**Northwind QA**

1. Create a report that shows the CategoryName and Description from the categories table sorted by CategoryName.

2.Create a report that shows the ContactName, CompanyName, ContactTitle and Phone number from the customers table sorted by Phone.

3.Create a report that shows the capitalized FirstName and capitalized LastName renamed as FirstName and Lastname respectively and HireDate from the employees table sorted from the newest to the oldest employee.

4.Create a report that shows the top 10 OrderID, OrderDate, ShippedDate, CustomerID, Freight from the orders table sorted by Freight in descending order.

5.Create a report that shows all the CustomerID in lowercase letter and renamed as ID from the customers table.

6.Create a report that shows the CompanyName, Fax, Phone, Country, HomePage from the suppliers table sorted by the Country in descending order then by CompanyName in ascending order.

7.Create a report that shows CompanyName, ContactNameof all customers from ‘Buenos Aires' only.

8.Create a report showing ProductName, UnitPrice, QuantityPerUnit of products that are out of stock.

9.Create a report showing all the ContactName, Address, City of all customers not from Germany, Mexico, Spain.

10.Create a report showing OrderDate, ShippedDate, CustomerID, Freight of all orders placed on 21 May 1996.

11.Create a report showing FirstName, LastName, Country from the employees not from United States.

12.Create a report that shows the EmployeeID, OrderID, CustomerID, RequiredDate, ShippedDate from all orders shipped later than the required date.

13.Create a report that shows the City, CompanyName, ContactName of customers from cities starting with A or B.

14.Create a report showing all the even numbers of OrderID from the orders table. 15.Create a report that shows all the orders where the freight cost more than $500.

16.Create a report that shows the ProductName, UnitsInStock, UnitsOnOrder, ReorderLevel of all products that are up for reorder.

17.Create a report that shows the CompanyName, ContactName number of all customer that have no fax number.

18.Create a report that shows the FirstName, LastName of all employees that do not report to anybody.

19.Create a report showing all the odd numbers of OrderID from the orders table.

20.Create a report that shows the CompanyName, ContactName, Fax of all customers that do not have Fax number and sorted by ContactName.

21.Create a report that shows the City, CompanyName, ContactName of customers from cities that has letter L in the name sorted by ContactName.

22.Create a report that shows the FirstName, LastName, BirthDate of employees born in the 1950s.

23.Create a report that shows the FirstName, LastName, the year of Birthdate as birth year from the employees table.

24.Create a report showing OrderID, total number of Order ID as NumberofOrders from the orderdetails table grouped by OrderID and sorted by NumberofOrders in descending order.HINT: you will need to use a Groupby statement.

25.Create a report that shows the SupplierID, ProductName, CompanyName from all product Supplied by Exotic Liquids, Specialty Biscuits, Ltd., Escargots Nouveaux sorted by the supplier ID

26.Create a report that shows the ShipPostalCode, OrderID, OrderDate, RequiredDate, ShippedDate, ShipAddress of all orders with ShipPostalCode beginning with "98124".

27.Create a report that shows the ContactName, ContactTitle, CompanyName of customers that the has no "Sales" in their ContactTitle.

28.Create a report that shows the LastName, FirstName, City of employees in cities other "Seattle";

29.Create a report that shows the CompanyName, ContactTitle, City, Country of all customers in any city in Mexico or other cities in Spain other than Madrid.

30.Create a select statement that outputs the following:

31.Create a report that shows the ContactName of all customers that do not have letter A as the second alphabet in their Contactname.

32.Create a report that shows the average UnitPrice rounded to the next whole number, total price of UnitsInStock and maximum number of orders from the products table. All saved as AveragePrice, TotalStock and MaxOrder respectively.

33.Create a report that shows the SupplierID, CompanyName, CategoryName, ProductName and UnitPrice from the products, suppliers and categories table.

34.Create a report that shows the CustomerID, sum of Freight, from the orders table with sum of freight greater $200, grouped by CustomerID.HINT: you will need to use a Groupby and a Having statement.

35.Create a report that shows the OrderID ContactName, UnitPrice, Quantity, Discount from the order details, orders and customers table with discount given on every purchase.

36.Create a report that shows the EmployeeID, the LastName and FirstName as employee, and the LastName and FirstName of who they report to as manager from the employees table sorted by EmployeeID.HINT: This is a SelfJoin.

37.Create a report that shows the average, minimum and maximum UnitPrice of all products as AveragePrice, MinimumPrice and MaximumPrice respectively.

38.Create a view named CustomerInfo that shows the CustomerID, CompanyName, ContactName, ContactTitle, Address, City, Country, Phone, OrderDate,RequiredDate,ShippedDate from the customers and orders table.HINT: Create a View.

39.Change the name of the view you created from customerinfo to customer details.

40.Create a view named ProductDetails that shows the ProductID, CompanyName, ProductName, CategoryName, Description, QuantityPerUnit, UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, Discontinued from the supplier, products and categories tables.HINT: Create a View

41.Drop the customer details view.

42.Create a report that fetch the first 5 character of categoryName from the category tables and renamed as ShortInfo

43.Create a copy of the shipper table as shippers\_duplicate. Then insert a copy of shippers data into the new tableHINT: Create a Table, use the LIKE Statement and INSERT INTO statement.

44.Create a select statement that outputs the following from the shippers\_duplicate Table:

45.Create a report that shows the CompanyName and ProductName from all product in the Seafood category.

46.Create a report that shows the CategoryID, CompanyName and ProductName from all product in the categoryID 5.

47.Delete the shippers\_duplicate table.

48.Create a select statement that ouputs the following from the employees table. NB:The age might differ depending on the year you are attempting this query.

 **Basic Stored Procedure:**

* Write a stored procedure that retrieves all orders for a given customer ID. The customer ID should be passed as a parameter.

 **Stored Procedure with Multiple Parameters:**

* Create a stored procedure that retrieves the order details for a given order ID and product ID. Both the order ID and product ID should be passed as parameters.

 **Stored Procedure with Aggregation:**

* Write a stored procedure that calculates the total sales amount for a given product ID. The product ID should be passed as a parameter.

 **Stored Procedure with Join:**

* Create a stored procedure that retrieves all orders along with the customer name and employee name for a given order date range. The start date and end date should be passed as parameters.

 **Stored Procedure with Conditional Logic:**

* Write a stored procedure that updates the unit price of a product based on the product ID. If the new price is less than the current price, apply a 10% discount. The product ID and new price should be passed as parameters.

 **Stored Procedure with Transactions:**

* Create a stored procedure that transfers stock between two products. The procedure should decrease the stock quantity of one product and increase the stock quantity of another product. The procedure should use a transaction to ensure data integrity. The product IDs and quantities should be passed as parameters.

 **Stored Procedure with Error Handling:**

* Write a stored procedure that inserts a new customer into the Customers table. If a customer with the same CustomerID already exists, the procedure should raise an error.

 **Stored Procedure with Output Parameters:**

* Create a stored procedure that calculates the total number of orders and the total sales amount for a given customer ID. The customer ID should be passed as a parameter, and the total number of orders and total sales amount should be returned as output parameters.

 **Stored Procedure for Reporting:**

* Write a stored procedure that generates a sales report for a given employee ID. The report should include the total number of orders and total sales amount processed by the employee. The employee ID should be passed as a parameter.

 **Stored Procedure with Dynamic SQL:**

* Create a stored procedure that retrieves product information based on a dynamic WHERE clause. The WHERE clause should be passed as a parameter.