**SQL Course**

**Session 1 – SQL Basics**

* SQL and Relational databases
* Datatypes in SQL
* Types of SQL commands
* Structure of a Query and order of execution
* Basic data retrieval with Select queries

**Session 2 – Report Data and Group results**

* Filter results with WHERE
* Sort results with ORDER BY
* Transform results with STRING functions
* Change result headings with alias
* SQL WHERE with DATE functions
* Aggregate results with GROUP BY and Numeric functions
* Unique values with DISTINCT
* Merge rows with GROUP BY and STRING functions
* Rank results with RANK and ROW NUMBER

**Session 3 – Merge Data from multiple tables**

* Speed up queries by limiting report size
* Merge data from multiple tables with JOIN – Inner, Outer, Left and Right
* Combine rows with UNION
* Return data from multiple tables with IN
* Selecting data using SUBQUERIES
* Create SQL tables to store data

**Session 4 – Case Study**

* Case study consisting the application of important SQL concepts