

Problem Statement

Explore Retail Giant's dataset to find insights about the business.

1) Initial exploration of the dataset like checking the characteristics of the data

A. The column and data type in each table were checked.

a. Customer Table

customers

QUERY SHARE COPY SNAPSHOT DELETE EXPORT

SCHEMA DETAILS PREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Default Value	Policy Tags	Description
customer_id	STRING	NULLABLE				
customer_unique_id	STRING	NULLABLE				
customer_zip_code_prefix	INTEGER	NULLABLE				
customer_city	STRING	NULLABLE				
customer_state	STRING	NULLABLE				

There are 5 columns namely customer_id, customer_inique_id, customer_zip_code_prefix, customer_city and customer_state

b. Geolocation table

geolocation

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SCHEMA DETAILS PREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Default Value	Policy Tags	Description
geolocation_zip_code_prefix	INTEGER	NULLABLE				
geolocation_lat	FLOAT	NULLABLE				
geolocation_lng	FLOAT	NULLABLE				
geolocation_city	STRING	NULLABLE				
geolocation_state	STRING	NULLABLE				

c. Order_Items

order_items

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SCHEMA DETAILS PREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Default Value	Policy Tags	Description
order_id	STRING	NULLABLE				
order_item_id	INTEGER	NULLABLE				
product_id	STRING	NULLABLE				
seller_id	STRING	NULLABLE				
shipping_limit_date	TIMESTAMP	NULLABLE				
price	FLOAT	NULLABLE				
freight_value	FLOAT	NULLABLE				

There are 7 columns namely order_id, order_item_id, product_id, seller_id, shipping_limit_date, price, and freight_value

d. Order_reviews

order_reviews

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SCHEMA DETAILS PREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Default Value	Policy Tags	Description
review_id	STRING	NULLABLE				
order_id	STRING	NULLABLE				
review_score	INTEGER	NULLABLE				
review_comment_title	STRING	NULLABLE				
review_creation_date	TIMESTAMP	NULLABLE				
review_answer_timestamp	TIMESTAMP	NULLABLE				

There are 6 columns namely review_id, order_id, review_score, review_comment_title, review_creation_date and review_answer_timestamp

e. Orders

orders

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SCHEMADETAILSPREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Default Value	Policy Tags	Description
order_id	STRING	NULLABLE				
customer_id	STRING	NULLABLE				
order_status	STRING	NULLABLE				
order_purchase_timestamp	TIMESTAMP	NULLABLE				
order_approved_at	TIMESTAMP	NULLABLE				
order_delivered_carrier_date	TIMESTAMP	NULLABLE				
order_delivered_customer_date	TIMESTAMP	NULLABLE				
order_estimated_delivery_date	TIMESTAMP	NULLABLE				

There are 8 columns namely order_id, customer_id, order_status, order_purchase_timestamp, ofer_approved_at, order_delivered_carrier_date, order_delivered_customer_date and order_estimated_delivery_date

f. Payments

payments

QUERY SHARE COPY SNAPSHOT DELETE EXPORT

SCHEMADETAILSPREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Default Value	Policy Tags	Description
order_id	STRING	NULLABLE				
payment_sequential	INTEGER	NULLABLE				
payment_type	STRING	NULLABLE				
payment_installments	INTEGER	NULLABLE				
payment_value	FLOAT	NULLABLE				

There are 5 columns namely order_id, paymenet_sequential, payment_tupe, payment_installments and payment_value

g. products

products

QUERY SHARE COPY SNAPSHOT DELETE EXPORT

SCHEMADETAILSPREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Default Value	Policy Tags	Description
product_id	STRING	NULLABLE				
product_category	STRING	NULLABLE				
product_name_length	INTEGER	NULLABLE				
product_description_length	INTEGER	NULLABLE				
product_photos_qty	INTEGER	NULLABLE				
product_weight_g	INTEGER	NULLABLE				
product_length_cm	INTEGER	NULLABLE				
product_height_cm	INTEGER	NULLABLE				
product_width_cm	INTEGER	NULLABLE				

There are 9 columns namely product_id, product_category, product_name_length, procut_description_length, product_photos_qty, product_weight_g, proconduct_length_cum, product_height_cum, and product_width_cum.

h. sellers

📄 sellers 🔍 QUERY ▾ ➦ SHARE 📄 COPY 📄 SNAPSHOT 🗑 DELETE 📄 EXPORT ▾

SCHEMA DETAILS PREVIEW

🔍 Filter Enter property name or value

<input type="checkbox"/>	Field name	Type	Mode	Collation	Default Value	Policy Tags	Description
<input type="checkbox"/>	seller_id	STRING	NULLABLE				
<input type="checkbox"/>	seller_zip_code_prefix	INTEGER	NULLABLE				
<input type="checkbox"/>	seller_city	STRING	NULLABLE				
<input type="checkbox"/>	seller_state	STRING	NULLABLE				

There are 5 columns namely seller_id, seller_zip_code_prefix, seller_city, and seller_state

B. Time period for which the data is given

🏃 RUN 📄 SAVE ➦ SHARE 🕒 SCHEDULE ⚙ MORE ▾

```

1 SELECT max(order_purchase_timestamp) as max_time,min(order_purchase_timestamp) as min_time
2
3 FROM "target-sql-359310.Target_Dataset.orders"

```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	max_time	min_time		
1	2018-10-17 17:30:18 UTC	2016-09-04 21:15:19 UTC		

This data is given for the time period from 2016-09-04 21:15:19 UTC to 2018-10-17 17:30:18 UTC

C. Cities and States covered in the dataset

Cities

🏃 RUN 🟢 Query completed.

```

1 SELECT distinct(customer_city) FROM "target-sql-359310.Target_Dataset.customers"

```

Press Alt+F1 for Accessibility Options.

Query results 📄 SAVE RESULTS 📊 EXPLORE DATA ↕

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	customer_city			
1	acu			
2	ico			
3	ipe			
4	ipu			
5	ita			
6	itu			
7	jau			
8	luz			
9	poa			
10	uba			

Results per page: 10 ▾ 1 - 10 of 4119 |< < > >|

Total 4119 cities have been identified from where Retail Giant Services

States

Query completed.

```
1 SELECT distinct(customer_state) FROM `target-sql-359310.Target_Dataset.customers`
```

Press Alt+F1 for Accessibility Options.

Query results

SAVE RESULTS EXPLORE DATA

JOB INFORMATION	RESULTS	JSON	EXECUTION DETAILS
Row	customer_state		
1	RN		
2	CE		
3	RS		
4	SC		
5	SP		
6	MG		
7	BA		
8	RJ		
9	GO		
10	MA		

A total of 27 States was identified where Retail Giant Services

2) In-depth Exploration

A. Monthwise order flow (seasonality)

Query results

SAVE SHARE SCHEDULE MORE

```
1 Select Month,no_order
2 from(
3 select EXTRACT(month FROM order_purchase_timestamp) AS Month, count(order_id) as no_order
4 from `target-sql-359310.Target_Dataset.orders`
5 group by EXTRACT(month FROM order_purchase_timestamp)
6 )x
7 order by x.Month
```

JOB INFORMATION	RESULTS	JSON	EXECUTION DETAILS
Row	Month	no_order	
1	1	8069	
2	2	8508	
3	3	9893	
4	4	9343	
5	5	10573	
6	6	9412	
7	7	10318	
8	8	10843	
9	9	4305	
10	10	4959	
11	11	7544	
12	12	5674	

The number of orders increases gradually from the start of the year and peaks during the months from May-Aug. After that number of orders reduces.

B. Time at which Brazil people tend to buy

```

11 select TimeOfDay, count(TimeOfDay)
12
13 from(
14 select case
15 when Hour>=0 and Hour<6 Then 'Dawn'
16 when Hour>=6 and Hour<12 Then 'Morning'
17 when Hour>=12 and Hour<19 Then 'Afternoon'
18 when Hour>=19 and Hour<=23 Then 'Night'
19 END AS TimeOfDay
20 from(
21 select EXTRACT(hour FROM order_purchase_timestamp) AS Hour
22 from 'target-sql-359310.Target_Dataset.orders'
23 )x
24 )y
25 group by y.TimeOfDay
26
27
28

```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	TimeOfDay	count		
1	Morning	22240		
2	Dawn	4740		
3	Afternoon	44130		
4	Night	28331		

- More people tend to buy during the afternoon session (maybe during lunchtime) and followed by the morning time.
- During Dawn least people make the purchases

3) Evolution of E-commerce orders in the Brazil region

A. Get month-on-month orders by region, states

```

1 select year, month, state, count(order_id) as number_orders
2
3
4
5 from(
6 select order_id, extract(month FROM o.order_purchase_timestamp) as month, extract(year FROM o.order_purchase_timestamp) as year, g.geolocation_state as state
7 from 'target-sql-359310.Target_Dataset.orders' o
8
9 left join 'target-sql-359310.Target_Dataset.customers' c on c.customer_id=o.customer_id
10
11 left join 'target-sql-359310.Target_Dataset.geolocation' g on g.geolocation_zip_code_prefix=c.customer_zip_code_prefix
12
13 )x
14
15 group by x.year, x.month, x.state
16
17 order by x.year, x.month, count(order_id) Desc
18

```

Query completed.

Query results

SAVE RESULTS EXPLORE DATA

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	year	month	state	number_ord.
1	2016	9	SP	492
2	2016	9	RS	103
3	2016	9	RR	65
4	2016	10	SP	16277
5	2016	10	RJ	12416

Results per page: 200 1 - 200 of 584

B. How are customers distributed in Brazil

21	select g.geolocation_state as state, count(customer_id)
22	from "target-sql-359310.Target_Dataset.customers" c
23	left join "target-sql-359310.Target_Dataset.geolocation" g on g.geolocation_zip_code_prefix=c.customer_zip_code_prefix
24	group by g.geolocation_state
25	order by count(customer_id) Desc
26	
27	
28	
29	
30	
31	

Query results

JOB INFORMATION	RESULTS	JSON	EXECUTION DETAILS
Row	state	count	
1	SP	5620430	
2	RJ	3515690	
3	MG	2579728	
4	RS	805370	
5	PR	626021	
6	SC	538638	
7	BA	365875	
8	ES	316654	
9	GO	133146	

Results per page: 10 1 - 10 of 28

More customer are from SP, RJ and MG.

4) Impact on Economy

- A. Get a % increase in the cost of orders from 2017 to 2018 (include months between Jan to Aug only)

```
1 select year, month, total_price, (total_price-last_year_price)/last_year_price as percentage_increase
2
3 from(
4 select year, month, total_price, lag(total_price,1) over (partition by month order by month, year) as last_year_price
5
6 from(
7 select sum(price) as total_price, Month, Year,
8
9 from(
10
11 SELECT oi.price, EXTRACT(month FROM o.order_purchase_timestamp) AS Month, EXTRACT(year FROM o.order_purchase_timestamp) AS Year
12
13 FROM "target-sql-359310.Target_Dataset.order_items" oi
14
15 join "target-sql-359310.Target_Dataset.orders" o on o.order_id=oi.order_id
16
17 ) x
18
19 group by x.Month, x.Year
20
21 Having Month in (1,2,3,4,5,6,7,8)
22
23 Order by x.Month, x.Year
24
25 )y
26 )z
27
28
```

Query results

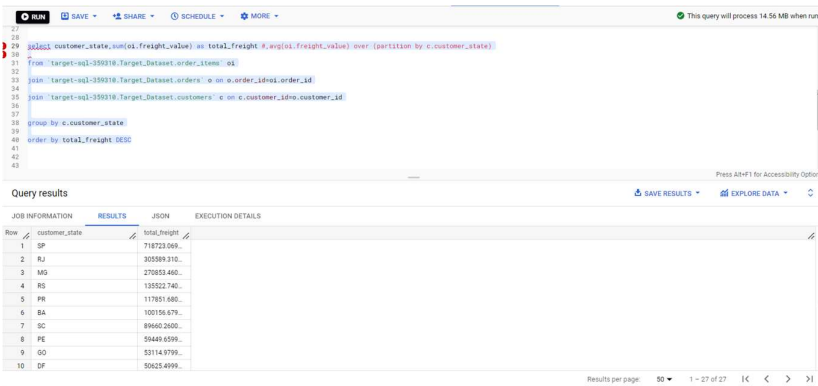
JOB INFORMATION			RESULTS	JSON	EXECUTION DETAILS
Row	year	month	total_price	percentage_1	
1	2017	6	433038.600...	null	
2	2018	6	865124.310...	0.99779952...	
3	2017	2	247303.019...	null	
4	2018	2	844178.710...	2.41353983...	
5	2017	7	498031.480...	null	
6	2018	7	895507.220...	0.79809360...	
7	2017	5	506071.140...	null	
8	2018	5	996517.680...	0.96912568...	
9	2017	3	374344.300...	null	
10	2018	3	983213.440...	1.62649502...	
11	2017	4	359927.230...	null	
12	2018	4	996647.750...	1.76902570...	
13	2017	1	120312.869...	null	
14	2018	1	950030.360...	6.89633195...	
15	2017	8	573971.680...	null	
16	2018	8	854686.330...	0.48907404...	

Month on month increase in the total value of sales was found. The maximum increase happened in the month of Jan2017 to Jan2018. Sales almost became 7 times.

This is followed by Feb2017 to Feb2018 with the sale going up more than 2.4 times.

B. Mean & Sum of price and freight value by customer state

a. Sum

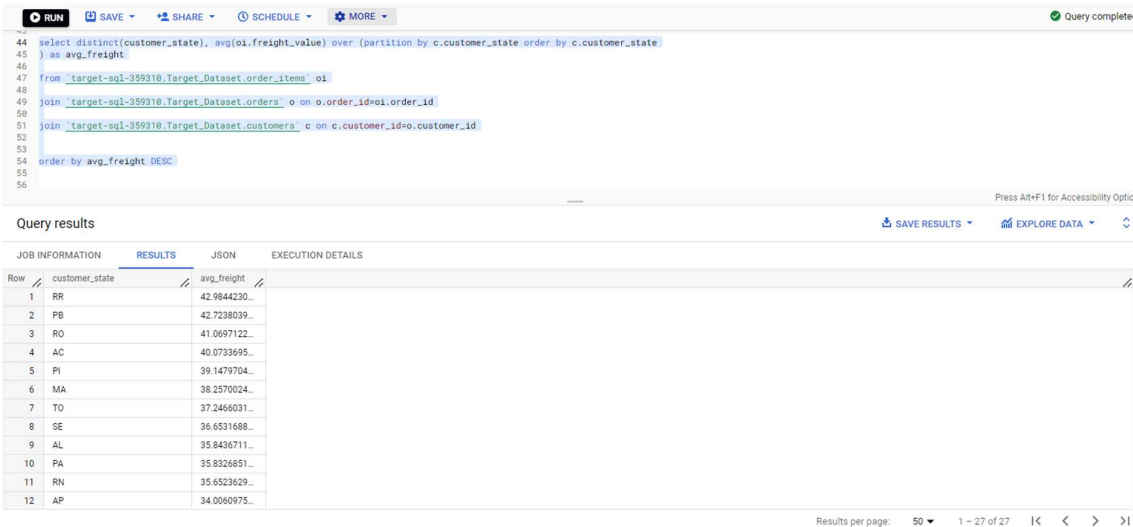


```
select customer_state, sum(oi.freight_value) as total_freight, avg(oi.freight_value) over (partition by c.customer_state)
from 'target-sql-359310.Target_Dataset.orders' o on o.order_id=oi.order_id
join 'target-sql-359310.Target_Dataset.items' oi on o.order_id=oi.order_id
join 'target-sql-359310.Target_Dataset.customers' c on c.customer_id=o.customer_id
group by c.customer_state
order by total_freight DESC
```

customer_state	total_freight
SP	718732.946
RJ	305589.310
MG	270853.460
RS	135522.740
PR	117851.680
BA	100156.679
SC	89680.3000
PE	56449.6599
GO	53114.9799
DF	50625.4999

The freight charges are more being paid by the people in the cities SP and RJ. This may be because of the long delivery distance to these cities from sellers.

b. Mean



```
select distinct(customer_state), avg(oi.freight_value) over (partition by c.customer_state order by c.customer_state)
as avg_freight
from 'target-sql-359310.Target_Dataset.order_items' oi
join 'target-sql-359310.Target_Dataset.orders' o on o.order_id=oi.order_id
join 'target-sql-359310.Target_Dataset.customers' c on c.customer_id=o.customer_id
order by avg_freight DESC
```

customer_state	avg_freight
RR	42.9844230...
PB	42.7238039...
RO	41.0697122...
AC	40.0733695...
PI	39.1479704...
MA	38.2570024...
TO	37.2466031...
SE	36.6531688...
AL	35.8436711...
PA	35.8326851...
RN	35.6523629...
AP	34.0060975...

On average, the delivery charges per order remain the same for all cities with RR and PB coming on the top with 42.98 and 42.72 per order respectively.

5) Analysis of sales, freight, and delivery time

```
1 #freight_value
2
3 SELECT avg(o.order_delivered_customer_date-o.order_purchase_timestamp) as time_to_delivery, avg(o.order_estimated_delivery_date-o.order_purchase_timestamp) as freight_value, c.customer_state
4 FROM "target-sql-359310.Target_Dataset.orders" o
5 JOIN "target-sql-359310.Target_Dataset.order_items" oi on o.order_id=oi.order_id
6 JOIN "target-sql-359310.Target_Dataset.customers" c on o.customer_id=c.customer_id
7 group by customer_state
8 order by freight_value Desc
9 Limit 5
```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS	
Row	time_to_delivery	diff_estimated_delivery	freight_value	customer_state	
1	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	GO	
2	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	PI	
3	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	ES	
4	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	MA	
5	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	RS	

Top 5 states with the highest freight rate is GO, PI, ES, MA, RS

```
18 SELECT avg(o.order_delivered_customer_date-o.order_purchase_timestamp) as time_to_delivery, avg(o.order_estimated_delivery_date-o.order_delivered_customer_date) as diff_estimated_delivery, avg(oi.freight_value) as freight_value, c.customer_state
19 FROM "target-sql-359310.Target_Dataset.orders" o
20 JOIN "target-sql-359310.Target_Dataset.order_items" oi on o.order_id=oi.order_id
21 JOIN "target-sql-359310.Target_Dataset.customers" c on o.customer_id=c.customer_id
22 group by customer_state
23 order by freight_value
24 Limit 5
```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS	
Row	time_to_delivery	diff_estimated_delivery	freight_value	customer_state	
1	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	RJ	
2	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	RS	
3	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	MG	
4	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	MT	
5	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	SE	

Top 5 states with the Lowest freight rate is RJ, RS, MG, MT, SE

```
#time_to_delivery
SELECT avg(o.order_delivered_customer_date-o.order_purchase_timestamp) as time_to_delivery, avg(o.order_estimated_delivery_date-o.order_delivered_customer_date) as diff_estimated_delivery, avg(oi.freight_value) as freight_value, c.customer_state
FROM "target-sql-359310.Target_Dataset.orders" o
JOIN "target-sql-359310.Target_Dataset.order_items" oi on o.order_id=oi.order_id
JOIN "target-sql-359310.Target_Dataset.customers" c on o.customer_id=c.customer_id
group by customer_state
order by time_to_delivery DESC
Limit 5
```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS	
Row	time_to_delivery	diff_estimated_delivery	freight_value	customer_state	
1	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	RN	
2	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	SP	
3	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	MG	
4	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	RO	
5	0-0 0 299:20:35.278167991	0-0 0 271:59:44.110657374	19.9903199...	RS	

Average Delivery time is highest in states RN, SP, MG, RO and RS


```

SELECT avg(o.order_delivered_customer_date-o.order_purchase_timestamp) as time_to_delivery,avg(o.order_estimated_delivery_date-o.order_delivered_customer_date) as diff_estimated_delivery,avg(o1.freight_value) as freight_value,c.customer_state
FROM "target-sql-359310.Target_Dataset.orders" o
JOIN "target-sql-359310.Target_Dataset.order_items" oi on o.order_id=oi.order_id
JOIN "target-sql-359310.Target_Dataset.customers" c on o.customer_id=c.customer_id
group by customer_state
order by time_to_delivery
LIMIT 5

```

very results [SAVE RESULTS](#) [EXPLORE DATA](#)

time_to_delivery	diff_estimated_delivery	freight_value	customer_state
0-0 0 299 20 35 276167991	0-0 0 271 59 44 110657374	19 9903199	PR
0-0 0 299 20 35 276167991	0-0 0 271 59 44 110657374	19 9903199	CE
0-0 0 299 20 35 276167991	0-0 0 271 59 44 110657374	19 9903199	SP
0-0 0 299 20 35 276167991	0-0 0 271 59 44 110657374	19 9903199	RJ
0-0 0 299 20 35 276167991	0-0 0 271 59 44 110657374	19 9903199	RS

Average Delivery time is lowest in states PR, CE, SP, RJ and RS

```

diff_estimated_delivery
select time_to_delivery=diff_estimated_delivery as diff_estimated_delivery, customer_state
from(
SELECT avg(o.order_delivered_customer_date-o.order_purchase_timestamp) as time_to_delivery,avg(o.order_estimated_delivery_date-o.order_delivered_customer_date) as diff_estimated_delivery,avg(o1.freight_value) as freight_value,c.customer_state
FROM "target-sql-359310.Target_Dataset.orders" o
JOIN "target-sql-359310.Target_Dataset.order_items" oi on o.order_id=oi.order_id
JOIN "target-sql-359310.Target_Dataset.customers" c on o.customer_id=c.customer_id
group by customer_state
)
order by diff_estimated_delivery DESC
LIMIT 5

```

very results [SAVE RESULTS](#) [EXPLORE DATA](#)

diff_estimated_delivery	customer_state
0-0 0 27 20 51 167510617	RS
0-0 0 27 20 51 167510617	SC
0-0 0 27 20 51 167510617	SP
0-0 0 27 20 51 167510617	PR
0-0 0 27 20 51 167510617	MG

Average Estimated Delivery time is highest in states RS, SC, SP, PR and MG

```

87 select time_to_delivery=diff_estimated_delivery as diff_estimated_delivery, customer_state
88 from(
89 SELECT avg(o.order_delivered_customer_date-o.order_purchase_timestamp) as time_to_delivery,avg(o.order_estimated_delivery_date-o.order_delivered_customer_date) as diff_estimated_delivery,avg(o1.freight_value) as freight_value,c.customer_state
90 FROM "target-sql-359310.Target_Dataset.orders" o
91 JOIN "target-sql-359310.Target_Dataset.order_items" oi on o.order_id=oi.order_id
92 JOIN "target-sql-359310.Target_Dataset.customers" c on o.customer_id=c.customer_id
93 group by customer_state
94 )
95 order by diff_estimated_delivery
96 LIMIT 5

```

Query results [SAVE RESULTS](#) [EXPLORE DATA](#)

diff_estimated_delivery	customer_state
0-0 0 27 20 51 167510617	MG
0-0 0 27 20 51 167510617	SP
0-0 0 27 20 51 167510617	RS
0-0 0 27 20 51 167510617	RJ
0-0 0 27 20 51 167510617	GO

Average Estimated Delivery time is lowest in states MG, SP, RS, RJ, GO

6) Payment type analysis

```
1 select count(o.order_id),p.payment_type
2
3 from `target-sql-359310.Target_Dataset.orders` o
4
5 join `target-sql-359310.Target_Dataset.payments` p on p.order_id=o.order_id
6
7 group by p.payment_type
```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	f0_	payment_type		
1	76795	credit_card		
2	5775	voucher		
3	3	not_defined		
4	1529	debit_card		
5	19784	UPI		

More people are using the credit card for transactions followed by UPI.

```
8
9
10 select distinct(payment_type), no_installment
11
12 from(
13
14 select sum(p.payment_installments) over (partition by p.payment_type) as no_installment,p.payment_type
15
16 from `target-sql-359310.Target_Dataset.payments` p
17
18 )x
19
20 order by no_installment DESC
21
```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	payment_type	no_installment		
1	credit_card	269332		
2	UPI	19784		
3	voucher	5775		
4	debit_card	1529		
5	not_defined	3		

More people are taking instalments in credit card followed by UPI.

22

23

24

25

26

27

28

29

30

31

32

33

```

select distinct(payment_type), Month, Year, count(payment_type) over (partition by payment_type,Month,Year)
from(
select EXTRACT(month FROM o.order_purchase_timestamp) AS Month, p.payment_type,EXTRACT(year FROM o.order_purchase_timestamp) AS Year
from 'target-sql-359310.Target_Dataset.payments' p
join 'target-sql-359310.Target_Dataset.orders' o on o.order_id=p.order_id
)x
order by Year, Month

```

Press Alt+F1 for Accessibility Options.

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

Row	payment_type	Month	Year	count
1	credit_card	9	2016	3
2	voucher	10	2016	23
3	debit_card	10	2016	2
4	credit_card	10	2016	254
5	UPI	10	2016	63
6	credit_card	12	2016	1
7	UPI	1	2017	197
8	credit_card	1	2017	583
9	voucher	1	2017	61
10	debit_card	1	2017	9
11	credit_card	2	2017	1356
12	UPI	2	2017	398
13	debit_card	2	2017	13

Results per page: 50 1 - 50 of 90

This query was used to find the month on month payment type preferred by the customers