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 “Database installation and overview”S 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) AS distinct\_customers**

**FROM orders**

**WHERE customer\_id IS NOT NULL;**

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,**

**COUNT(DISTINCT(customer\_id)) ORDER\_DETAILS**

**FROM orders**

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

**GROUP BY order\_id**

**ORDER BY 3 DESC,**

**2 ASC,**

**5 ASC**

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%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) TOTAL\_UNITS\_IN\_STOCK**

**FROM products**

**GROUP BY category\_id**

**HAVING SUM(units\_in\_stock) > 500**

**ORDER BY 1**

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(\*) AS total\_products\_supplied**

**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(customer\_id) Count\_of\_Orders**

**FROM customers**

**GROUP BY customer\_id**

**ORDER BY 1**

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)**

**FROM orders**

**GROUP BY customer\_id**

**HAVING COUNT(order\_id) >= 10**

**ORDER BY customer\_id**

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**

**HAVING COUNT(product\_id) >= 6**

**ORDER BY 1**