



Practical 06 – Example 06

Data Manipulation (12 marks)

Important Notes:

1. Bring the following to the practical session:
 - a. The Practical Textbook and/or the lecture notes for the exercise class in which the exercise was explained
2. SQL scripts are what is marked
 - a. Scripts which run and perform what they are supposed to do get full marks
 - b. Scripts which do not run will be marked on their own merit
3. Please refer to Hoteck Chapter 9, as well as the class notes (07SQLCh09.pdf) on ClickUP for examples on generic structures as well as specific code.

CONTEXT:

The practical example is based on the Northwind database. Run the **northwind.sql** script to create and populate the database.

Queries – Northwind

1. Make use of PIVOT to indicate the number of orders per employee based on the EmployeeID. (4)
 - Refer to the employees as ([1],[2],[3],[4],[5],[6],[7],[8],[9])
 - All orders should be displayed per OrderID PIVOTED with employees.
2. Write one query that indicates the number of Orders per Employee based on the CustomerID and EmployeeID. (4)
 - Refer to employees as ([1],[2],[3],[4],[5],[6],[7],[8],[9])
 - The count for each order per customer should be displayed as a PIVOT related to the aforementioned employees.
3. Adapt the query in question 2 - Write one query that indicates the number of Orders per Employee based on the CustomerID and EmployeeID. (4)
 - Refer to employees as [1] as [Nancy], [2] as [Andrew], [3] as [Janet], [4] as [Margaret], [5] as [Steven], [6] as [Michael], [7] as [Robert], [8] as [Laura], [9] as [Anne]
 - The count for each order per customer should be displayed as a PIVOT related to the aforementioned employees.