ASSIGNMENT – 5

**MAJOR ASSIGNMENT - SQL**

Please answer the following questions using Northwind(NW) data base.

**How to attempt questions:**

* Students need to write queries for the questions mentioned in the using NW database
* Read the questions carefully before writing the query in either pgAdmin or Northwind Playground (in the Playground chapter of SQL)

**How to submit the Assignment:**

* Copy the SQL query code and paste it in the answer section in this file
* Once the assignment is done, submit the file over LMS

**Invalid Submissions:**

* Pasting pictures of the code as answer is NOT acceptable
* Uploading output data (CSVs) of the SQL queries is NOT acceptable

**Write your answers(query) in the answer and submit it. To write the answer in the assignment, please follow the below example in yellow**

Example

Questions: Extract all the columns of the orders table

Answer: SELECT \* FROM ORDERS

**Questions:**

1. **Using Orders table, write the query to count distinct customers who purchase anything from Northwind**

***Expected output: Single number denoting the distinct transacting customers***

**Answer:** SELECT

COUNT (DISTINCT customer\_id)

FROM Orders

1. **Get the details of the orders made by VINET, TOMSP, HANAR, VICTE, SUPRD, CHOPS from the orders table.**

**Expected columns in the output – Order\_id, order\_date, customer\_id, Ship\_country and Employee\_id**

**Answer:** SELECT Order\_id, order\_date, customer\_id, Ship\_country, Employee\_id

FROM Orders

WHERE customer\_id IN ('VINET', 'TOMSP', 'HANAR', 'VICTE', 'SUPRD', 'CHOPS')

1. **According to the customers table, list down the customer\_ids which start from "L" and end at "S"**

***Expected columns in the output – Customer\_id***

**Answer:** SELECT customer\_id

FROM customers

WHERE customer\_id LIKE 'L%' and customer\_id LIKE '%S'

1. **According to the customers table, list down the customer\_ids of france which starts from “L”*E***

**E*xpected columns in the output – Customer\_id***

**Answer:** SELECT customer\_id

FROM customers

WHERE customer\_id LIKE 'L%' AND country = 'France'

1. **The company is planning to give a 10% discount on products above 10 dollars price point(including). Get the list of the product\_id which are going to be listed at discounted price**

***Expected columns in the output – Product\_id***

**Answer:** SELECT product\_id

FROM products

WHERE unit\_price >= 10

1. **According to the products table, which category\_ids have more than 500 units\_in\_stock?**

***Expected columns in the output – category\_id, total units\_in\_stock***

**Answer:** SELECT category\_id,

SUM (units\_in\_stock) As Total\_units\_in\_stock

FROM products

GROUP BY category\_id

HAVING SUM (units\_in\_stock) > 500

1. **According to the products table, list the supplier\_ids responsible for supplying exactly 5 products from the list.**

***Expected columns in the output –*  supplier *id, total products supplied***

**Answer:** SELECT supplier\_id,

COUNT (\*)

FROM products

GROUP BY supplier\_id

HAVING COUNT (\*) = 5

1. **Using the orders table, create a table where the count of orders placed would be mentioned against every customer\_id.**

***Expected columns in the output – Customer\_id, count of orders***

**Answer:** SELECT customer\_id,

COUNT (\*)

FROM orders

GROUP BY customer\_id

1. **Using the orders table, create a table where the count of orders placed would be mentioned against every customer\_id but only for customers having at least 10 orders**

***Expected columns in the output – Customer\_id, count of orders***

**Answer:** SELECT customer\_id,

COUNT (\*)

FROM orders

GROUP BY customer\_id

HAVING COUNT (\*) >= 10

1. **The Order\_Details table is unique at the order\_id and product\_id levels. It shows the various products ordered for every order\_id. Northwind is using bigger boxes for orders having 6 or more product\_ids. Can you extract the list of order ids along with the count of products ordered?**

**Expected output: Order\_id, count of products**

**Answer:** SELECT order\_id,

COUNT (\*)

FROM order\_details

GROUP BY order\_id

HAVING COUNT (\*) >= 6