Given below are the questions along with the solution:

1. ***the total amount spent and the country for the Pending delivery status for each country.***

*SELECT c.customer\_country,*

*SUM(o.amount) AS pending\_amount*

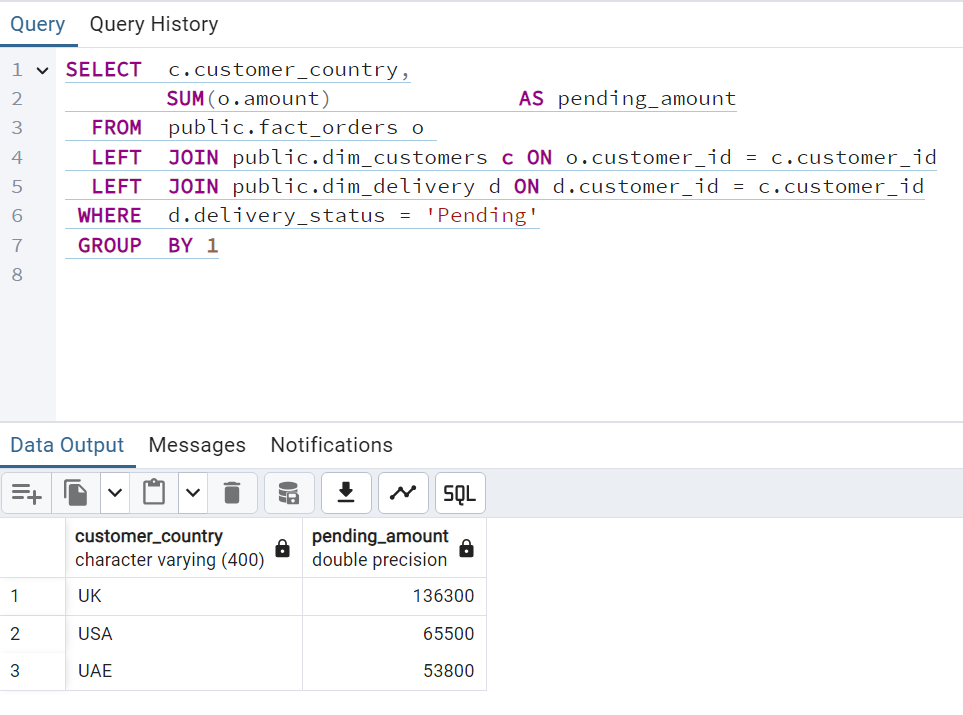
*FROM public.fact\_orders o*

*LEFT JOIN public.dim\_customers c ON o.customer\_id = c.customer\_id*

*LEFT JOIN public.dim\_delivery d ON d.customer\_id = c.customer\_id*

*WHERE d.delivery\_status = 'Pending'*

*GROUP BY 1*

**

1. ***the total number of transactions, total quantity sold, and total amount spent for each customer, along with the product details.***

*SELECT c.customer\_id,*

*o.item\_name,*

*COUNT(o.order\_id) AS transactions,*

*SUM(o.amount) AS sales*

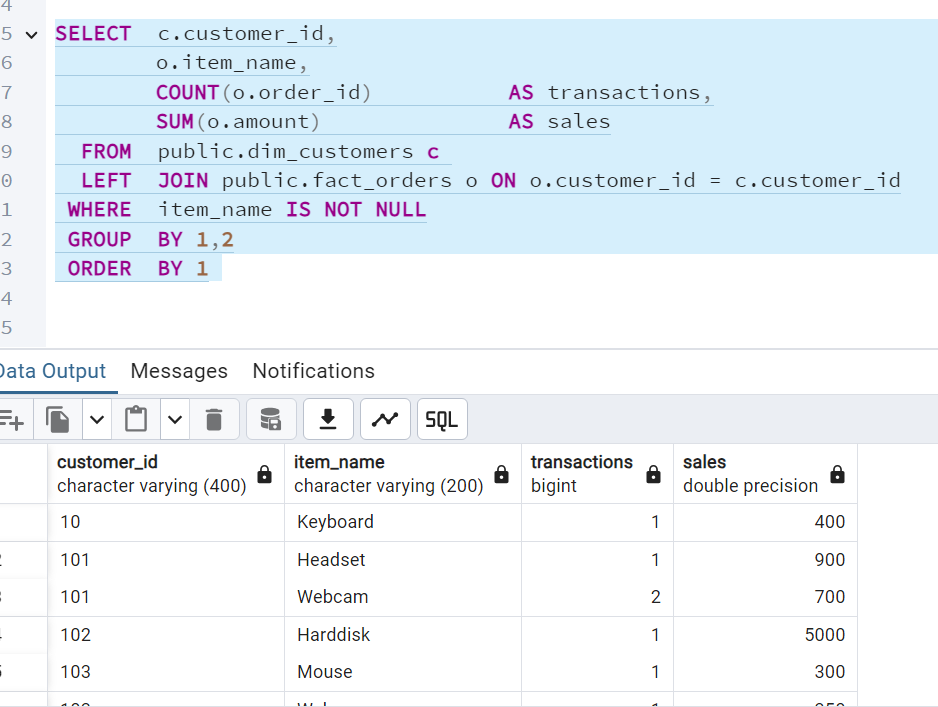
*FROM public.dim\_customers c*

*LEFT JOIN public.fact\_orders o ON o.customer\_id = c.customer\_id*

*WHERE item\_name IS NOT NULL*

*GROUP BY 1,2*

*ORDER BY 1*

**

1. ***the maximum product purchased for each country.***

*WITH CTE AS (*

*SELECT customer\_country,*

*o.item\_name,*

*COUNT(1) AS no\_of\_prod*

*FROM public.dim\_customers c*

*LEFT JOIN public.fact\_orders o ON o.customer\_id = c.customer\_id*

*WHERE item\_name IS NOT NULL*

*GROUP BY 1,2*

*ORDER BY 3 DESC*

*),*

*cte2 AS (*

*SELECT customer\_country,*

*item\_name,*

*no\_of\_prod,*

*RANK () OVER(PARTITION BY customer\_country ORDER BY no\_of\_prod DESC) AS rank*

*FROM CTE*

*)*

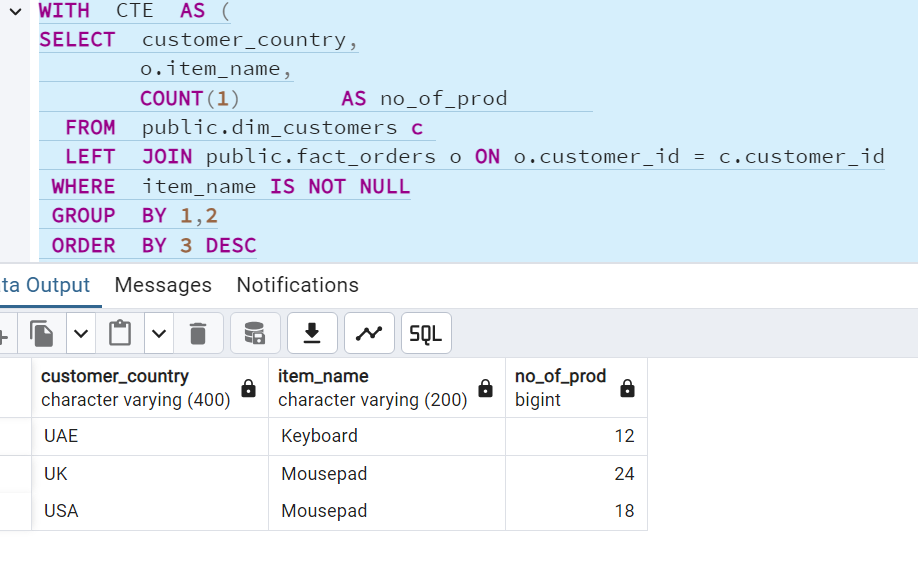
*SELECT customer\_country,*

*item\_name,*

*no\_of\_prod*

*FROM cte2*

*WHERE rank = 1;*

**

1. ***the most purchased product based on the age category less than 30 and above 30.***

*WITH cat1 AS (*

*SELECT 'age above 30' AS category,*

*o.item\_name,*

*count(o.item\_name) AS count*

*FROM public.dim\_customers c*

*LEFT JOIN public.fact\_orders o ON o.customer\_id = c.customer\_id*

*WHERE c.customer\_age > 30*

*GROUP BY 1,2*

*),*

*cat2 AS (*

*SELECT 'age below 30' AS category,*

*o.item\_name,*

*count(o.item\_name) AS count*

*FROM public.dim\_customers c*

*LEFT JOIN public.fact\_orders o ON o.customer\_id = c.customer\_id*

*WHERE c.customer\_age < 30*

*GROUP BY 1,2*

*),*

*final AS (*

*SELECT \*,*

*RANK () OVER(PARTITION BY category ORDER BY count DESC) AS rank*

*FROM cat1*

*UNION ALL*

*SELECT \*,*

*RANK () OVER(PARTITION BY category ORDER BY count DESC) AS rank*

*FROM cat2*

*)*

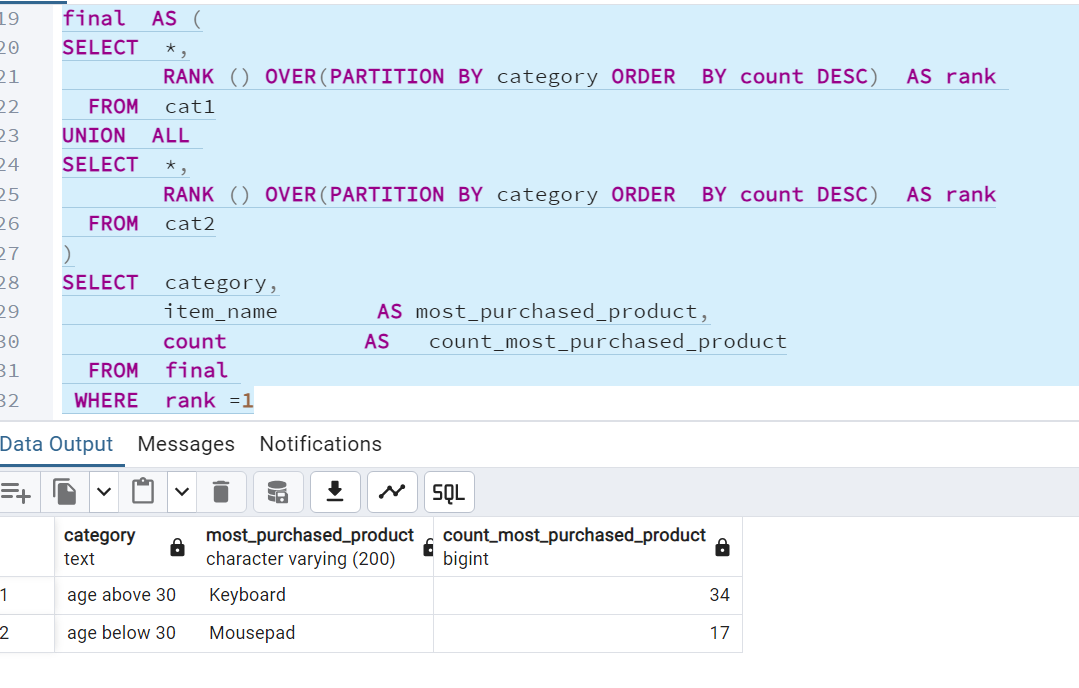
*SELECT category,*

*item\_name AS most\_purchased\_product,*

*count AS count\_most\_purchased\_product*

*FROM final*

*WHERE rank =1*

**

1. *t****he country that had minimum transactions and sales amount****.*

*SELECT c.customer\_country,*

*COUNT(o.order\_id) AS transactions,*

*SUM(o.amount) AS sales*

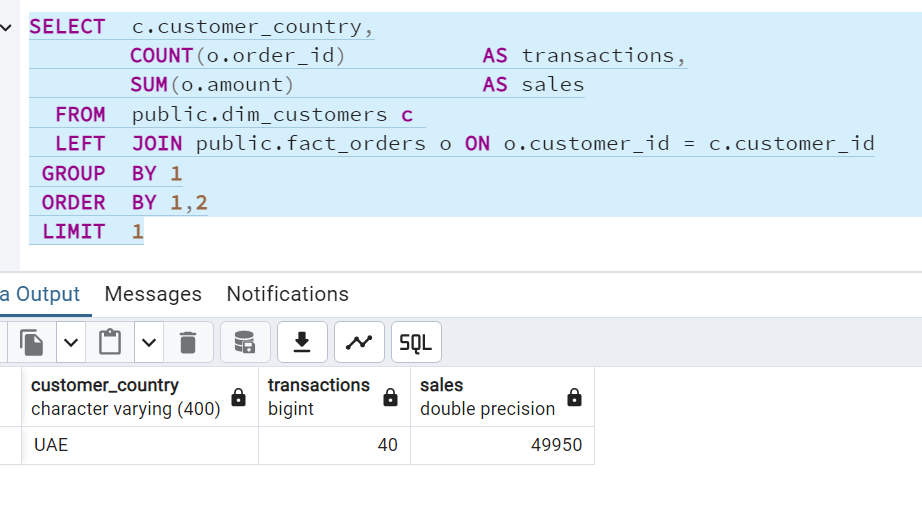
*FROM public.dim\_customers c*

*LEFT JOIN public.fact\_orders o ON o.customer\_id = c.customer\_id*

*GROUP BY 1*

*ORDER BY 1,2*

*LIMIT 1*

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