Target Project

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

SELECT * FROM `Target.customers`

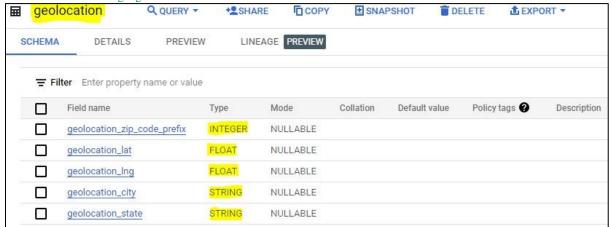


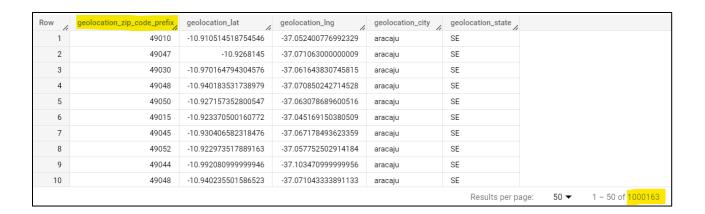


orde	r_items	Q QUERY -	+2 SHARE	COPY	■ SNAPSHOT	DELETE	≜ EXPORT ▼
СНЕМА	DETAILS	PREVIEW	LINEAGE	PREVIEW			
₹ Fil	ter Enter property	name or value					
	Field name	Type	Mode	Collatio	on Default value	Policy tags	Description
	order_id	STRING	NULLABI	LE			
	order_item_id	INTEGER	NULLABI	LE			
	product_id	STRING	NULLABI	LE			
	seller_id	STRING	NULLABI	LE			
	shipping_limit_dat	e TIMESTAME	NULLABI	- E			

Row	order_id	order_item_id //	product_id	h	seller_id	11	shipping_limit_date	price	freight_value
1	f09e36e258656850b926	1	44d53f1240d6	5332232	b64d51f043	5e884e8d	2018-07-09 13:31:36 UTC	3.0	12.79
2	f9ccaff7267fd0cf076e7	1	44d53f1240d6	5332232	b64d51f043	5e884e8d	2018-08-14 14:04:44 UTC	3.0	15.23
3	c79bdf061e2228860920	1	5304ff3fa358	56a156e	cf6f6bc4df3	999b9c64	2017-05-12 19:05:20 UTC	3.5	8.72
4	37193e64eb9a46b7f319	1	98224bfc1eaa	db3a394	ce616e1913	288884e7	2018-06-28 01:30:49 UTC	3.5	7.39
5	95d6357ffe41aa6d2998	1	98224bfc1eaa	db3a394	ce616e1913	288884e7	2018-06-12 19:15:14 UTC	3.5	18.23
6	95d6357ffe41aa6d2998	2	98224bfc1eaa	db3a394	ce616e1913	288884e7	2018-06-12 19:15:14 UTC	3.5	18.23
7	95d6357ffe41aa6d2998	3	98224bfc1eaa	db3a394	ce616e1913	288884e7	2018-06-12 19:15:14 UTC	3.5	18.23
8	95d6357ffe41aa6d2998	4	98224bfc1eaa	db3a394	ce616e1913	288884e7	2018-06-12 19:15:14 UTC	3.5	18.23
9	95d6357ffe41aa6d2998	5	98224bfc1eaa	db3a394	ce616e1913	288884e7	2018-06-12 19:15:14 UTC	3.5	18.23
10	dde867f83e689b016778	1	914323edd50	192310d	2c9e548be1	8521d1c4	2017-10-20 14:50:12 UTC	4.5	11.85
	Results per page: 50 ▼ 1 - 50 of 112650								

SELECT * FROM `Target.geolocation`



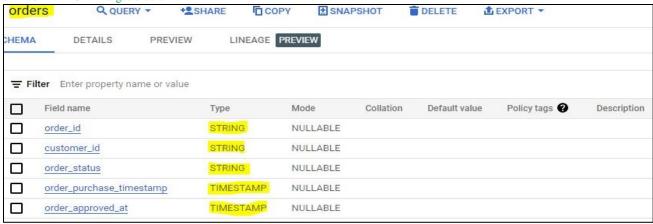


SELECT * FROM `Target.order_reviews`





SELECT * FROM `Target.orders`



Row /	order_id	customer_id	order_status	order_purchase_timestamp	order_approved_at	order_delivered_carrier_date	order_delivered_custor	order_estimated_delivery_da
1	7a4df5d8cff40	725e9c756054	created	2017-11-25 11:10:33 UTC	null	null	null	2017-12-12 00:00:00 UTC
2	35de4050331c	4ee64f4bfc542	created	2017-12-05 01:07:58 UTC	null	null	null	2018-01-08 00:00:00 UTC
3	b5359909123f	438449d4af89	created	2017-12-05 01:07:52 UTC	null	null	null	2018-01-11 00:00:00 UTC
4	dba5062fbda3	964a6df3d9bdf	created	2018-02-09 17:21:04 UTC	null	null	null	2018-03-07 00:00:00 UTC
5	90ab3e7d5254	7d61b9f4f2160	created	2017-11-06 13:12:34 UTC	null	null	null	2017-12-01 00:00:00 UTC
6	fa65dad1b0e8	9af2372a1e49	shipped	2017-04-20 12:45:34 UTC	2017-04-22 09:1	2017-04-24 11:31:17 UTC	null	2017-05-18 00:00:00 UTC
7	1df2775799ee	1240c2e65c46	shipped	2017-07-13 11:03:05 UTC	2017-07-13 11:1	2017-07-18 18:17:30 UTC	null	2017-08-14 00:00:00 UTC
8	6190a94657e1	5fc4c97dcb639	shipped	2017-07-11 13:36:30 UTC	2017-07-11 13:4	2017-07-13 17:55:46 UTC	null	2017-08-14 00:00:00 UTC
9	58ce513a55c7	530d41b47b9d	shipped	2017-07-29 18:05:07 UTC	2017-07-29 18:1	2017-07-31 16:41:59 UTC	null	2017-08-14 00:00:00 UTC
10	088683f795a3	58d89fd1f8638	shipped	2017-07-13 10:02:47 UTC	2017-07-14 02:2	2017-07-20 20:02:58 UTC	null	2017-08-14 00:00:00 UTC

SELECT * FROM `Target.payments`



Row /	order_id //	payment_sequential //	payment_type	payment_installments //	payment_value
1	1a57108394169c0b47d8f876acc9ba2d	2	credit_card	0	129.94
2	744bade1fcf9ff3f31d860ace076d422	2	credit_card	0	58.69
3	8bcbe01d44d147f901cd3192671144db	4	voucher	1	0.0
4	fa65dad1b0e818e3ccc5cb0e39231352	14	voucher	1	0.0
5	6ccb433e00daae1283ccc956189c82ae	4	voucher	1	0.0
6	4637ca194b6387e2d538dc89b124b0ee	1	not_defined	1	0.0
7	00b1cb0320190ca0daa2c88b35206009	1	not_defined	1	0.0
8	45ed6e85398a87c253db47c2d9f48216	3	voucher	1	0.0
9	fa65dad1b0e818e3ccc5cb0e39231352	13	voucher	1	0.0
10	c8c528189310eaa44a745b8d9d26908b	1	not_defined	1	0.0

SELECT * FROM `Target.products`



Row	product_id	product_category	product_name_length_	product_description_length	product_photos_qty	product_weight.	product_length	product_height	product_width
1	a0ab96e461d745	climatization	41	717	1	1050	18	7	8
2	4d7585daba2f8b3	fixed telephony	53	897	2	300	15	8	9
3	20ae7c024ede61	fixed telephony	25	455	1	330	17	11	9
4	ad7aebed205805	Construction Tools Tools	41	2526	2	1150	22	10	9
5	16d096faa275829	Agro Industria e Comercio	50	1153	1	4050	11	18	10
6	980ecbcc15fe174	Agro Industria e Comercio	48	157	1	250	17	3	10
7	2b6535d32c6996	CONSTRUCTION SECURI	50	428	2	333	16	9	10
8	fdcf45aa23bb831	Christmas articles	39	258	1	250	16	12	11
9	33abaf0c29c1484	fixed telephony	41	261	9	100	19	3	11
10	c023dc7b323cb5	Christmas articles	43	262	1	600	16	15	11
					Results per p	age: 50 ▼	1 - 50 of 329	51 < <	> >I

SELECT * FROM `Target.sellers`



Row	seller_id	seller_zip_code_prefix	seller_city	seller_state	
1	4be2e7f96b4fd749d52dff41f80e39dd	69900	rio branco	AC	
2	327b89b872c14d1c0be7235ef4871685	69005	manaus	AM	
3	4221a7df464f1fe2955934e30ff3a5a1	48602	bahia	BA	
4	651530bf5c607240ccdd89a30c9c9712	44600	ipira	ВА	
5	2b402d5dc42554061f8ea98d1916f148	44900	irece	BA	
6	d03698c2efd04a549382afa6623e27fb	45658	ilheus	ВА	
7	c72de06d72748d1a0dfb2125be43ba63	46430	guanambi	BA	
8	fc59392d66ef99377e50356ee4f3b4e1	40243	salvador	BA	
9	b00af24704019bd2e1b335e70ad11f7c	40130	salvador	BA	
10	eb4a59a06b3948e851a7d7a830bcbc42	41820	salvador	BA	
				Results per page: 50 ▼	1 – 50 of <mark>3095</mark>

Check the data range available:

select

min(order_purchase_timestamp) as min_date,
max(order_purchase_timestamp) as max_date

from `target_sql.orders

Row	min_date	max_date
1	2016-09-04 21:15:19 UTC	2018-10-17 17:30:18 UTC

Customer data:

Customer State	Number of Customers
AC	81
AL	413
AM	148
AP	68
BA	3,380
CE	1,336
DF	2,140
ES	2,033
GO	2,020
MA	747
MG	11,635
MS	715
MT	907
PA	975
PB	536
PE	1,652
PI	495
PR	5,045
RJ	12,852
RN	485
RO	253
RR	46
RS	5,466
SC	3,637
SE	350
SP	41,746
то	280
Grand Total	99,441

In-depth Exploration: -

Cities and States of customers ordered during the year 2017

```
o.order_purchase_timestamp,
o.customer_id,
c.customer_city,
c.customer_state

FROM

Target.orders o

LEFT JOIN

Target.customers c

ON
c.customer_id=o.customer_id

WHERE
o.order_purchase_timestamp BETWEEN '2017-01-01 00:00:00'

AND '2017-12-31 23:59:59'

ORDER BY
o.order_purchase_timestamp
```

Row	order_purchase_timestamp	customer_id	customer_city //	customer_state
1	2017-01-05 11:56:06 UTC	c24fc5f9a446b4d8262041b9c	curitiba	PR
2	2017-01-05 12:01:20 UTC	ff3c6d35b4927c9b965aa6a68	curitiba	PR
3	2017-01-05 12:06:36 UTC	d2c63ad286e3ca9dd69218008	curitiba	PR
4	2017-01-05 12:09:08 UTC	e6bee29442c761ff0dfb9a4414	curitiba	PR
5	2017-01-05 12:11:23 UTC	42d857e22f61f10476f0cda1aa	curitiba	PR
6	2017-01-05 12:14:58 UTC	64b56cb1662271f54a81d96a2	curitiba	PR
7	2017-01-05 13:01:48 UTC	efdf4a7c78d7c364046efb6903	curitiba	PR
8	2017-01-05 13:29:03 UTC	8fa33a3159dfc303b8aeccf859	curitiba	PR
9	2017-01-05 13:31:22 UTC	3a7856f2a103364d279de7f72	curitiba	PR
10	2017-01-05 13:33:45 UTC	63433f6eb6f0a79cbb24e940d	curitiba	PR

Total 45101 orders made in that year.

Cities with most customer acquisition

```
c.customer_city,
(select count(customer_city) from Target.customers t where c.customer_city=t.customer_city) as Market_share
FROM
Target.orders o
LEFT JOIN
Target.customers c
ON
c.customer_id=o.customer_id
WHERE
o.order_purchase_timestamp BETWEEN '2017-01-01 00:00:00'
AND '2017-12-31 23:59:59'
group by customer_city
order by Market_share Desc
```

Row	customer_city	Market_share
1	sao paulo	15540
2	rio de janeiro	6882
3	belo horizonte	2773
4	brasilia	2131
5	curitiba	1521
6	campinas	1444
7	porto alegre	1379
8	salvador	1245
9	guarulhos	1189
10	sao bernardo do campo	938
11	niteroi	849
12	santo andre	797

Total No of cities = 3290

Cities with most Sales

```
SELECT c.customer_city, sum(oi.price) as Total_sales
FROM
(Target.order_items oi
LEFT JOIN
Target.orders o ON oi.order_id =o.order_id)
LEFT JOIN
Target.customers c
ON
c.customer_id=o.customer_id

WHERE
o.order_purchase_timestamp BETWEEN '2017-01-01 00:00:00'
AND '2017-12-31 23:59:59'
group by customer_city
order by Total_sales DESC
```

Row	customer_city	Total_sales
1	sao paulo	782279.340
2	rio de janeiro	494259.250
3	belo horizonte	150067.259
4	brasilia	134057.439
5	porto alegre	93697.1699
6	curitiba	85103.7599
7	salvador	84836.6999
8	campinas	81850.4399
9	guarulhos	59767.9000
10	niteroi	48942.5500
11	fortaleza	45993.9300
12	sao bernardo do campo	45848.9400

Total No of cities = 3273

Here we can see that Rio de Janeiro has market share of **6882** compared to Sao Paulo which has **15540** but total sales is **494260**. Compared to **782280**.

This mean people in Rio de Janeiro spend more than Sao Paulo per person.

Let's confirm this theory!

```
SELECT
SUM(price)
FROM
`Target.order_items`
WHERE
 price > 1000
 AND order_id IN (
 SELECT
 order_id
 FROM
 `Target.orders`
 WHERE
  order_purchase_timestamp BETWEEN '2017-01-01 00:00:00'
  AND '2017-12-31 23:59:59'
  AND customer_id IN (
  SELECT
```

^{*}So, we can assume that they probably buy expensive products.

```
customer_id
FROM
`Target.customers`
WHERE
customer_city = 'rio de janeiro'))
Row total_sales

1 58388.2299...
```

- -- Rio De Janeiro Sales OF products above 1000
- -- Total SUM(Sales) 58388 but total sales is 494260.

Let's check below 1000:-

```
SELECT
 SUM(price)
FROM
 `Target.order_items`
WHERE
 price < 1000
 AND order_id IN (
 SELECT
 order_id
 FROM
  `Target.orders`
 WHERE
  order_purchase_timestamp BETWEEN '2017-01-01 00:00:00'
  AND '2017-12-31 23:59:59'
  AND customer_id IN (
  SELECT
  customer_id
  FROM
  `Target.customers`
  WHERE
   customer_city = 'rio de janeiro'))
                  total_sales
                  435871.020...
          1
```

- -- Rio De Janeiro Sales of products below 1000
- -- Total Sum(Sales) 435871 and total sales is 494260.

After applying more ranges we got the range of products which are highly sold

```
-- Rio De Janeiro Sales - 2017

-- Total Sales - 494259

SELECT

SUM(price)

FROM

`Target.order_items`

WHERE
```

```
price BETWEEN 50
AND 300
AND order_id IN (
SELECT
order_id
FROM
 `Target.orders`
WHERE
 order_purchase_timestamp BETWEEN '2017-01-01 00:00:00'
 AND '2017-12-31 23:59:59'
 AND customer_id IN (
 SELECT
 customer_id
 FROM
  `Target.customers`
 WHERE
  customer_city = 'rio de janeiro'))
  Row
```

Insite:

Most sold products are in range of 50-300

Now let's see weather any products in the above range are not available in Rio de Janeiro.

```
SELECT
 product_id
FROM
 `Target.order_items`
WHERE
 price BETWEEN 50
 AND 300
 AND order_id IN (
 SELECT
 order_id
 FROM
 `Target.orders`
 WHERE
  order_purchase_timestamp BETWEEN '2017-01-01 00:00:00'
  AND '2017-12-31 23:59:59'
  AND customer_id IN (
  SELECT
   customer_id
  FROM
   `Target.customers`
  WHERE
   customer_city = 'rio de janeiro'))
```

Row	product_id //
1	12a947baa3e0ab6254ebfec78
2	163e6400e6dadd0fe04775c5e
3	2615fceb03b49ac6e17fa5b8f2
4	810cb3c5af006624fa32d3620
5	a10e0fcb1c409869c3c6da4eb
6	a10e0fcb1c409869c3c6da4eb
7	aea6413d9a7fadfe4a7479cafe
8	cde89c19bf58d71bc836b1495
9	ea44caac707f7f1325182a538
10	f6e3aeb40c00aec24ade8333c

Here 2324 products are there range between 50 -300.

9

c71bf92cf123eb294304073fc1...

10 cfe9e8e1f0400c8cc665d41722...

300.0

300.0

```
select distinct product_id , price from `Target.order_items`
where product_id in
select product_id from `Target.products`
where product_id not in
(select product_id from `Target.order_items` where price between 50 and 300 and order_id in
(select order_id from `Target.orders` where order_purchase_timestamp BETWEEN '2017-01-01 00:00:00' AND '2017-12-
31 23:59:59' and customer_id in
(select customer_id from `Target.customers` where customer_city = 'rio de janeiro')))
) and price between 50 and 300
order by price desc
     1 1fd10191b0bcd5aa4020c0721...
                                         300.0
     2 50fb810523dcd3bd271eb7b6d...
                                         300.0
     3 74e901ea4caa0b0488e835043...
                                         300.0
     4 98ba4d6506268560a9b0a03b...
                                         300.0
         9c84b4ffd1a85bf2feb6cba0e2...
                                         300.0
     6
        a1692a17fad005e22bf5a5435...
                                         300.0
     7 bf2f8d918c34551d0bc8861f37...
                                         300.0
     8 c155f6ba0dae0f11299f1e33faf...
                                         300.0
```

Results per page: 50 ▼ 1 - 50 of 21573

Recommendations:-

Here 21573 products are in range of 50-300 that should also be sold in Rio de Janeiro.

```
select extract(year from order_purchase_timestamp) as year ,sum(p.payment_value) as yearly_sales from `Target.orders` o join `Target.payments` p on o.order_id = p.order_id group by year order by year
```

Row	year	11	yearly_sales //
1		2016	59362.3400
2		2017	7249746.72
3		2018	8699763.04

Here, we can see growing trend of E-Commerce in Brazil.

```
What time do Brazilian customers tend to buy (Dawn, Morning, Afternoon or Night) select count(*) as No_of_Purchases, Prefered_Time from (select case when extract(HOUR from order_purchase_timestamp) < 6 then 'Dawn' when extract(HOUR from order_purchase_timestamp) < 12 then 'Morning' when extract(HOUR from order_purchase_timestamp) < 18 then 'Afternoon' else 'Night' end as Prefered_Time from `Target.orders`)
```

group by Prefered_Time

Row	No_of_Purchase	Prefered_Time
1	22240	Morning
2	4740	Dawn
3	38361	Afternoon
4	34100	Night

Here Brazilians prefer to order at Afternoon then at Night, then at Morning and least during Dawn.

 $Time_to_delivery = order_purchase_timestamp-order_delivered_customer_date$

 $select\ o. customer_id, c. customer_state,\ (o. order_purchase_timestamp-order_delivered_customer_date)\ as\ time_to_delivery\ from\ `Target.orders'\ o$

join `Target.customers` c on c.customer_id =o.customer_id

order by time_to_delivery desc_

	·-·-		
Row	customer_id //	customer_state //	time_to_delivery
1	b19da0df0271e8a3553e3670f	RJ	0-0 0 -12:48:7
2	922a46283625e9c096bfd9989	SP	0-0 0 -18:45:10
3	6aef84c09844a371d82a49152	SP	0-0 0 -20:31:39
4	ff58662c328f81d3ee549c9caa	BA	0-0 0 -20:43:20
5	118295a853acb536efff13740f	SP	0-0 0 -21:22:41
6	198f511b5a75bf936a96f1d476	SP	0-0 0 -21:25:11
7	225aed9e773953084b09cf496	SP	0-0 0 -22:27:49
8	344423c2e26d47d2b6d3dd36	SP	0-0 0 -22:30:59
9	c5e200d485ae35a7036cc2e7c	SP	0-0 0 -23:37:30
10	18c934f4cdc994cd04eb13bce	SP	0-0 0 -23:39:18

Diff_estimated_delivery=order_estimated_delivery_date_order_delivered_customer_date

select o.customer_id,c.customer_state, (o.order_estimated_delivery_dateo.order_delivered_customer_date) as diff_estimated_delivery

from `Target.orders` o

join `Target.customers` c on c.customer_id = o.customer_id

order by diff_estimated_delivery desc

Row	customer_id	customer_state	diff_estimated_delivery
1	a5fbb6579eacbeb02752a143b	SP	0-0 0 3504:23:13
2	964253ff0e4e08180064764a4	MA	0-0 0 3345:32:15
3	32cef4bdd6bfa50612d81dc77	RS	0-0 0 3223:24:17
4	6357fffb5704244d552615bbfc	SP	0-0 0 2962:24:6
5	6210a37f9d6a265a4f3fbe2c21	RJ	0-0 0 2602:10:53
6	b882cbae40f34e60a3ec3efefa	SP	0-0 0 1993:41:37
7	816642e9995c2461f2172469e	SP	0-0 0 1990:7:26
8	5fd5cb96f515996e88d84c610	ES	0-0 0 1855:47:10
9	0f9043c635f86f7eb1e8fc0770	MG	0-0 0 1852:38:21
10	6e5b6ba2e8de70d9e920b541a	MG	0-0 0 1851:37:50

-- Average Freight Value of 5 states

```
select c.customer_state,avg(freight_value) as avg_freight from (select oi.freight_value, o.order_id, o.customer_id from `Target.orders` o join `Target.order_items` oi on o.order_id = oi.order_id) as a join `Target.customers` c on c.customer_id = a.customer_id group by c.customer_state order by avg_freight desc limit 5
```

Row	customer_state	avg_freight
1	RR	42.9844230
2	PB	42.7238039
3	RO	41.0697122
4	AC	40.0733695
5	PI	39.1479704

Top 5 states where delivery is really fast/ not so fast compared to estimated date

select o.customer_id,c.customer_state, (o.order_estimated_delivery_dateo.order_delivered_customer_date) as diff_estimated_delivery
from `Target.orders` o
join `Target.customers` c on c.customer_id =o.customer_id

order by diff_estimated_delivery desc limit 5

Row	customer_id	customer_state	diff_estimated_delivery
1	a5fbb6579eacbeb02752a143b	SP	0-0 0 3504:23:13
2	964253ff0e4e08180064764a4	MA	0-0 0 3345:32:15
3	32cef4bdd6bfa50612d81dc77	RS	0-0 0 3223:24:17
4	6357fffb5704244d552615bbfc	SP	0-0 0 2962:24:6
5	6210a37f9d6a265a4f3fbe2c21	RJ	0-0 0 2602:10:53

-- Top 5 states with highest/lowest average time to delivery

select o.customer_id,c.customer_state, avg(o.order_purchase_timestamp-order_delivered_customer_date) as avg_time_to_delivery from `Target.orders` o join `Target.customers` c on c.customer_id =o.customer_id group by customer_state,customer_id order by avg_time_to_delivery desc limit 5

Row	customer_id	customer_state	avg_time_to_delivery
1	b19da0df0271e8a3553e3670f	RJ	0-0 0 -12:48:7
2	922a46283625e9c096bfd9989	SP	0-0 0 -18:45:10
3	6aef84c09844a371d82a49152	SP	0-0 0 -20:31:39
4	ff58662c328f81d3ee549c9caa	BA	0-0 0 -20:43:20
5	118295a853acb536efff13740f	SP	0-0 0 -21:22:41

```
select o.customer_id,c.customer_state, avg(o.order_purchase_timestamp-order_delivered_customer_date) as avg_time_to_delivery from `Target.orders` o join `Target.customers` c on c.customer_id =o.customer_id group by customer_state,customer_id order by avg_time_to_delivery limit 5
```

Row /	customer_id	customer_state	avg_time_to_delivery
1	725e9c75605414b21fd8c8d5a	RJ	null
2	4ee64f4bfc542546f422da0aeb	RS	null
3	438449d4af8980d107bf04571	SP	null
4	964a6df3d9bdf60fe3e7b8bb69	DF	null
Е	746160f4f0160E06664f00a0a	DD	2011

Payment type analysis:

Count of orders based on the no. of payment installments

select payment_installments,max(Total_orders) as Total_orders from (select payment_installments, count(*) over(partition by payment_installments order by payment_installments)as Total_orders from `Target.payments`

group by payment_installments

Row	payment_installr	Total_orders //
1	0	2
2	1	52546
3	2	12413
4	3	10461
5	4	7098
6	5	5239
7	6	3920
8	7	1626
9	8	4268
10	9	644
11	10	5328
12	11	23

Month over Month count of orders for different payment types-Credit Card: -

 ${\color{red} {\sf SELECT}\ extract\ (month\ from\ o.order_purchase_timestamp)\ as\ Months\ ,}$

COUNT(p.order_id) as monthly_order

 $FROM `Target.orders` o join `Target.payments` p on p.order_id = o.order_id$

where p.payment_type = 'credit_card'

GROUP BY Months

order by Months

order 477
424
591
572
613
563
645
589
302
318
387
294

Voucher: -

 $\underline{SELECT}\ extract\ (month\ from\ o.order_purchase_timestamp)\ as\ Months\ ,$

COUNT(p.order_id) as monthly_order

 $FROM `Target.orders` \ o \ join `Target.payments` \ p \ on \ p.order_id = o.order_id$

where $p.payment_type = 'voucher'$

GROUP BY Months

order by Months

Row	Months	monthly_order
1	1	477
2	2	424
3	3	591
4	4	572
5	5	613
6	6	563
7	7	645
8	8	589
9	9	302
10	10	318
11	11	387
12	12	294

Not_defined: -

 $\begin{tabular}{ll} SELECT\ extract\ (month\ from\ o.order_purchase_timestamp)\ as\ Months\ , \\ COUNT(p.order_id)\ as\ monthly_order \end{tabular}$

FROM `Target.orders` o join `Target.payments` p on p.order_id=o.order_id where p.payment_type = 'not defined'

GROUP BY Months

order by Months

Row	Months	11	monthly_order
1		8	2
2		9	1

debit_card:-

 $\underline{SELECT}\ extract\ (month\ from\ o.order_purchase_timestamp)\ as\ Months\ ,$

COUNT(p.order_id) as monthly_order

FROM `Target.orders` o join `Target.payments` p on p.order_id=o.order_id where p.payment_type = 'debit_card'

GROUP BY Months

order by Months

Row /	Months	11	monthly_order
1		1	118
2		2	82
3		3	109
4		4	124
5		5	81
6		6	209
7		7	264
8		8	311
9		9	43
10	1	0	54
F 11	1	1	70
12	1	2	64

UPI :-

 $\label{eq:selection} \begin{array}{l} \textbf{SELECT extract (month from o.order_purchase_timestamp) as Months}\,,\\ \textbf{COUNT}(p.order_id) \ as \ monthly_order\\ \textbf{FROM `Target.orders` o join `Target.payments` p on p.order_id=o.order_id\\ \textbf{where p.payment_type} = \text{'UPI'}\\ \textbf{GROUP BY Months}\\ \textbf{order by Months} \end{array}$

Row	Months //	monthly_order
1	1	1715
2	2	1723
3	3	1942
4	4	1783
5	5	2035
6	6	1807
7	7	2074
8	8	2077
9	9	903
10	10	1056
11	11	1509
12	12	1160