-- Level B SQL Queries Assignment (Based on AdventureWorks)

-- 1. List out the orders that are not shipped yet

SELECT \* FROM Sales.SalesOrderHeader WHERE ShipDate IS NULL;

-- 2. List out all the shipped orders

SELECT \* FROM Sales.SalesOrderHeader WHERE ShipDate IS NOT NULL;

-- 3. List out the name and order date of orders placed by customers who live in Paris

SELECT p.FirstName, p.LastName, h.OrderDate

FROM Sales.SalesOrderHeader h

JOIN Sales.Customer c ON h.CustomerID = c.CustomerID

JOIN Person.Person p ON c.PersonID = p.BusinessEntityID

JOIN Person.Address a ON h.BillToAddressID = a.AddressID

WHERE a.City = 'Paris';

-- 4. List out all the orders placed in the month of March

SELECT \* FROM Sales.SalesOrderHeader WHERE MONTH(OrderDate) = 3;

-- 5. List out the orders placed in the year 2008

SELECT \* FROM Sales.SalesOrderHeader WHERE YEAR(OrderDate) = 2008;

-- 6. List out the orders placed on 15th March 2008

SELECT \* FROM Sales.SalesOrderHeader WHERE OrderDate = '2008-03-15';

-- 7. List out the customers who ordered a product more than once

SELECT CustomerID, ProductID, COUNT(\*) AS OrderCount

FROM Sales.SalesOrderDetail d

JOIN Sales.SalesOrderHeader h ON d.SalesOrderID = h.SalesOrderID

GROUP BY CustomerID, ProductID

HAVING COUNT(\*) > 1;

-- 8. List out the product name and quantity sold for each product

SELECT p.Name, SUM(d.OrderQty) AS TotalQuantity

FROM Sales.SalesOrderDetail d

JOIN Production.Product p ON d.ProductID = p.ProductID

GROUP BY p.Name;

-- 9. List out the customer name and total purchase amount for each customer

SELECT p.FirstName, p.LastName, SUM(h.TotalDue) AS TotalPurchase

FROM Sales.SalesOrderHeader h

JOIN Sales.Customer c ON h.CustomerID = c.CustomerID

JOIN Person.Person p ON c.PersonID = p.BusinessEntityID

GROUP BY p.FirstName, p.LastName;

-- 10. List out the product name and total revenue generated for each product

SELECT p.Name, SUM(d.LineTotal) AS TotalRevenue

FROM Sales.SalesOrderDetail d

JOIN Production.Product p ON d.ProductID = p.ProductID

GROUP BY p.Name;