

Advanced SQL

This course is suitable for IT staff, report developers, data analysts and data scientists who either use or expect to use SQL for complex analyses. It requires prior knowledge of SQL, which can be obtained through the SQL Essentials course.

Coffee and lunch will be provided.

Course Outline

A. Introductions

B. Brief review of core aspects of SQL

C. Combining results from different, unrelated tables (Union & Except commands)

D. Transposing Rows to Columns (Case statements with aggregates)

E. Incorporating bulk loads of new/ updated records into an existing table (Merge command)

F. Developing modular SQL code (Derived tables)

G. Picking 'best' record from a list (Sub-queries and Rank function)

H. Cumulative and delta-based time-series analyses (Sum.. preceding and Lag functions)

Timings:

A – 9.30 – 9.45

B – 9.45 – 10.00

C – 10.00 – 10.50

D – 11.00 – 12.00

E – 12.00 – 12.30

Lunch 12.30 – 1.30

F – 1.30 – 2.15

G – 2.15-3.15

H – 3.15 -4.15, followed by review/ finish