Northwind Inc. hired you to create a series of reports for their annual meeting. Northwind has supplied two script files; one containing the necessary SQL for the creation of tables (Northwind tables) and the other containing the SQL for data insertion (Northwind data). Create the tables, insert the provided data in your new NW schema, and create the following reports. Note: The reports need to be easy to understand therefore make sure the column headings are clear, i.e. don’t use the table column names.

Verify the data has been created correctly by verifying the # of records in each table:

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| --- | --- |
| **Table Name** | **# of Records** |
| NW\_Categories | 8 |
| NW\_CustomerCustomerDemo | 0 |
| NW\_CustomerDemographics | 0 |
| NW\_Customers | 91 |
| NW\_Employees | 9 |
| NW\_EmployeeTerritories | 49 |
| NW\_OrderDetails | 2155 |
| NW\_Orders | 830 |
| NW\_Products | 77 |
| NW\_Region | 4 |
| NW\_Shippers | 3 |
| NW\_Suppliers | 29 |
| NW\_Territories | 53 |

1. How many customers live in France? List the companies alphabetically by Company Name.

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| **Query** | **Results** |
| **SELECT c.COMPANYNAME as Company, c.COUNTRY**  **FROM NW\_CUSTOMERS c**  **Where c.COUNTRY = 'France'**  **ORDER BY c.COMPANYNAME;** | **COMPANY COUNTRY**  **---------------------------------------- ---------------**  **Blondesddsl p�re et fils France**  **Bon app' France**  **Du monde entier France**  **Folies gourmandes France**  **France restauration France**  **La corne d'abondance France**  **La maison d'Asie France**  **Paris sp�cialit�s France**  **Sp�cialit�s du monde France**  **Victuailles en stock France**  **Vins et alcools Chevalier France** |

1. How many products need to be restocked? List all products that need to be ordered, sorted by product name, their available inventory and the restock amount. Hint: identify all inventory where the available inventory is less than their reorder level.

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| **Query** | **Results** |
| SELECT PRODUCTNAME AS Product, UNITSINSTOCK AS Current\_Stock, REORDERLEVEL AS Reorder\_Level  from NW\_PRODUCTS  WHERE (UNITSINSTOCK < REORDERLEVEL)  Order by Product; | Aniseed Syrup 13 25  Chang 17 25  Chocolade 15 25  Gnocchi di nonna Alice 21 30  Gorgonzola Telino 0 20  Gravad lax 11 25  Ipoh Coffee 17 25  Longlife Tofu 4 5  Louisiana Hot Spiced Okra 4 20  Mascarpone Fabioli 9 25  Maxilaku 10 15  Nord-Ost Matjeshering 10 15  Outback Lager 15 30  Queso Cabrales 22 30  Rogede sild 5 15  Scottish Longbreads 6 15  Sir Rodney's Scones 3 5  Wimmers gute Semmelkn�del 22 30 |

1. Calculate the total number of Orders for all Territories which begin with a 4

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| **Query** | **Results** |
| --CALCULATE TOTAL NUMBER OF ORDERS  Select SUM(COUNT(ORDERID)) AS ORDERS  FROM NW\_ORDERS  WHERE TERRITORYID Like '4%' GROUP BY TERRITORYID;  --LIST THEM  Select ORDERID AS ORDER\_ID, TERRITORYID AS Territory  FROM NW\_ORDERS  WHERE TERRITORYID Like '4%'; | 82 |

1. Calculate the total number of Products Sold for product ids 40 - 45, sorted by Product ID

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| **Query** | **Results** |
| --ADD THE QUANTITIES  Select PRODUCTID AS PRODUCT\_ID, SUM(QUANTITY) AS QTY\_SOLD  FROM NW\_ORDERDETAILS  WHERE PRODUCTID BETWEEN 40 AND 45 GROUP BY PRODUCTID  ORDER BY PRODUCTID;  --LIST THEM  Select ORDERID AS ORDER\_ID,PRODUCTID AS PRODUCT\_ID, QUANTITY AS QTY  FROM NW\_ORDERDETAILS  WHERE PRODUCTID BETWEEN 40 AND 45  ORDER BY PRODUCTID; | 40 1103  41 981  42 697  43 580  44 601  45 508 |

1. Calculate the total Number of Suppliers and list by Country when the Country name begins with N

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| **Query** | **Results** |
| SELECT SUPPLIERID AS SUPPLIER\_ID ,  COMPANYNAME AS COMPANY\_NAME,  CONTACTNAME AS CONTACT\_NAME,  CONTACTTITLE AS CONTACT\_TITLE,  COUNTRY  FROM NW\_SUPPLIERS  WHERE COUNTRY LIKE 'N%'  ORDER BY COUNTRY; | 22 Zaanse Snoepfabriek Dirk Luchte Accounting Manager Netherlands  15 Norske Meierier Beate Vileid Marketing Manager Norway |

1. Calculate the total Number of USA Suppliers

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| **Query** | **Results** |
| SELECT SUPPLIERID AS SUPPLIER\_ID ,  COMPANYNAME AS COMPANY\_NAME,  CONTACTNAME AS CONTACT\_NAME,  CONTACTTITLE AS CONTACT\_TITLE,  COUNTRY  FROM NW\_SUPPLIERS  WHERE COUNTRY LIKE 'USA'  ORDER BY COMPANYNAME; | 16 Bigfoot Breweries Cheryl Saylor Regional Account Rep. USA  3 Grandma Kelly's Homestead Regina Murphy Sales Representative USA  19 New England Seafood Cannery Robb Merchant Wholesale Account Agent USA  2 New Orleans Cajun Delights Shelley Burke Order Administrator USA |

1. Calculate the total products by Category sorted by Category Name descending.

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| **Query** | **Results** |
| --CALCULATE THE TOTAL  SELECT c.CATEGORYNAME AS CATEGORY\_NAME, COUNT(p.PRODUCTNAME) AS NUMBER\_PRODUCTS  FROM NW\_PRODUCTS p  INNER JOIN NW\_CATEGORIES c  ON p.CATEGORYID = c.CATEGORYID GROUP BY c.CATEGORYNAME  ORDER BY c.CATEGORYNAME DESC;  --LIST THEM  SELECT c.CATEGORYNAME AS CATEGORY\_NAME, p.PRODUCTNAME AS PRODUCT\_NAME  FROM NW\_PRODUCTS p  INNER JOIN NW\_CATEGORIES c  ON p.CATEGORYID = c.CATEGORYID  ORDER BY c.CATEGORYNAME DESC; | Seafood 12  Produce 5  Meat/Poultry 6  Grains/Cereals 7  Dairy Products 10  Confections 13  Condiments 12  Beverages 12 |

1. Calculate the total employees categorized by Region Description sorted descending – hint make sure the total employees don’t exceed the total number of employees in the employees table

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| **Query** | **Results** |
| SELECT COUNT(DISTINCT e.EMPLOYEEID) AS NUMBER\_OF\_EMPLOYEES,  r.REGIONDESCRIPTION AS REGION\_DESCRIPTION  FROM NW\_TERRITORIES t  INNER JOIN NW\_REGION r  ON t.REGIONID = r.REGIONID  INNER JOIN NW\_EMPLOYEETERRITORIES e  ON t.TERRITORYID = e.TERRITORYID GROUP BY r.REGIONDESCRIPTION; | 2 Western  4 Eastern  2 Northern  1 Southern |

1. Calculate the total number of Orders per by Employee sorted by Employee Last Name

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| **Query** | **Results** |
| SELECT e.LASTNAME AS LAST\_NAME, e.FIRSTNAME AS FIRST\_NAME,  COUNT(o.ORDERID) AS ORDERS  FROM NW\_EMPLOYEES e  INNER JOIN NW\_ORDERS o  ON o.EMPLOYEEID = e.EMPLOYEEID GROUP BY e.LASTNAME, e.FIRSTNAME  ORDER BY e.LASTNAME; | Buchanan Steven 42  Callahan Laura 104  Davolio Nancy 123  Dodsworth Anne 43  Fuller Andrew 96  King Robert 72  Leverling Janet 127  Peacock Margaret 156  Suyama Michael 67 |

1. Determine the total number of Products sold by each Supplier order by company

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| **Query** | **Results** |
| SELECT COUNT(p.PRODUCTID) AS NUMBER\_OF\_PRODUCTS, s.COMPANYNAME AS COMPANY  FROM NW\_PRODUCTS p  INNER JOIN NW\_SUPPLIERS s  ON p.SUPPLIERID = s.SUPPLIERID GROUP BY s.COMPANYNAME  ORDER BY s.COMPANYNAME; | 2 Aux joyeux eccl�siastiques  3 Bigfoot Breweries  2 Cooperativa de Quesos 'Las Cabras'  1 Escargots Nouveaux  3 Exotic Liquids  3 Formaggi Fortini s.r.l.  2 For�ts d'�rables  3 G'day, Mate  2 Gai p�turage  3 Grandma Kelly's Homestead  3 Heli S��waren GmbH Co. KG  3 Karkki Oy  3 Leka Trading  2 Lyngbysild  2 Ma Maison  3 Mayumi's  2 New England Seafood Cannery  4 New Orleans Cajun Delights  1 Nord-Ost-Fisch Handelsgesellschaft mbH  3 Norske Meierier  2 PB Kn�ckebr�d AB  2 Pasta Buttini s.r.l.  5 Pavlova, Ltd.  5 Plutzer Lebensmittelgro�m�rkte AG  1 Refrescos Americanas LTDA  4 Specialty Biscuits, Ltd.  3 Svensk Sj�f�da AB  3 Tokyo Traders  2 Zaanse Snoepfabriek |

1. Calculate the total number of Orders by Employee Last Name sorted by number of orders descending

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| **Query** | **Results** |
| SELECT e.LASTNAME AS LAST\_NAME, e.FIRSTNAME AS FIRST\_NAME,  COUNT(o.ORDERID) AS ORDERS  FROM NW\_EMPLOYEES e  INNER JOIN NW\_ORDERS o  ON o.EMPLOYEEID = e.EMPLOYEEID GROUP BY e.LASTNAME, e.FIRSTNAME  ORDER BY ORDERS DESC; | Peacock Margaret 156  Leverling Janet 127  Davolio Nancy 123  Callahan Laura 104  Fuller Andrew 96  King Robert 72  Suyama Michael 67  Dodsworth Anne 43  Buchanan Steven 42 |

1. Calculate the total revenue amount, include any applicable discount amounts.

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| **Query** | **Results** |
| SELECT ROUND(SUM((UNITPRICE \* QUANTITY) - (UNITPRICE \* QUANTITY \* DISCOUNT)), 2) AS REVENUE  FROM NW\_ORDERDETAILS; | 1265793.04 |

1. Calculate the total revenue amount and list (categorized) by Company Name for all customer who live in Mexico, ordered by company name - ascending. Make sure to apply the discount if applicable. Discount is in percentage i.e. 0.15 is 15%. (show only the first 11 results and overall total rows in the result set)

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| **Query** | **Results** (show only the first 11 results and total rows returned) |
| SELECT ROUND(SUM((d.UNITPRICE \* d.QUANTITY) - (d.UNITPRICE \* d.QUANTITY \* d.DISCOUNT)), 2) AS REVENUE,  c.COMPANYNAME AS COMPANY, c.COUNTRY AS COUNTRY  FROM NW\_ORDERDETAILS d  INNER JOIN NW\_ORDERS o ON o.ORDERID = d.ORDERID  INNER JOIN NW\_CUSTOMERS c ON o.CUSTOMERID = c.CUSTOMERID  WHERE c.COUNTRY LIKE 'Mexico' GROUP BY c.COMPANYNAME, c.COUNTRY  ORDER BY c.COMPANYNAME ASC; | 1402.95 Ana Trujillo Emparedados y helados Mexico  7023.98 Antonio Moreno Taquer�a Mexico  100.8 Centro comercial Moctezuma Mexico  4242.2 Pericles Comidas cl�sicas Mexico  10812.15 Tortuga Restaurante Mexico |

1. Calculate the average revenue, make sure you include any applicable discounts, by Employee, sorted by last name (descending).

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| **Query** | **Results** |
| SELECT ROUND(AVG((d.UNITPRICE \* d.QUANTITY) - (d.UNITPRICE \* d.QUANTITY \* d.DISCOUNT)), 2) AS AVG\_REVENUE,  e.LASTNAME AS LAST\_NAME, e.FIRSTNAME AS FIRST\_NAME  FROM NW\_ORDERDETAILS d  INNER JOIN NW\_ORDERS o ON o.ORDERID = d.ORDERID  INNER JOIN NW\_EMPLOYEES e ON o.EMPLOYEEID = e.EMPLOYEEID GROUP BY e.LASTNAME, e.FIRSTNAME  ORDER BY e.LASTNAME; | 587.97 Buchanan Steven  487.93 Callahan Laura  556.83 Davolio Nancy  722.51 Dodsworth Anne  691.03 Fuller Andrew  707.77 King Robert  631.82 Leverling Janet  554.5 Peacock Margaret  439.96 Suyama Michael |

1. List the customers living in the London or Madrid who have placed orders totaling $15,000 or more – make sure you apply any applicable discounts.

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| **Query** | **Results** |
| SELECT c.COMPANYNAME AS COMPANY,  ROUND(SUM((d.UNITPRICE \* d.QUANTITY) - (d.UNITPRICE \* d.QUANTITY \* d.DISCOUNT)), 2) AS ORDER\_TOTAL,  c.CITY AS CITY  FROM NW\_ORDERS o  INNER JOIN NW\_ORDERDETAILS d  ON o.ORDERID = d.ORDERID  INNER JOIN NW\_CUSTOMERS c  ON o.CUSTOMERID = c.CUSTOMERID  WHERE c.CITY LIKE 'Madrid' OR c.CITY LIKE 'London' GROUP BY c.COMPANYNAME, c.CITY  HAVING (ROUND(SUM((d.UNITPRICE \* d.QUANTITY) - (d.UNITPRICE \* d.QUANTITY \* d.DISCOUNT)), 2) > 15000); | Seven Seas Imports 16215.33 London |

The reports need to be submitted in a MS Word file named First Initial Last Name Project1 such as WPayneProject1.docx. The submission includes the SQL statements and associated results for each associated result set. Submit to the proper drop box.