QUESTION 3

Query:

(a) Goal: Summarizing Data in Groups

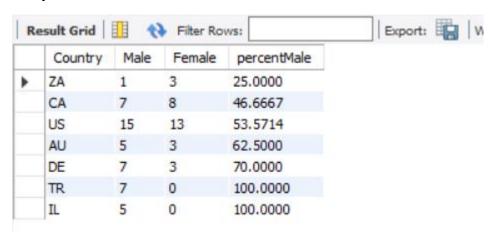
Table: customer

Query: Write a query that displays the following statistics for each country:

- Total number of customers
- Total number of male customers
- Total number of female customers
- Percent of all customers that are male (Percent Male).

Display the result by value of Percent Male so that the country with the lowest value is listed first, with the remaining countries following in ascending order.

Output:



Query:

(b) Goal: Summarizing Data in Groups

Table: product_dim, order_fact

Query: Create a result by combining two tables.

- Include columns Product_ID, Product_Name from product_dim table.
- Include a column with the label Total Sold. Use a summary function to create this column, which displays the quantity sold for each product.
- Specifies the tables product_dim, with the alias p and order_fact with the alias o.
- Join the tables by matching the values of the appropriate columns in each table.
- Groups the results by Product_ID from product_dim table and Product_Name.
- Orders the rows so that products with the highest number sold appear at the top of the report and then by Product_Name.

Note: DO NOT use nested queries

Output:

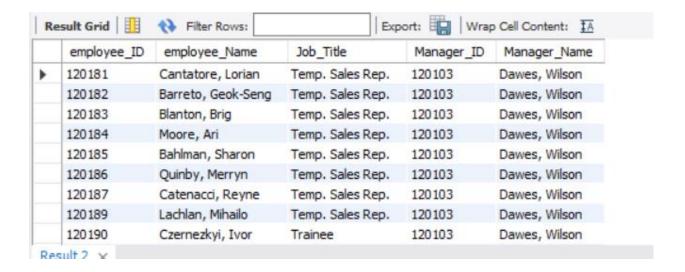
	product_id	product_name	totalsold	
•	2.30101E+11	Backpack Flag, 6,5x9 Cm.	153	
	2.30101E+11	Basic 10, Left , Yellow/Black	153	
	2.30101E+11	Collapsible Water Can	153	
	2.30101E+11	Comfort Shelter	153	
	2.30101E+11	Cup Picnic Mug 25 Cl.	153	
	2.30101E+11	Dome Tent Monodome Alu	153	
	2.30101E+11	Expedition 10,Small,Left,Blue Ribbon	153	
	2.30101E+11	Expedition 10,Small,Right,Blue Ribbon	153	
	2.30101E+11	Expedition 20, Large, Right, Forestgreen	153	
	2.30101E+11	Expedition 20,Large,Right,Forestgreen	153	

Query:

(c) ${\bf Goal:}$ Create a result with a self-join.

Table: employee_addresses, staff

Query: Display result of all trainees and workers at company. For each trainee or temporary worker, the report should include the employee ID, name and job title, and manager ID and name. The report should be ordered by Employee ID.



Query:

(d) Goal: LEAD and LAG functions

Table: employee_payroll

Query: 1) Calculate the difference between the salary of the current row and the previous row. 2) Calculate the difference between the salary of current row and the following row.

Output:

