Brazilia E-Commerce Analysis

Question and Syntax

--1.Retrieve the total number of customers percentage per state.Keep in Desc Order

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∃Select
```

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customer_state,
Count (customer_id) AS Total_Customer,
COUNT (customer_id) * 100 / SUM (Count (customer_id)) Over () As Percentage_Customer
FROM [Brazilian E-Commerce Dataset ].[dbo].[olist_customers_dataset]
GROUP by customer_state
ORDER by Percentage_Customer Desc;
```

As per data, SP are top states where most of the customers placing orders we cover 41 % of total spends.

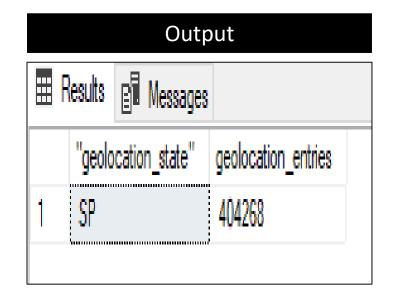
Output

■ F	Results 📳 Messa	ages	
	customer_state	Total_Customer	Percentage_Customer
1	SP	41746	41
2	RJ	12852	12
3	MG	11635	11
4	PR	5045	5
5	RS	5466	5
6	SC	3637	3
7	BA	3380	3
8	GO	2020	2
9	ES	2033	2
10	DF	2140	2
11	CE	1336	1
12	PE	1652	1
13	PB	536	0
14	PA	975	0
15	AC	81	0
16	SE	350	0
17	MA	747	0
18	TO	280	0
19	RO	253	0
20	AL	413	0
21	RR	46	0
22	MT	907	0
23	MS	715	0
24	AM	148	0

As per data, These are Top 10 unique cities where
we retrieve from data.

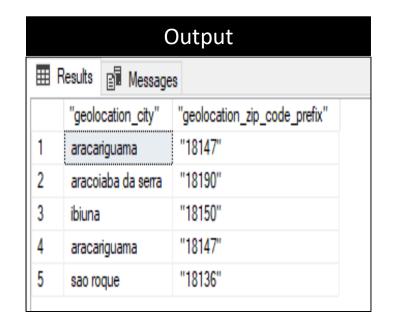
	Output	
⊞ F	Results 📳 Messages	
	customer_city	
1	franca	
2	sao bemardo do campo	
3	sao paulo	
4	mogi das cruzes	
5	campinas	
6	jaragua do sul	
7	timoteo	
8	curitiba	
9	belo horizonte	
10	montes claros	

Question and Syntax --3.Identify the states with the most geolocation entries. SELECT Top 1 ["geolocation_state"], COUNT (["geolocation_zip_code_prefix"]) As geolocation_entries FROM [Brazilian E-Commerce Dataset].[dbo].[olist_geolocation_dataset] GROUP By ["geolocation_state"] ORDER by geolocation_entries Desc;



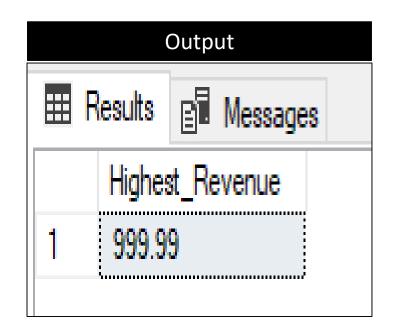
As per geolocation data, we Notice SP is state in which most devices zip code fetch and received orders

Question and Syntax



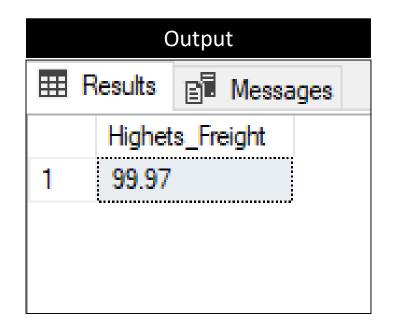
These are geolocation cities in which geolocation zip code prefix is more then one city where we received twice orders.

--5.Retrieve the highest revenue (price) from all orders. SELECT MAX (["price"]) As Highest Revenue FROM [Brazilian E-Commerce Dataset].[dbo].[olist_order_items_dataset]

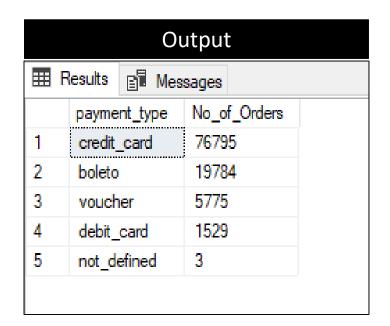


> The Highest revenue recorded from orders are 999.

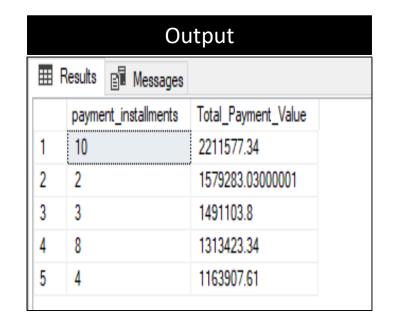
--6.Calculate the Max freight_value for delivered orders. | SELECT | MAX (["freight_value"]) As Highets_Freight | | FROM [Brazilian E-Commerce Dataset], [dbo], [olist_order_items_dataset]



> The Maximum freight value recorded in delivered orders is 99.97



> As per checking Credit Cards contributed max amount in payment type, followed by boleto and voucher



> As per checking installment data, we retrieve for big amount payment value we have done more one installment

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--9.Retrieve the list of top 5 orders that were delivered after their estimated delivery date.

SELECT TOP 5

["order_id"],

["order_estimated_delivery_date"],

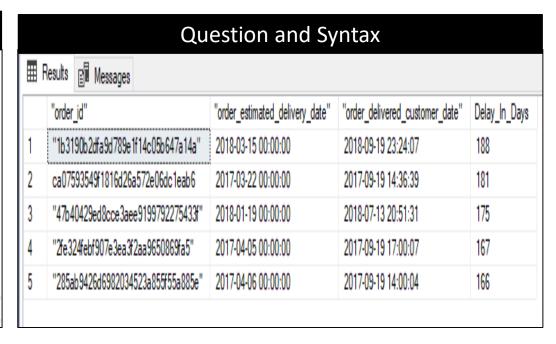
["order_delivered_customer_date"],

DATEDIFF(DAY, ["order_estimated_delivery_date"], ["order_delivered_customer_date"]) AS Delay_In_Days

FROM [Brazilian E-Commerce Dataset ].[dbo].[olist_orders_dataset]

WHERE ["order_delivered_customer_date"] > ["order_estimated_delivery_date"]

ORDER BY Delay_In_Days DESC;
```



As per checking estimated delivery date highlight significant logistical inefficiencies, requiring focused investigation and targeted interventions to enhance delivery performance

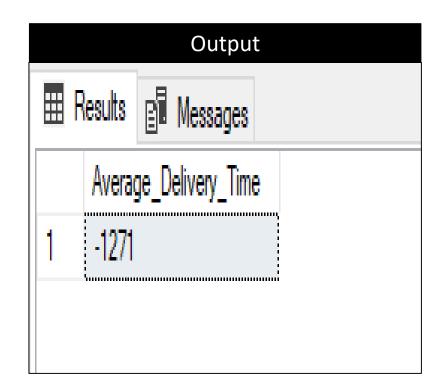
```
--10.Calculate the average delivery time for orders

SELECT

AVG(DATEDIFF(DAY, ["order_purchase_timestamp"], ["order_delivered_customer_date"])) AS Average_Delivery_Time
FROM [Brazilian E-Commerce Dataset ].[dbo].[olist_orders_dataset]

WHERE ["order_delivered_customer_date"] IS NOT NULL

AND ["order_purchase_timestamp"] IS NOT NULL;
```



As per checking delivery timer orders we found average delivery time is (-1,271)

Question and Syntax

	Output	
	"seller_id"	Total_Revenue
1	"4869f7a5dfa277a7dca6462dcf3b52b2"	229472.63
2	"53243585a1d6dc2643021fd1853d8905"	222776.05
3	"4a3ca9315b744ce9f8e9374361493884"	200472.92
4	fa1c13f2614d7b5c4749cbc52fecda94	194042.03
5	"7c67e1448b00f6e969d365cea6b010ab"	187923.89
6	"7e93a43ef30c4f03f38b393420bc753a"	176431.87
7	da8622b14eb17ae2831f4ac5b9dab84a	160236.57
8	"7a67c85e85bb2ce8582c35f2203ad736"	141745.53
9	"1025f0e2d44d7041d6cf58b6550e0bfa"	138968.55
10	"955fee9216a65b617aa5c0531780ce60"	135171.7

> These are top 10 sellers who generating highest revenue.

```
--12. Find top 10 Seller state, keep order in Desc order

SELECT
["seller_state"],

COUNT (["seller_id"]) As No_of_sellers

FROM [Brazilian E-Commerce Dataset ].[dbo].[olist_sellers_dataset]

Group by ["seller_state"]

ORDER by No_of_sellers Desc;
```

	"seller_state"	No_of_sellers
1	SP	1849
2	PR	349
3	MG	244
4	SC	190
5	RJ	170
6	RS	128
7	GO	40
8	DF	30
9	ES	23
10	BA	19

> These are top 10 state which we received highest No of sellers.