

SQL Foundations

Build the SQL fluency the rest of the program assumes — or skip it if you already have it.

This sub-course is for learners new to relational databases — or returning after a break. It covers the SELECT, JOIN, aggregation, and relational-thinking fundamentals the program builds on. A placement assessment routes you here, or past it.

WHAT YOU'LL BE ABLE TO DO

- **Read & write queries.** SELECT, WHERE, ORDER BY, and everyday patterns.
- **Combine data across tables.** INNER, LEFT, RIGHT, FULL, and self joins.
- **Summarize data.** GROUP BY, HAVING, and aggregate functions.
- **Think in tables.** Keys, normalization basics, and why they matter.
- **Use the tools.** SSMS, Azure Data Studio, or VS Code with mssql.

TOPICS COVERED

Relational concepts and the SELECT statement · JOIN types and join logic · aggregation (COUNT, SUM, AVG, MIN, MAX, GROUP BY, HAVING) · subqueries and basic CTEs · set operators · filtering (BETWEEN, IN, LIKE, NULLs) · sorting, paging, TOP/OFFSET · connecting to SQL Server and Azure SQL.

PLACEMENT — SKIP IF YOU CAN

Already comfortable with JOINS and GROUP BYs? The AIDD-MS-1 entry diagnostic routes you past this at no cost. SQL Foundations exists for students who need it — not as a gate.

LESSONS 18	TIME ~25–30h	FORMAT Online	OUTCOME AIDD-MS-1
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Not sure if you need it?

Take the free placement assessment at doctaco.academy/aidd

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