Business Case: Ecommerce Company's Operations

Gain valuable insights into ecommerce company's operations in Brazil. The information shed light on various aspects of the business, such as order processing, pricing strategies, payment and shipping efficiency, customer demographics, product characteristics, and customer satisfaction levels.

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Actionable Insights and Recommendations

1. Actionable insight

```
----prefered payment_type

SELECT DISTINCT p.payment_type,count(p.order_id) cnt

from `Target_Business_Case.payments` p

group by p.payment_type

order by count desc
```

tow	payment_type ▼	cnt ▼
1	credit_card	76795
2	UPI	19784
3	voucher	5775
4	debit_card	1529
5	not_defined	3

payment type "Credit card" has maximum orders and consistent month on month orders Followed by UPI payment type in consistency

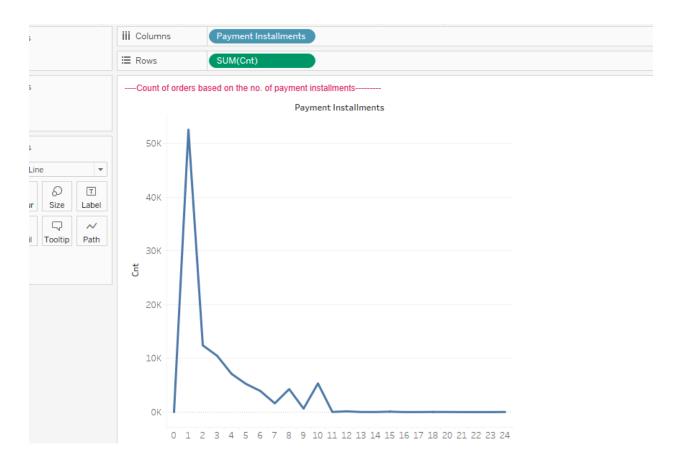


Recommendation:

Target should promote these options to encourage more customers to use them. This can be done through targeted messaging, incentives, or highlighting the benefits of using these preferred payment types during the checkout process.

2. Actionable Insight

Source Query



maximum orders (count 52546) with payment installments =1 minimum orders (count 1) with payment installments =22 & 23 More the installments lesser is the number of orders

Recommendation:

Promote 1 installment payment type on credit cards by giving discount on one installment payment options or designing effective promotions or strategise the prices to incentivize customers to choose 1 payment installments.

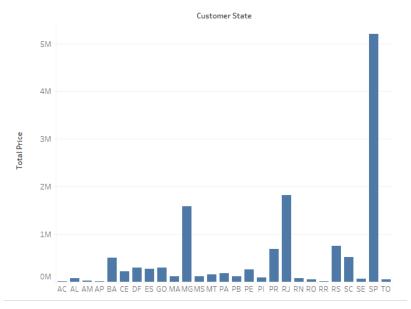
3. Actionable Insights

Source query

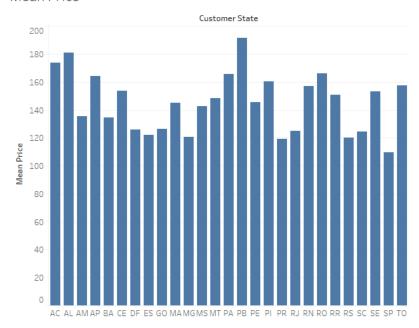
- SP state has lowest avg freight_value and RR state has highest avg freight_value
- SP state has highest avg time to delivery, MG has least avg time to delivery
- SP highest time to deliver with more estimated delivery time



Total Price

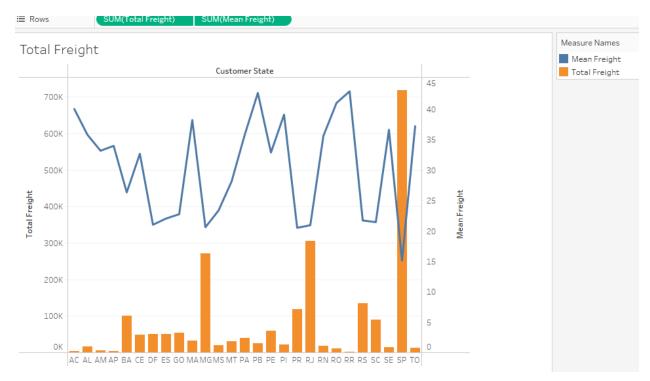


Mean Price



Recommendation:

Consider adjusting prices in states with lower mean prices to improve profitability, or explore opportunities to increase prices in states with higher mean prices while monitoring customer response.



Recommendation:

Examine the mean freight value by customer state to identify states where shipping costs are higher or lower compared to the overall average. Use this insight to optimize your freight cost management. Explore options such as negotiating better shipping rates or implementing efficient logistics solutions to reduce costs in states with higher mean freight values.

4. Actionable Insight

Source query

Outcome: 58% increase in the cost of orders from 2017 to 2018

58% increase indicates a significant growth in revenue during this period. This insight highlights the overall positive trend and growth in the business.

5. Actionable Insight

Source query

Maximum customers from customer state SP and Minimum customers from customer state RR

Recommendation:

SP has a maximum customer base, allocate resources, marketing efforts, and operational capabilities to cater to the needs and preferences of customers.

RR has the minimum customer base followed by AP, AC, AM, RO.

Evaluate the feasibility of expanding your customer base and market presence in states with a smaller customer population, considering factors such as competition, logistics, and market demand.

6. Actionable Insight:

Source query

24 states had minimum sales in month 1 throughout years 2016,2017,2018 Maximum orders in month 10

Recommendation:

Develop region-specific promotions, discounts, or campaigns to drive sales during historically low-performing months.

Experiment with demand generation strategies during the months with historically low sales. Consider introducing new products or services, collaborating with complementary businesses, or running targeted advertising campaigns to stimulate customer interest and drive sales during these periods. Monitor the impact of these strategies and iterate based on customer response and sales performance.

7. Actionable Insight:

Source query

Maximum sales take place during afternoon followed by night, minimum sales are during dawn.

Recommendation:

Shift marketing efforts: Allocate more resources, such as advertising and promotions, during the afternoon and evening periods when sales are at their peak. This can help maximize visibility and engagement with customers during these high-sales periods.

Optimize staffing: Adjust employee schedules and staffing levels to align with the periods of maximum sales. Ensure that you have adequate staff during the afternoon and evening shifts to provide optimal customer service and handle higher transaction volumes.

Pricing strategies: consider adjusting pricing during these periods to optimize revenue generation.

Explore reasons behind low sales during dawn: Investigate the potential reasons behind the lower sales during the dawn period. Are there any operational constraints, customer preferences, or external factors contributing to this trend? By identifying the underlying causes, you can develop strategies to mitigate the impact and potentially increase sales during this period.

Analysis Report

Question 1:

Import the dataset and do usual exploratory analysis steps like checking the structure & characteristics of the dataset

Data type of columns in a table

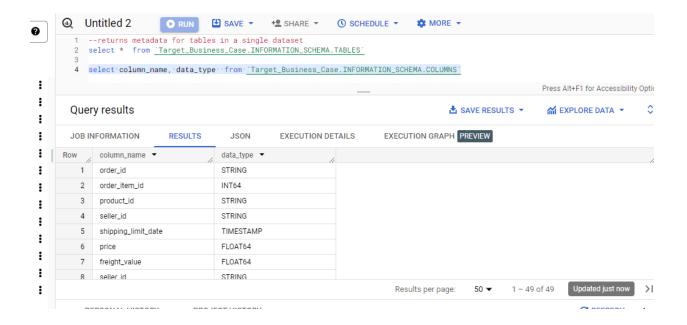
Time period for which the data is given

Cities and States of customers ordered during the given period

Solution:

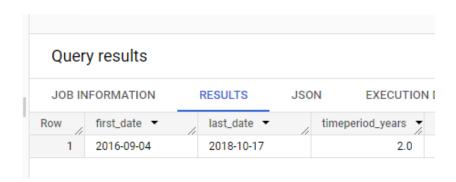
Data type of columns in a table

select column_name, data_type from
`Target_Business_Case.INFORMATION_SCHEMA.COLUMNS`

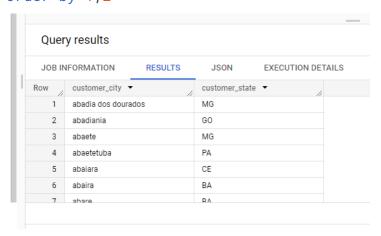


Time period for which the data is given

```
SELECT MIN(date(order_purchase_timestamp)) first_date,
max(date(order_delivered_customer_date)) last_date,
round(timestamp_diff(max(order_delivered_customer_date), MIN(order_purc
hase_timestamp), day)/365) timeperiod_years
from `Target_Business_Case.orders`
```



Cities and States of customers ordered during the given period select customer_city, customer_state from `Target_Business_Case.customers` group by customer_city, customer_state order by 1,2



Question 2:

In-depth Exploration:

- 1. Is there a growing trend on e-commerce in Brazil? How can we describe a complete scenario? Can we see some seasonality with peaks at specific months?
- 2. What time do Brazilian customers tend to buy (Dawn, Morning, Afternoon or Night)?

Solution:

Is there a growing trend on e-commerce in Brazil?

Yes, the total number of orders is increasing every year, there was a drastic increase in the orders from 2016 to 2017, the count increased by factor 137. The major factor behind this drastic change is the sales started in the 10th month of 2016.

While 2017 to 2018 there was a slight increase in the number of orders, the count increased by factor 1.2

-----Yearly Trend-----

```
select main.year, main.orders, round(main.orders/lag(orders)
over(order by main.year)) factor
  from
  (
    select temp.year, count(temp.year) orders
  from
  (
    select order_id, order_purchase_timestamp, extract(year from
order_purchase_timestamp) year,
    extract(month from order_purchase_timestamp) month
    from `Target_Business_Case.orders`
  ) temp
  group by temp.year
  ) main
    order by main.orders
```





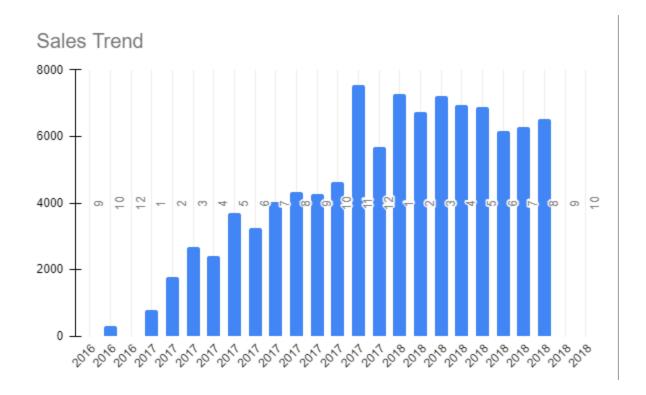
Can we see some seasonality with peaks at specific months?

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In 2017, sales started in the 9th month and increased in the 10th month. There were no sales in the 11th month and 1 order in the 12th month.

In 2017, sales increased monthly in 2017, it was maximum in 11th month of 2017 then it decreased in 12th month.

In 2018, sales were maximum in 1st month then decreased in 2nd month, again rising in 3rd month followed by decline for next 3 months. It was raised again for the next two months.



```
select temp.year, temp.month, count(temp.year) orders,
dense_rank() over(partition by temp.year order by count(temp.year)

desc ) rnk
from
(
    select order_id, order_purchase_timestamp, extract(year from

order_purchase_timestamp) year,
    extract(month from order_purchase_timestamp) month
    from `Target_Business_Case.orders`
) temp
group by temp.year, temp.month
order by temp.year, rnk
```

Query results

JOB IN	IFORMATION	RESULTS	JSON	EXECUTION	DETAILS	EXE
Row	year ▼	month ▼	orders	· //	rnk ▼	//
1	2016	1	0	324		1
2	2016		9	4		2
3	2016	1	2	1		3
4	2017	1	1	7544		1
5	2017	1	2	5673		2
6	2017	1	0	4631		3
7	2017		8	4331		4
8	2017		9	4285		5
9	2017		7	4026		6
10	2017		5	3700		7
11	2017		6	3245		8
12	2017		3	2682		9
13	2017		4	2404		10
4.4	0017		0	1700		4.4

What time do Brazilian customers tend to buy (Dawn, Morning, Afternoon or Night)?

Outcome:

Maximum sales take place during afternoon followed by night, minimum sales are during dawn.

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```
-----Sales trend by hours-----
select temp.TimeOfDay, count(temp.TimeOfDay) as count_orders
from
(
SELECT
```

```
order_id, order_purchase_timestamp,
    CASE
    WHEN EXTRACT(HOUR FROM order_purchase_timestamp) >= 0 AND

EXTRACT(HOUR FROM order_purchase_timestamp) < 6 THEN 'Dawn'
    WHEN EXTRACT(HOUR FROM order_purchase_timestamp) >= 6 AND

EXTRACT(HOUR FROM order_purchase_timestamp) < 12 THEN 'Morning'
    WHEN EXTRACT(HOUR FROM order_purchase_timestamp) >= 12 AND

EXTRACT(HOUR FROM order_purchase_timestamp) < 18 THEN 'Afternoon'
    ELSE 'Night'
    END AS TimeOfDay

FROM
    `Target_Business_Case.orders`
) temp

group by temp.TimeOfDay

order by count_orders</pre>
```

Query results

JOB IN	IFORMATION	RESULTS	JSON	EXE	ECUTION DETAILS	EXECUTION GRAPH PREVIEW
Row	TimeOfDay ▼	//	count_orders	· /		
1	Dawn		4	1740		
2	Morning		22	2240		
3	Night		34	1100		
4	Afternoon		38	3361		

Question 3:

Evolution of E-commerce orders in the Brazil region:

- 1. Get month on month orders by states
- 2. Distribution of customers across the states in Brazil

Solution:

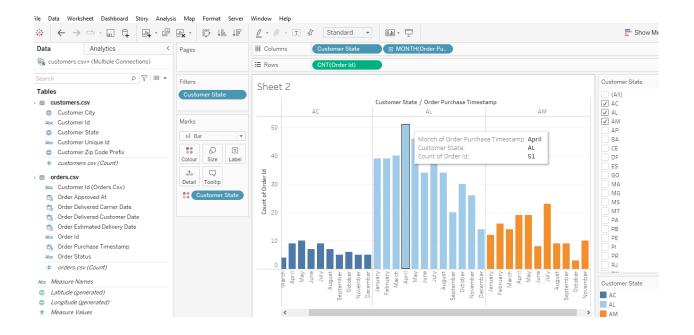
Get month on month orders by states

Outcomes:

- 1. The 9th month has lowest sales for 19 states out of 27 states
- 2. The 5th month has 9 states out of 27 states.
- 3. Maximum orders in 8th month irrespective of states

```
Query 1:
select main.*, dense_rank() over(partition by main.customer_state
order by main.month_orders) rnk
    from
      select temp.customer_state,temp.month, count(temp.month)
month_orders
      from
          select c.customer_state,o.order_id,
o.order_purchase_timestamp,
          extract(month from o.order_purchase_timestamp) month
          from `Target_Business_Case.customers` c
          left join `Target_Business_Case.orders` o on
o.customer_id=c.customer_id
      ) temp
      group by temp.customer_state, temp.month
      order by temp.customer_state, temp.month
    ) main
```

JOB IN	IFORMATION	RESULTS	JSON	EXI	ECUTION DETAILS	EXECUTION GRAP
low 3	customer_state •	. //	month ▼	11/1	month_orders ▼	rnk ▼
3	AL			11″	26 ′′	3
4	AL			10	30	4
5	AL			6	34	5
6	AL			8	34	5
7	AL			2	39	6
8	AL			1	39	6
9	AL			7	40	7
10	AL			3	40	7
11	AL			5	46	8
12	AL			4	51	9



Query 3:

```
-----count number of states with rank=1 i.e minimum number of order
IDs for that month-----
   select final.month, count(final.rnk) count_States_min_orders
   from
   ( select main.customer_state, main.month, main.order_id_count,
     dense_rank() over(partition by main.customer_state order by
main.order_id_count ) rnk
   from
        select temp.customer_state,temp.month, count(temp.order_id)
order id count
       from
            select c.customer_state,o.order_id,
o.order_purchase_timestamp,
           extract(month from o.order_purchase_timestamp) month
           from `Target_Business_Case.customers` c
            left join `Target_Business_Case.orders` o on
o.customer_id=c.customer_id
        ) temp
        group by temp.customer_state, temp.month
      ) main order by main.customer_state
   )final
   where final.rnk=1
   group by final.month
   order by count_States_min_orders
```

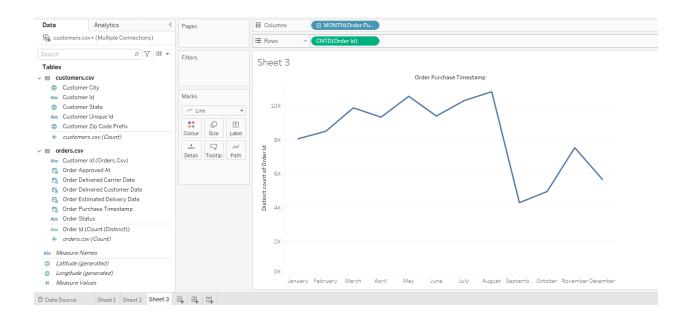
Quer	y results					
JOB IN	IFORMATION		RESULTS	JSON		EXEC
Row	month ▼	11	count_State	es_min_orders	• //	
1		11			1	
2		1			1	
3		3			1	
4		12			4	
5		10			5	
6		9			19	

-----count number of states with rank=1 i.e maximum number of order IDs for that month-----

The 5th month has 9 states out of 27 states.

y results					
FORMATION		RESULTS	JSON		EXEC
month ▼	1	count_States	s_max_orders	• /	
	6			1	
	1			1	
	4			2	
	8			4	
	3			6	
	7			7	
	5			9	
	y results IFORMATION month ▼	month ▼ 6 1 4 8 3 7	month Count_States 6 1 4 8 3 7	month ▼ count_States_max_orders 6 1 4 8 3 7	## RESULTS JSON month

Maximum Number of Sales in August/8th month irrespective of the states



Question 4:

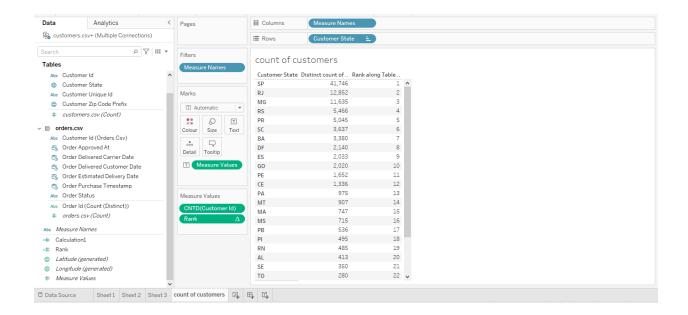
Distribution of customers across the states in Brazil

Solution:

Outcome: Maximum customers from customer_state SP and Minimum customers from customer_state RR

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```
----Distribution of customers across states in Brazil----
select customer_state, count(customer_id) number_of_customers
from `Target_Business_Case.customers`
group by customer_state
order by number_of_customers desc
```



Question 4:

Impact on Economy: Analyze the money movement by e-commerce by looking at order prices, freight and others.

- 1. Get % increase in cost of orders from 2017 to 2018 (include months between Jan to Aug only) You can use "payment_value" column in payments table
- 2. Mean & Sum of price and freight value by customer state

Solution:

Get % increase in cost of orders from 2017 to 2018 (include months between Jan to Aug only) - You can use "payment_value" column in payments table

<u>Outcome: 58% increase in the cost of orders from 2017 to 2018</u> <u>Click here for actionable insights</u> Querry:

```
select main.year, ((main.cost_of_orders-lag(main.cost_of_orders)
over(order by main.year ))/main.cost_of_orders)*100 percent_increase
from
(
select distinct(temp.year), sum(temp.payment_value) over(partition by
temp.year) cost_of_orders
from
```

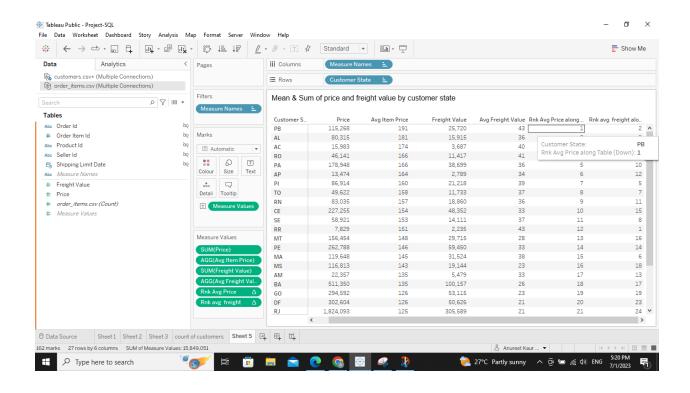
```
(
  select o.order_id, extract(year from o.order_purchase_timestamp)
year, extract(month from o.order_purchase_timestamp) month,
  p.payment_value
  from `Target_Business_Case.orders` o
  left join `Target_Business_Case.payments` p on o.order_id=p.order_id
  where extract(month from o.order_purchase_timestamp) between 1 and 8
and extract(year from o.order_purchase_timestamp)
  between 2017 and 2018
)temp
)main
    Query results
:
    JOB INFORMATION
i
:
         2017
     1
:
            2018 57.80178913446...
:
```

Mean & Sum of price and freight value by customer state

```
---Mean & Sum of price and freight value by customer state
select distinct(c.customer_state), round(avg(o_items.price),2)
mean_price,round(sum(o_items.price),2) total_price,
round(avg(o_items.freight_value),2)
mean_freight,round(sum(o_items.freight_value),2) total_freight
from `Target_Business_Case.order_items` o_items
left join `Target_Business_Case.orders` o on
o.order_id=o_items.order_id
left join `Target_Business_Case.customers` c on
c.customer_id=o.customer_id
group by c.customer_state
order by mean_price desc
```

Query results

1 PB 191.48 115268.08 42.72 25719.73 2 AL 180.89 80314.81 35.84 15914.59 3 AC 173.73 15982.95 40.07 3686.75 4 RO 165.97 46140.64 41.07 11417.38 5 PA 165.69 178947.81 35.83 38699.3 6 AP 164.32 13474.3 34.01 2788.5 7 PI 160.36 86914.08 39.15 21218.2 8 TO 157.53 49621.74 37.25 11732.68	JOB INFORMATION RESULTS		JSON EX	ECUTION DETAILS	EXECUTION GRAPH		
2 AL 180.89 80314.81 35.84 15914.59 3 AC 173.73 15982.95 40.07 3686.75 4 RO 165.97 46140.64 41.07 11417.38 5 PA 165.69 178947.81 35.83 38699.3 6 AP 164.32 13474.3 34.01 2788.5 7 PI 160.36 86914.08 39.15 21218.2 8 TO 157.53 49621.74 37.25 11732.68	Row	customer_state	· /	mean_price ▼	total_price ▼	mean_freight ▼	total_freight ▼
3 AC 173.73 15982.95 40.07 3686.75 4 RO 165.97 46140.64 41.07 11417.38 5 PA 165.69 178947.81 35.83 38699.3 6 AP 164.32 13474.3 34.01 2788.5 7 PI 160.36 86914.08 39.15 21218.2 8 TO 157.53 49621.74 37.25 11732.68	1	PB		191.48	115268.08	42.72	25719.73
4 RO 165.97 46140.64 41.07 11417.38 5 PA 165.69 178947.81 35.83 38699.3 6 AP 164.32 13474.3 34.01 2788.5 7 PI 160.36 86914.08 39.15 21218.2 8 TO 157.53 49621.74 37.25 11732.68	2	AL		180.89	80314.81	35.84	15914.59
5 PA 165.69 178947.81 35.83 38699.3 6 AP 164.32 13474.3 34.01 2788.5 7 PI 160.36 86914.08 39.15 21218.2 8 TO 157.53 49621.74 37.25 11732.68	3	AC		173.73	15982.95	40.07	3686.75
6 AP 164.32 13474.3 34.01 2788.5 7 PI 160.36 86914.08 39.15 21218.2 8 TO 157.53 49621.74 37.25 11732.68	4	RO		165.97	46140.64	41.07	11417.38
7 PI 160.36 86914.08 39.15 21218.2 8 TO 157.53 49621.74 37.25 11732.68	5	PA		165.69	178947.81	35.83	38699.3
8 TO 157.53 49621.74 37.25 11732.68	6	AP		164.32	13474.3	34.01	2788.5
	7	PI		160.36	86914.08	39.15	21218.2
	8	то		157.53	49621.74	37.25	11732.68
9 RN 156.97 83034.98 35.65 18860.1	9	RN		156.97	83034.98	35.65	18860.1



Question 5:

Analysis on sales, freight and delivery time

- 1. Calculate days between purchasing, delivering and estimated delivery
- 2. Find time_to_delivery & diff_estimated_delivery. Formula for the same given below:
 - o time_to_delivery = order_delivered_customer_date-order_purchase_timestamp
 - diff_estimated_delivery =
 order_estimated_delivery_date-order_delivered_customer_date
- Group data by state, take mean of freight_value, time_to_delivery, diff_estimated_delivery
- 4. Sort the data to get the following:
- 5. Top 5 states with highest/lowest average freight value sort in desc/asc limit 5
- 6. Top 5 states with highest/lowest average time to delivery
- 7. Top 5 states where delivery is really fast/ not so fast compared to estimated date

Solution:

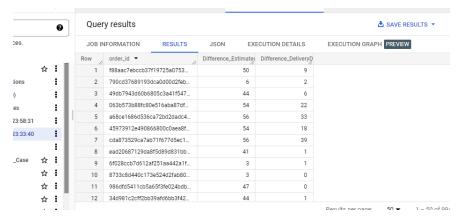
1. Calculate days between purchasing, delivering and estimated delivery

Outcome:

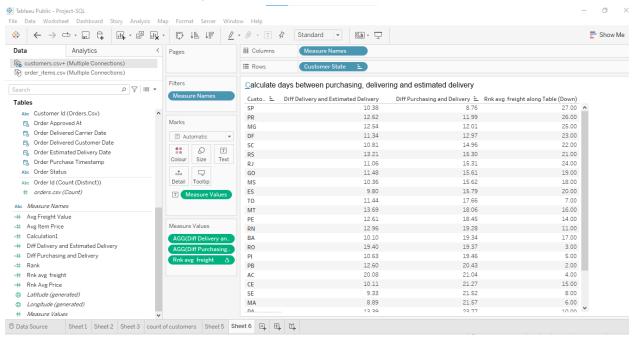
State SP has minimum delivery time and minimum average freight price State RR maximum avg freight price and shipping time maximum

Click here for actionable insight

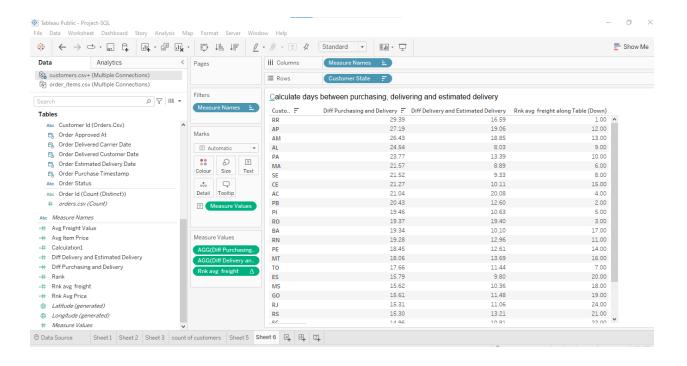
```
----Calculate days between purchasing, delivering and estimated delivery select order_id, date_diff(order_estimated_delivery_date,order_purchase_timestamp,day) Difference_EstimatedDeliveryDate_PurchaseDate, date_diff(order_delivered_carrier_date, order_purchase_timestamp,day) Difference_DeliveryDate_PurchaseDate from `Target_Business_Case.orders`
```



State SP has minimum delivery time and minimum avg freight price



State RR maximum avg freight price and shipping time maximum

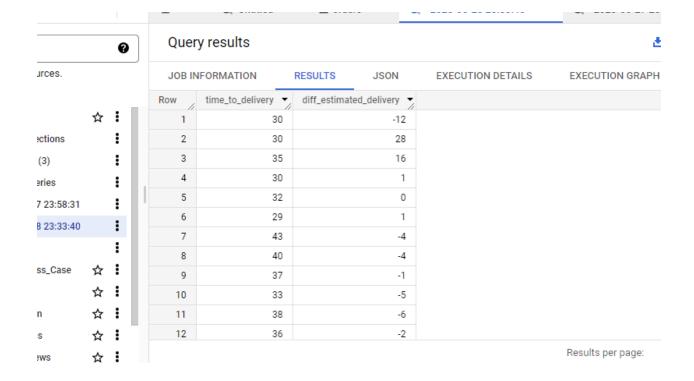


- 2. Find time_to_delivery & diff_estimated_delivery. Formula for the same given below:
 - o time_to_delivery = order_delivered_customer_date-order_purchase_timestamp
 - diff_estimated_delivery = order_estimated_delivery_date-order_delivered_customer_date

```
-----Find time_to_delivery & diff_estimated_delivery-----select
timestamp_diff(order_delivered_customer_date,order_purchase_timestamp,
```

day) time_to_delivery,
timestamp_diff(order_estimated_delivery_date,order_delivered_customer_

date,day) diff_estimated_delivery
from `Target_Business_Case.orders`



```
3. Group data by state, take mean of freight_value, time_to_delivery,
     diff_estimated_delivery
------Group data by state, take mean of freight_value,
time_to_delivery, diff_estimated_delivery------
select temp.customer_state, round(avg(temp.freight_value),2)
mean_freight_value,
round(avg(temp.time_to_delivery),2) mean_time_to_delivery,
round(avg(temp.diff_estimated_delivery),2)
mean_diff_estimated_delivery
from
(
select
o.order_id, timestamp_diff(o.order_delivered_customer_date, o.order_purc
hase_timestamp,day) time_to_delivery,
timestamp_diff(o.order_estimated_delivery_date,o.order_delivered_custo
mer_date,day) diff_estimated_delivery ,
c.customer_state, t.freight_value
```

```
from `Target_Business_Case.orders` as o
left join `Target_Business_Case.customers` c on
c.customer_id=o.customer_id
left join `Target_Business_Case.order_items` t on
o.order_id=t.order_id
) temp
group by temp.customer_state
```

4. Sort the data to get the following:

select

Top 5 states with highest/lowest average freight value - sort in desc/asc limit 5
 SP state has lowest avg freight_value and RR state has highest avg freight_value

```
c.customer_state, round(avg(t.freight_value),2) avg_freight_value
from `Target_Business_Case.orders` as o
left join `Target_Business_Case.customers` c on
c.customer_id=o.customer_id
left join `Target_Business_Case.order_items` t on
o.order_id=t.order_id
group by c.customer_state
order by avg_freight_value
limit 5
```



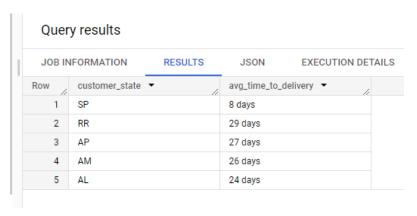
```
---Top 5 states with highest average freight value ------
select
c.customer_state, round(avg(t.freight_value),2) avg_freight_value
from `Target_Business_Case.orders` as o
left join `Target_Business_Case.customers` c on
c.customer_id=o.customer_id
```

```
left join `Target_Business_Case.order_items` t on
o.order_id=t.order_id
group by c.customer_state
order by avg_freight_value desc
limit 5
       Query results
       JOB INFORMATION
                            RESULTS
                                         JSON
                                                    EXECL
             customer_state ▼
                                       avg_freight_value <
                                                42.98
             PB
                                                42.72
             RO
                                                41.07
             AC
                                                40.07
         5
             ы
                                                39.15
```

Top 5 states with highest/lowest average time to delivery

SP state has highest avg time to delivery, MG has least avg time to delivery

```
-----Top 5 states with highest/lowest average time to delivery---
--highest average time to delivery---
select c.customer_state,
concat(round(avg(timestamp_diff(o.order_delivered_customer_date,o.orde
r_purchase_timestamp,day))),' days') avg_time_to_delivery
from `Target_Business_Case.orders` as o
left join `Target_Business_Case.customers` c on
c.customer_id=o.customer_id
group by c.customer_state
order by avg_time_to_delivery desc
limit 5
```



```
--lowest average time to delivery---
select c.customer_state,
concat(round(avg(timestamp_diff(o.order_delivered_customer_date,o.orde
r_purchase_timestamp,day))),' days') avg_time_to_delivery
from `Target_Business_Case.orders` as o
left join `Target_Business_Case.customers` c on
c.customer_id=o.customer_id
group by c.customer_state
order by avg_time_to_delivery
limit 5
```

	Quer	y results			
	JOB IN	IFORMATION	RESULTS	JSON E	XECUTION DETAIL:
١	Row	customer_state	-	avg_time_to_deliver	y -
	1	MG		12 days	
	2	PR		12 days	
	3	DF		13 days	
	4	SC		14 days	
	5	RJ		15 days	

5. Top 5 states where delivery is really fast/ not so fast compared to estimated date SP highest time to deliver with more estimated delivery time

```
select temp.customer_state, temp.time_to_delivery,
temp.diff_estimated_delivery
from
select
o.order_id, concat(timestamp_diff(o.order_delivered_customer_date, o.ord
er_purchase_timestamp,day),'days') time_to_delivery,
concat(timestamp_diff(o.order_estimated_delivery_date,o.order_delivere
d_customer_date,day),'days') diff_estimated_delivery ,
c.customer_state
from `Target_Business_Case.orders` as o
left join `Target_Business_Case.customers` c on
c.customer_id=o.customer_id
) temp
where temp.time_to_delivery< temp.diff_estimated_delivery</pre>
order by temp.time_to_delivery desc
limit 5
```

JOB IN	IFORMATION	RESULTS	JSON	EXECUTION DET	TAILS	EXECUTION GRAPH	PREVIEW
Row	customer_state	· //	time_to_delivery	▼	diff_estima	ted_delivery ▼	;
1	SP		8days		9days		
2	SP		8days		9days		
3	RJ		8days		9days		
4	SP		8days		9days		
5	SP		8days		9days		

6. Payment type analysis:

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1. Month over Month count of orders for different payment types

----Month over Month count of orders for different payment types

SELECT DISTINCT p.payment_type, EXTRACT(MONTH FROM

o.order_purchase_timestamp) month,

COUNT(p.payment_type) OVER (PARTITION BY p.payment_type,

EXTRACT(MONTH FROM o.order_purchase_timestamp) ORDER BY EXTRACT(MONTH FROM o.order_purchase_timestamp)) AS mom_count
FROM `Target_Business_Case.orders` o

LEFT JOIN `Target_Business_Case.payments` p ON p.order_id = o.order_id order by p.payment_type, month

Quer	y results					
JOB IN	IFORMATION	RESULTS	JSON	EXI	ECUTION DETAILS	E
Row	payment_type 🔻	//	month ▼	1	mom_count ▼	
1	null			9	0	
2	UPI			1	1715	
3	UPI			2	1723	
4	UPI			3	1942	
5	UPI			4	1783	
6	UPI			5	2035	
7	UPI			6	1807	
8	UPI			7	2074	
9	UPI			8	2077	
10	UPI			9	903	
11	UPI			10	1056	
12	UPI			11	1509	

2. Count of orders based on the no. of payment installments

Outcome:

maximum orders (count 52546) with payment installments =1 minimum orders (count 1) with payment installments =22 & 23 More the installments lesser is the number of orders

----Count of orders based on the no. of payment installments-----select distinct payment_installments, count(order_id) count

from `Target_Business_Case.payments` group by payment_installments order by payment_installments

JOB IN	IFORMATION	RESULTS	JSO	N
Row /	payment_installm	ent cnt ▼	- //	
1	C)	2	
2	1		52546	
3	2	2	12413	
4	3	3	10461	
5	4	1	7098	
6	5	5	5239	
7	6	i i	3920	
8	7	7	1626	
9	8	3	4268	
10	g)	644	
11	10)	5328	