TCS Training

Structured Query Language (SQL) – Intermediate

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Professional Delivery – Printed Workbooks – Step-by-step Reference Guide – Certificates – After Course Support

Aim: Further development of SQL querying skills building on SQL Introduction elements and covering some of the more advanced functions and statements.

Course Objectives	*Explanation / Example*
➜ **Review previous level objectives**	A quick review to ensure knowledge of general select statements and syntax
➜ **Selecting unique data**	How to extract unique information: For example, In which cities do my client reside
➜ **Copying data to new tables**	Create a query that copies the results into a new table to work with data there.
➜ **Grouping information**	Grouping information by a field For example; clients by county
➜ **Extracting data from text strings**	When you would like to extract data from a field e.g. Just give me the first 5 characters
➜ **Extracting data from dates and numbers**	Working with dates to show the information you want e.g. Extract month from a date or tell me how many years there are between two dates
➜ **Understanding advanced functions**	Looking at how to use more advanced functions to extract and manipulate database information e.g. date parts, change case, convert data, top or bottom values
➜ **Work with Nulls**	Concatenation with nulls, testing for null values and entering your own values for them
➜ **Introduce CASE Expressions**	Test if a value is met and in a new column, specify your own, then test for the next condition, and specify that value. This is like a nested IF function or IF, Then, Else.
➜ **SQL Aliases**	SAssigning another name for a table, field or extracted data. e.g. company renamed client
➜ **Working with SQL joins**	Building efficient code to extract data from multiple tables, Right Join, Left Join, Inner join, Outer Join, Unions
➜ **Create, Delete and Change Objects**	Write SQL code to create databases, tables, Indexes, Views, alter tables and delete databases, tables indexes and views.