

# COURSE OVERVIEW

**Course Name:**  
(DP-080) Querying Data with Microsoft Transact-SQL

**COURSE DURATION: 2 Days**

**Gauteng:**

3rd Floor, 34 Whitely Road  
Melrose Arch  
Johannesburg  
2196

**Gauteng:**

192 on Bram  
192 Bram Fischer Drive  
Ferndale, Randburg  
Johannesburg  
2160

**Cape Town:**

3rd Floor, Thomas Pattullo Building  
19 Jan Smuts St  
Cape Town  
8000

**Durban:**

9 Mountview Close  
Broadlands  
Mount Edgecombe  
Durban  
4302



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## INTRODUCTION

This course will teach the basics of Microsoft's dialect of the standard SQL language: Transact-SQL. Topics include both querying and modifying data in relational databases that are hosted in Microsoft SQL Server-based database systems, including: Microsoft SQL Server, Azure SQL Database and, Azure Synapse Analytics.

## DELIVERY METHOD

Our courses have flexible delivery options:

- In-person classroom training at the Impactful training facilities
  - Johannesburg, Durban, Cape Town
- Virtual instructor-led training
- Nationally: on-site at the client



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## INTENDED AUDIENCE

This course can be valuable for anyone who needs to write basic SQL or Transact-SQL queries. This includes anyone working with data as a data analyst, a data engineer, a data scientist, a database administrator or a database developer. It can also be useful for others peripherally involved with data, or wanting to learn more about working with data such as solution architects, students and technology managers.

## PREREQUISITES

There are no prerequisites for this course.

## COURSE CONTENT

### Introduction to Transact-SQL

This module provides an introduction to relational databases, the SQL language and Transact-SQL. You'll learn what kinds of statements make up the SQL language and look at the SELECT statement in detail.

### Sort and filter results in T-SQL

Learn how to sort and filter query results.

### Combine multiple tables with JOINS in T-SQL

Explore T-SQL queries accessing data from multiple tables with various kinds of JOIN operations.

### Write Subqueries in T-SQL

Learn how to use subqueries to combine multiple SELECT statements and compose nested queries.

### Use built-in functions and GROUP BY in Transact-SQL

Learn how to use functions in Transact-SQL, and how to group aggregated results.

### Modify data with T-SQL

Learn how to use Transact-SQL to insert, update, and delete data in a database.