

DS212

Data Science powered by SQL

Learning Journey



10% Week 1

Welcome & Orientation



- Familiarise yourself with our LMS - Learning Management System.
- Familiarise yourself with our weekly learning pathway.
- Make sure you have the necessary hardware and software.
- Familiarize yourself with our communication plan.

30% Week 2

SU1 - Introduction to SQL & the SELECT statement

To do:

- Download additional study material.
- Read study material.
- Attend facilitation sessions.
- Complete Quiz2-1.
- Complete Assignment Prac2-1.

Topics:

- Data sources
- Tools for connecting to data sources
- The SELECT statement
- The ORDER BY clause
- Inline calculations



50% Week 3

SU2 - The WHERE Clause & CASE Statements

To do:

- Download additional study material.
- Read study material.
- Attend facilitation sessions.
- Complete Quiz2-2.
- Complete Assignment Prac2-2.

Topics:

- Filtering using the WHERE Clause
- CASE statement
- Combining WHERE & CASE



70% Week 4

SU3 - JOINS & Aggregating Results for Analysis

To do:

- Download additional study material.
- Read study material.
- Attend facilitation sessions.
- Complete Quiz2-3.
- Complete Assignment Prac2-3.

Topics:

- Database relationships and SQL JOINS
- GROUP BY statement
- Filtering with the HAVING statement.



90% Week 5

SU4 - Window Functions & Exploratory Data Analysis

To do:

- Download additional study material.
- Read study material.
- Attend facilitation sessions.
- Complete Quiz2-4.
- Complete Assignment Prac2-4.

Topics:

- Window functions: ROW NUMBER, RANK, DENSE RANK and NTILE
- Aggregate window functions: LAG and LEAD
- Exploratory data analysis with SQL



100%

Final stage



- Complete the Capstone Project.
- Evaluate the course.
- Receive your certificate!**

