



AI AND DIGITAL TRANSFORMATION TRAINING

SQL for Data Analysis

5 day course

Classroom, online or in-house

Course overview

Most organisational data lives in relational databases, and an analyst who cannot query one is dependent on somebody else's queue for every question. This course removes that dependency. Delegates work through relational structure and how tables relate, selecting, filtering and sorting, and the aggregation and grouping that answers most business questions. Joins are taught properly, including the ones that silently duplicate or drop rows. Subqueries, common table expressions and window functions follow, since real analysis needs them. Data quality checks in SQL are covered, because the first result is often wrong for a reason the data will tell you. The course closes on query performance and on working safely against a production database.

What you will learn

- Describe relational structure and how tables relate
- Select, filter, sort and aggregate data confidently
- Use every join type and recognise silent duplication and loss
- Apply subqueries, common table expressions and window functions
- Run data quality checks before trusting a result
- Write queries that perform acceptably on large tables
- Work safely against a production database

Who should attend

- Business and data analysts
- Finance, operations and reporting staff
- Internal auditors extracting data for testing
- Report developers and dashboard builders
- Anyone waiting on others to run their queries

Course outline

- 01 Waiting in somebody else's queue
- 02 Relational structure and table relationships
- 03 Select, filter and sort
- 04 Aggregation and grouping
- 05 Joins and the rows they silently add or lose
- 06 Subqueries and common table expressions
- 07 Window functions
- 08 Data quality checks, performance and production safety

Upcoming dates

Dates	Venue	Format	Fee per delegate
5 to 9 October 2026	Online	Online	R8,500
19 to 23 October 2026	Windhoek, Namibia	Classroom	R19,950
2 to 6 November 2026	Johannesburg, South Africa	Classroom	R19,950

Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia,



Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriScience.co.za, or WhatsApp us on **+27 63 479 1136**.

AfriScience Group | +27 61 536 6531 | info@afriScience.co.za | Pretoria, Gauteng, South Africa