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 ilike 'L%’ and customer\_id ilike ‘%S'**

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

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

**Answer: select customer\_id from customers**

**where country='France' and customer\_id like 'L%'**

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, unit\_price 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) 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(product\_id) total\_products\_supplied**

**from products**

**group by supplier\_id**

**having count(product\_id) = 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(order\_id) count\_of\_orders**

**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(order\_id) count\_of\_orders**

**from orders**

**group by customer\_id**

**having count(order\_id)>= 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(product\_id) count\_of\_products**

**from order\_details**

**group by order\_id**

**for order having more than 6 or more products**

**select order\_id, count(product\_id) count\_of\_products**

**from order\_details**

**group by order\_id**

**having count(product\_id) >= 6**