AdventureWorks SQL Assignment

# **JOINS**

1. Write a query to list each product name along with its product category name by joining Production.Product and Production.ProductCategory tables.

2. Write a query to display each sales order ID with the customer's first and last names by joining Sales.SalesOrderHeader and Sales.Customer.

3. Write a query to show each employee’s name along with their manager’s name by performing a self-join on the HumanResources.Employee table.

# **GROUP BY Statements: Mathematical Functions and Operators**

4. Write a query to count the number of products in each product category using Production.Product and Production.ProductCategory.

5. Write a query to find the average order total for each customer using Sales.SalesOrderHeader, grouping by customer ID.

6. Write a query to display the maximum and minimum list prices for each product subcategory using Production.Product and Production.ProductSubcategory.

# **Views**

7. Create a view named CustomerOrdersSummary that shows customer ID, total number of orders, and total amount spent by each customer using Sales.SalesOrderHeader.

8. Create a view named ProductStockSummary that lists product ID, product name, and quantity available from the Production.ProductInventory table.

# **Subqueries – Independent Subqueries**

9. Write a query to list all products whose list price is higher than the average list price of all products.

10. Write a query to find customers who have placed more orders than the average number of orders per customer.