SQL Coding –Attempt - 1

Date: 11ᵗʰ Oct

Duration: 1.5 hrs

Total marks: 50

Section A   7*2=14M

1. List the details of books that were published after 2015 and are available on Stock
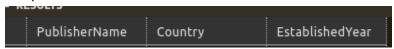   Table: BooksInventory
   Output:

BookID	Title	PublishedYear	Stock

2. Display the details of publishers established before the year 2000, but exclude those located in 'UK'
   Table: Publishers
   Output:

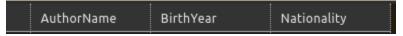 | PublisherName | Country | EstablishedYear |
   | --- | --- | --- |

3. Display the names of authors who were born after 1970, but only include those with 'American' or 'Canadian' nationality
   Table: Authors
   Output:

AuthorName	BirthYear	Nationality

4. Find the second most expensive book in the inventory.
   Table: BooksInventory
   Output:

Title	SecondHighes...

5. Find all books whose stock is below 10 but priced higher than 15 dollars
   Table: BooksInventory
   Output:

Title	Stock	Price

6. List all publishers that were established in the same year and located in the same country.
   Table: Publishers
   Output:

PublisherName	EstablishedYear	Country

7. Display the books that have been published either before 2000 or priced above 30 dollars.
   Table:
   Output:

Title	PublishedYear	Price

Section B   6*5=30M

8. Find the salesperson with the highest total sales in each region, and display the salesperson's total sales, along with their percentage contribution to the total regional sales.
   Table: SalesTeam, SalesOrders
   Output:

Region	SalespersonN...	TotalSales	ContributionP...

9. For each salesperson, calculate the percentage increase or decrease in total sales between the first half of 2022 (January to June) and the second half of 2022 (July to December). List only those salespeople who had a percentage change greater than 20%.
   Table: SalesTeam, SalesOrders
   Output:

SalespersonN...	FirstHalfSales	SecondHalfSales	PercentageCh...

10. Find all products that have received an average rating of more than 4.5, but were not ordered in the second quarter of 2022. Include the total quantity ordered for each of these products.
    Table: ProductsList, CustomerOrders, CustomerFeedback
    Output:

ProductName	TotalQuantity...

11. Find the top 5 most profitable products (based on revenue generated from orders) over the last 3 years. Include products where the effective price (price minus any discount) was consistently high in each year.
    Table: ProductsList, CustomerOrders,OrderSummary

Output:

ProductName	TotalProfit

12. For each product category, calculate the percentage of orders that were made in 2022 compared to the total orders made since the product's release date. List only the categories where more than 50% of their orders were made in 2022.
Table: ProductsList, CustomerOrders
Output:

Category	OrdersIn2022	TotalOrders	PercentageOr...

13. For each vendor, find the product with the lowest price-to-stock ratio and display the vendor's name, product name, and the ratio. Exclude vendors with fewer than 3 products.
(Price-to-stock= Stock/Price)
Table: Vendors, Productlist
Output:

VendorName	ProductName	LowestRatio

Section C   1*6=6M

14. Identify all salespeople who met at least 50% of their sales target in 2022 but failed to meet their half-yearly target in either the first or second half of the year. For each Identified salesperson, display their total sales, half-yearly sales, and their target.
Table: SalesTeams,SalesOrders
Output:

SalespersonN...	TotalSales	HalfYearlySales	HalfYear	Target