

## SQL Advanced



**Length:** 2 Days / 4 Half Days

**Overview:** This course is designed to provide advanced knowledge of the SQL query language. Completion of this course will provide experience and knowledge in advanced SQL functions, windows functions, subqueries, ranking, and analytical functions. These skills will allow an analyst to understand data, read and update SQL queries and to create advanced level queries of data.

**Objectives:**

- Use advanced functions to analyze data
- Use advanced SQL functions such as subqueries, Advanced calculations and temporary tables.

### Stored and Temporary Queries

- Stored Procedures
- Subqueries
- Declaring Variables
- Temporary Tables & Functions
- Practice queries

### Advanced SQL Functions

- Windows Functions
- LEAD, LAG, ROLLUP
- EXISTS
- Common Table Expressions
- Running totals and subtotals
- Practice queries

### Data Manipulation

- Pivoting and Unpivoting
- Common Table Expressions
- Practice queries
- Date Functions
- Text and Formatting Functions
- Best Practices in Query formatting
- Practice queries

### Capstone

### Prerequisites

SQL Beginner

### Materials

- Laptop or PC desktop - Dual monitors if possible
- Internet Access
- Virtual environment will be provided with SQL software

**Other SQL Courses Available:** SQL Beginner