

# End-to-End SQL (Basics to Advanced Level)

Data Analyst / Data Engineer / Business Analyst / Data Scientist

## Curriculum

S. No	Main Concept Title	Sub-Concepts	Appx. No. of Hours
1	Introduction - SQL Basics	DB, DBMS, RDBMS, SQL, Types, .... etc.	0.25
2	Data Types	Char, Varchar, Int, Decimal, text, money, DateTime, .... etc	0.25
3	SQL Commands	DDL, DML, DRL, DCL, TCL	1.5
4	Constraints	Null, Not Null, Unique, Primary Key, Foreign Key, ... etc.	1
5	Clauses	Where, group by, Having, Order by, Partition by, Over () ... etc.	1
6	Operators	Math, String, Logical, Range, and Comparison	1
7	Functions (System Defined)	Math, String, Date-Time, Aggregate/Group Functions.	1.5
8	Set Operators	Union, Union All, Intersection, Except	1
10	Joins	Inner, Left, Right, Full, Self, Cross Joins	2
11	Sub Queries	Multi-column & Multi Rows, Single Column & Multiple Rows... etc.	1
12	Window Functions	Rank, Denserank, Row Number, Lead, Lag, .... etc.	2
13	CTEs	Normal & Recursive CTEs (Common Table Expression)	1
14	Stored Procedures, Functions (User Defined)	Types In detailed Explanation	2
15	Miscellaneous Concepts	Conditional Statements, Views, Temp tables, Indexes, ... etc.	2
16	Problem-Solving	Strata Scratch & Leet Code	4