https://youtu.be/4jNoME4bCl4
Lesson 2.7: Database Normalization Steps	https://youtu.be/wNUByKNYwEQ
Lesson 3.1: Aliases	https://youtu.be/yAXxey6-T0U
Lesson 3.2: Sorting	https://youtu.be/7fWnseYjxGI
Lesson 3.3: Filtering	https://youtu.be/S2FNmOeGbN8
Lesson 3.4: Working with Nothing / NULL	https://youtu.be/F44zRs8NL-I
Lesson 3.5: Where	https://youtu.be/FEdNSFh4IYA
Lesson 3.6: Where Clause	https://youtu.be/NP09gZ634x8
Lesson 8.1: Inner Join	https://youtu.be/QN9Gs7lgVQE
Lesson 8.2: Database Relationships	https://youtu.be/MOEueT3uYnY
Lesson 8.3: Inner Join and Left Join	https://youtu.be/g-jNd3MOoYE
Lesson 8.4: Inner Join	https://youtu.be/cUPUYZzLOJg
Lesson 8.5: Left Join	https://youtu.be/kK5wdQq3kSk
Lesson 10.1: Subquery IN	https://youtu.be/Tz5teG2aGPs
Lesson 10.2: Union	https://youtu.be/Ba1JaCXMj1s
Lesson 11.1: Case	https://youtu.be/xc7skVQQ9Mc
Lesson 11.2: Expressions and Functions	https://youtu.be/0gmjSCVep3A

Lesson 12.1: Aggregate Functions and Group By Clause	https://youtu.be/sPViqaEx7KY
Lesson 12.1: Filters with the HAVING Clause	https://youtu.be/ove3FeIAOfU
Lesson 12.3: Multiple Tables NULLs	https://youtu.be/ER_wWc0G7C4
Lesson 12.4: Aggregate Query Summary	https://youtu.be/g_JTiTIE8Zg
Lesson 15.1: Declaring Variables	https://youtu.be/N4oGEgHW7m0
Lesson 15.2: Data Types - Numbers	https://youtu.be/CcYObKssPLo
Lesson 15.3: Data Types - character data	https://youtu.be/zPQMNkiIcDU
Lesson 15.4: Data Types - DateTime	https://youtu.be/xSiH3sz8r4I
Lesson 16.1: Objects	https://youtu.be/s1Vstkse_i0
Lesson 16.2: Creating Tables	https://youtu.be/z93eyS0aMeU
Lesson 16.3: Views	https://youtu.be/iGZCxyOCuPQ
Lesson 16.4: User Defined Functions and Types	https://youtu.be/7pu-cfbt6vc
Lesson 16.5: Stored Procedures	https://youtu.be/9pT8x4jToKk
Lesson 16.6: Temp Tables and Temp Variables	https://youtu.be/qSkIFqFpLhU
Lesson 17.1: Inserting Rows	https://youtu.be/2VeHOoLDiig
Lesson 17.2: Updating	https://youtu.be/psjcxeDSuy4
Lesson 17.3: Deleting data	https://youtu.be/-ucAqJikLJI
Lesson 18.1: Conditional Logic	https://youtu.be/G8pqM0D5LBE
Lesson 18.2: Loops	https://youtu.be/h_M3l25j9ZQ
Lesson 18.3: Stored Procs	https://youtu.be/s6XC6CzTPEQ

Books

Beginning T-SQL 3rd Edition (The 4th edition is coming out this fall) https://www.amazon.com/Beginning-T-SQL-Kathi-Kellenberger/dp/1484200470/

Expert T-SQL Window Functions in SQL Server 2019 https://www.amazon.com/Expert-T-SQL-Window-Functions-Server/dp/1484251962/

Learn T-SQL Querying (Written by the people who build SQL Server) https://www.amazon.com/Learn-T-SQL-Querying-developing-efficient-ebook/dp/B07RJHSMWS/

SQL Server 2017 Query Performance Tuning https://www.amazon.com/Server-2017-Query-Performance-Tuning-ebook/dp/B07H49LN75/

Pro T-SQL 2019: Toward Speed, Scalability, and Standardization for SQL Server Developers https://www.amazon.com/Pro-T-SQL-2019-Scalability-Standardization-ebook/dp/B084RLDW2D/

T-SQL Fundamentals https://www.amazon.com/T-SQL-Fundamentals-Itzik-Ben-Gan-ebook/dp/B01J89I7PI