

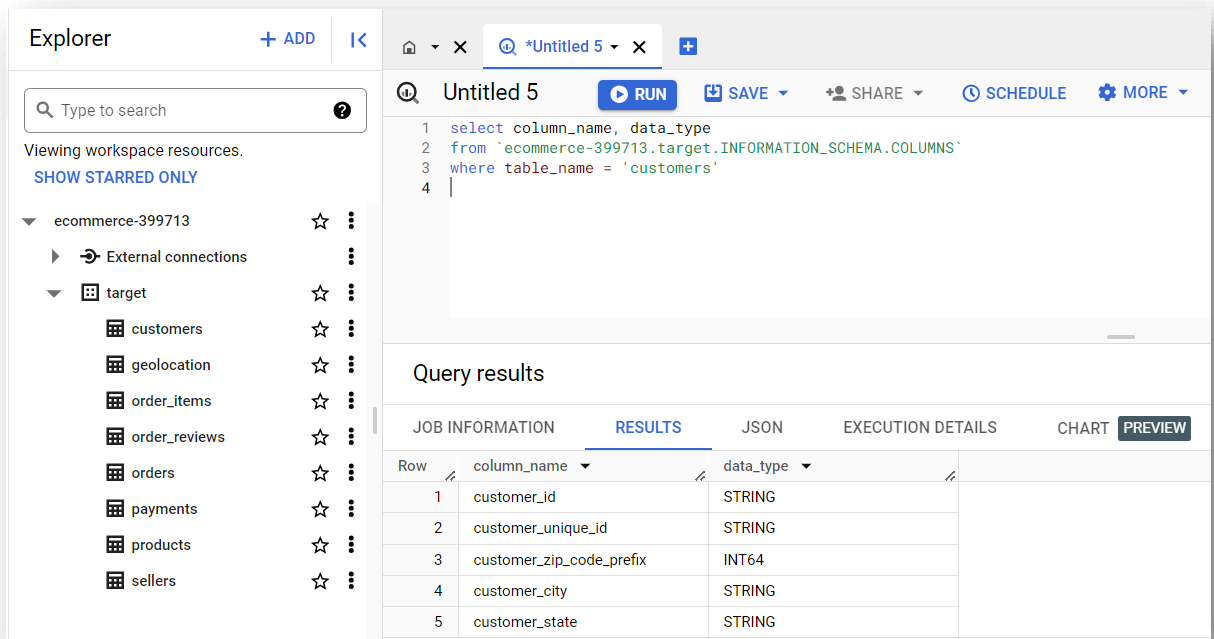
Business case: Target SQL

1.1 Data type of all columns in the “customers” table

Query:-

```
select column_name, data_type
from `ecommerce-399713.target.INFORMATION_SCHEMA.COLUMNS`
where table_name = 'customers'
```

Output Screenshot:-



The screenshot displays a SQL IDE interface. On the left, the 'Explorer' pane shows a project named 'ecommerce-399713' with a 'target' database containing several tables, including 'customers'. The main editor area shows a SQL query titled 'Untitled 5' that retrieves the column names and data types for the 'customers' table. Below the query editor, the 'Query results' section is active, showing a table with 5 rows of data.

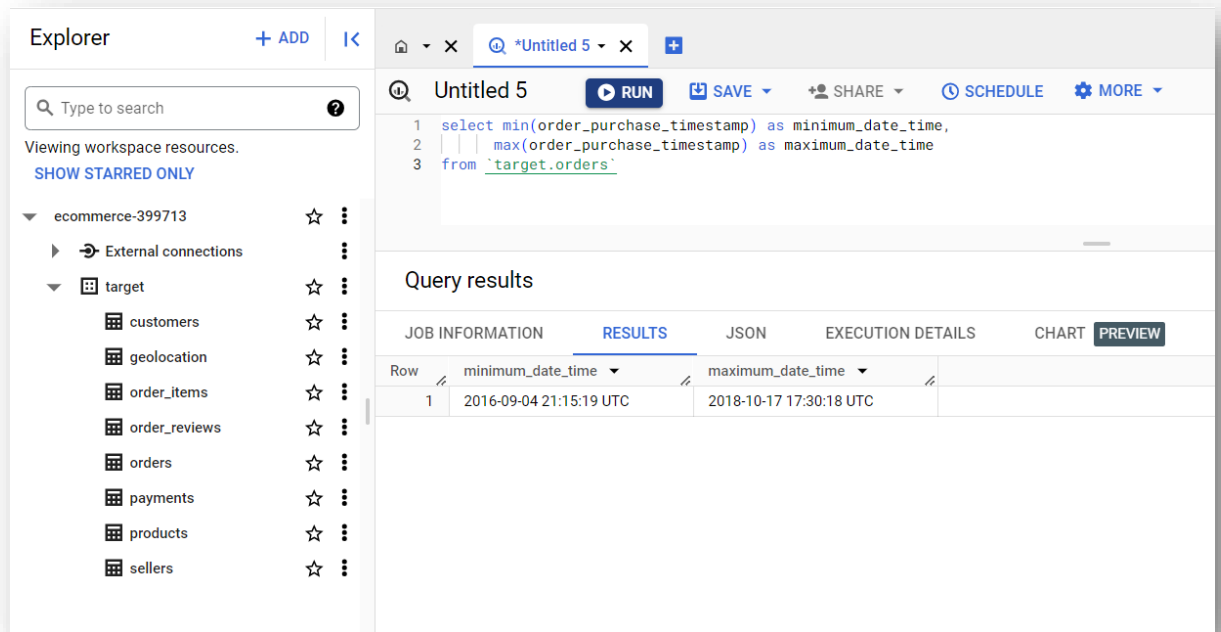
Row	column_name	data_type
1	customer_id	STRING
2	customer_unique_id	STRING
3	customer_zip_code_prefix	INT64
4	customer_city	STRING
5	customer_state	STRING

1.2 Get the time range between which the orders were placed

Query:-

```
select min(order_purchase_timestamp) as minimum_date_time,
max(order_purchase_timestamp) as maximum_date_time
from `target.orders`
```

Output Screenshot:-

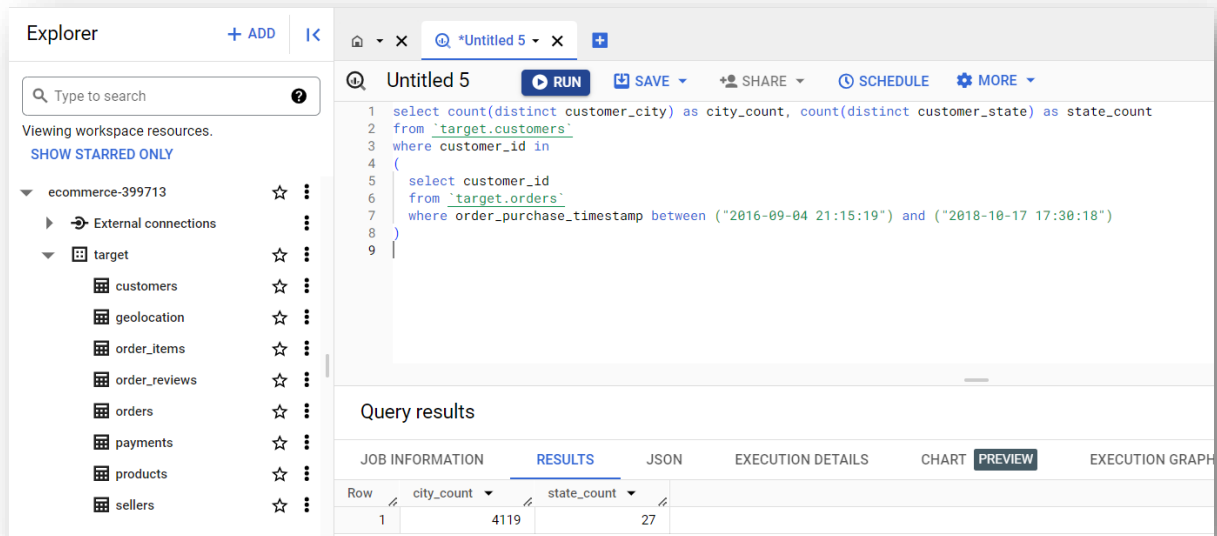


1.3 Count the Cities & States of customers who ordered during the given period

Query:-

```
select count(distinct customer_city) as city_count, count(distinct customer_state) as
state_count
from `target.customers`
where customer_id in
(
  select customer_id
  from `target.orders`
  where order_purchase_timestamp between ("2016-09-04 21:15:19") and ("2018-10-17
17:30:18")
)
```

Output Screenshot:-



2.1 Is there a growing trend in the no. of orders placed over the past years?

Assumption:-

- Considering, once the payment has been received for any purchase order that order is called as placed order. And not taking order status as cancelled and unavailable for placed orders.

Query:-

```

select
  extract(year from order_purchase_timestamp) as year,
  extract(month from order_purchase_timestamp) as month,
  count(distinct p.order_id) as no_of_placed_orders
from `target.payments` as p
inner join `target.orders` as o
on o.order_id=p.order_id
where order_status not in ("canceled", "unavailable")
group by year, month
order by year, month

```

Output Screenshot:-

Explorer + ADD <

Search: Type to search

Viewing workspace resources. [SHOW STARRED ONLY](#)

- ecommerce-399713
 - External connections
 - target
 - customers
 - geolocation
 - order_items
 - order_reviews
 - orders
 - payments
 - products
 - sellers

Untitled 5

```

1 select
2   extract(year from order_purchase_timestamp) as year,

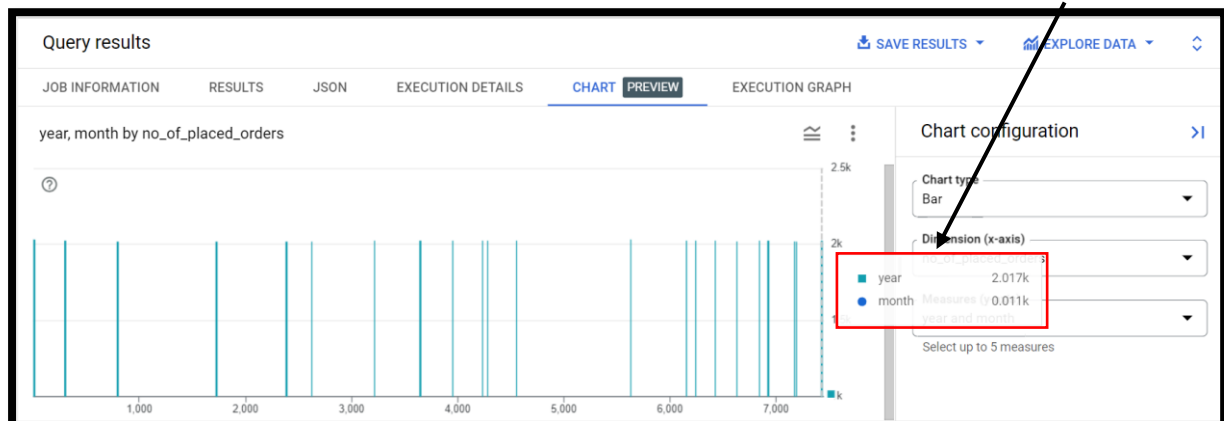
```

Query results

Row	year	month	no_of_placed_orders
1	2016	9	1
2	2016	10	293
3	2016	12	1
4	2017	1	787
5	2017	2	1718
6	2017	3	2617
7	2017	4	2377
8	2017	5	3640
9	2017	6	3205
10	2017	7	3946
11	2017	8	4272
12	2017	9	4227
13	2017	10	4547

Insights:-

Highest no. of placed orders in Nov, 2017



There is a growing trend in the number of placed orders over the past years. People are choosing to buy more things online than before as online shopping is convenient from the time saving perspective as well.

2.2 Can we see some kind of monthly seasonality in terms of the no. of orders being placed?

Assumption:-

- Considering, once the payment has been received for any purchase order that order is called as placed order. And not taking order status as cancelled and unavailable for placed orders.

Query:-

```

select
  extract(year from order_purchase_timestamp) as year,
  extract(month from order_purchase_timestamp) as month,
  count(distinct p.order_id) as no_of_placed_orders
from `target.payments` as p
inner join `target.orders` as o
on o.order_id=p.order_id
where order_status not in ("canceled", "unavailable")
group by year, month
order by year, month

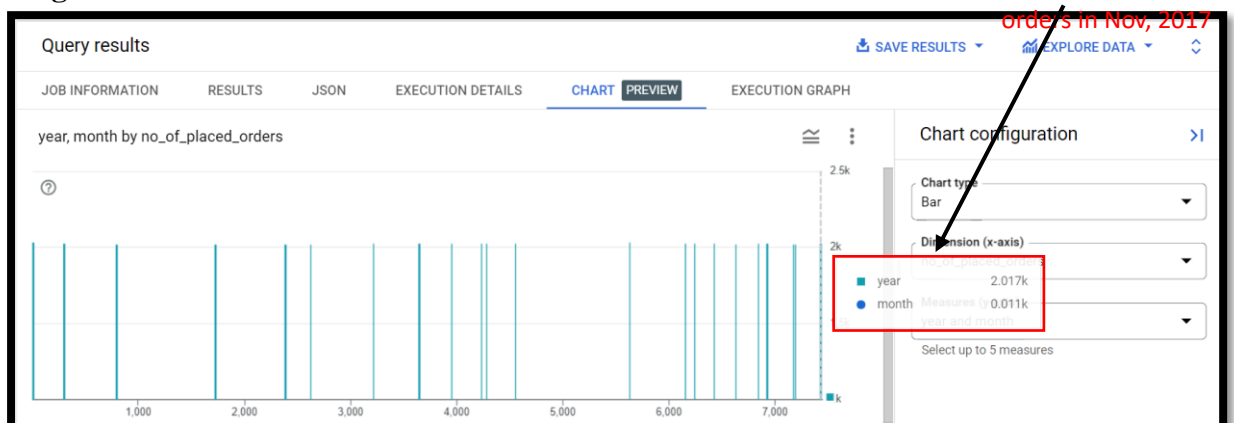
```

Output Screenshot:-

The screenshot shows a data exploration interface with an Explorer panel on the left listing database resources like 'customers', 'geolocation', 'order_items', 'order_reviews', 'orders', 'payments', 'products', and 'sellers'. The main panel displays a SQL query titled 'Untitled 5' and its results in a table.

Row	year	month	no_of_placed_orders
1	2016	9	1
2	2016	10	293
3	2016	12	1
4	2017	1	787
5	2017	2	1718
6	2017	3	2617
7	2017	4	2377
8	2017	5	3640
9	2017	6	3205
10	2017	7	3946
11	2017	8	4272
12	2017	9	4227
13	2017	10	4547

Insights:-



Number of placed orders are varying as per the monthly seasonality. Through the output of the query, it is visible that in the year of 2016, October month has highest number of placed orders due to Halloween, while in the year of 2017, November month has the highest number

of placed orders due to Black awareness day, Republic Proclamation Day, and upcoming new year celebration.

Recommendation:- The company should offer some discount and combos for Brazilian customers during the festival months also, in business “Anchored Price” concept can be used to increase the number of placed orders and sales.

(Anchored Price:- Price anchoring is a marketing strategy where a business establishes a visible starting price for a product but emphasizes its current discounted price. The initial price acts as a reference point or "anchor" against which the lower-priced option is contrasted, creating a perception of greater attractiveness for the discounted option.)

2.3 During what time of the day, do the Brazilian customers mostly place their orders? (Dawn, Morning, Afternoon or Night)

- **0-6 hrs : Dawn**
- **7-12 hrs : Mornings**
- **13-18 hrs : Afternoon**
- **19-23 hrs : Night**

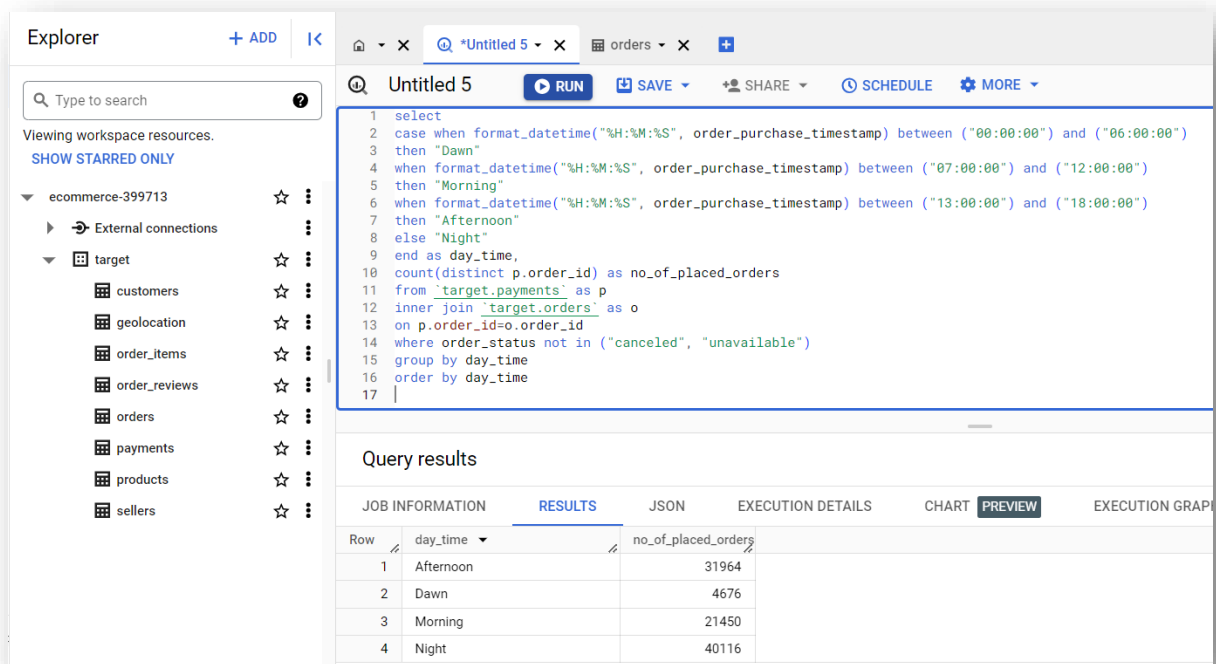
Assumption:-

- Considering, once the payment has been received for any purchase order that order is called as placed order. And not taking order status as cancelled and unavailable for placed orders.

Query:-

```
select
case when format_datetime("%H:%M:%S", order_purchase_timestamp) between ("00:00:00") and
("06:00:00")
then "Dawn"
when format_datetime("%H:%M:%S", order_purchase_timestamp) between ("07:00:00") and
("12:00:00")
then "Morning"
when format_datetime("%H:%M:%S", order_purchase_timestamp) between ("13:00:00") and
("18:00:00")
then "Afternoon"
else "Night"
end as day_time,
count(distinct p.order_id) as no_of_placed_orders
from `target.payments` as p
inner join `target.orders` as o
on p.order_id=o.order_id
where order_status not in ("canceled", "unavailable")
group by day_time
order by day_time
```

Output Screenshot:-



Insights:-



Through the query output, Brazilian customers mostly place their orders at night. This indicates that, customers are placing more orders after completing their day to day activities as per their convenience.

Recommendation:- With this information e-commerce company “Target” can make their marketing strategies to the specific time period that can maximize their reach to customers and sales.

3.1 Get the month on month no. of orders placed in each state

Assumption:-

- Considering, once the payment has been received for any purchase order that order is called as placed order. And not taking order status as cancelled and unavailable for placed orders.

Query:-

```

select
  extract(year from order_purchase_timestamp) as year,
  extract(month from order_purchase_timestamp) as month,
  count(distinct p.order_id) as no_of_placed_orders,
  customer_state
from `target.payments` as p
inner join `target.orders` as o
on p.order_id=o.order_id
inner join `target.customers` as c
on c.customer_id=o.customer_id
where order_status not in ("canceled", "unavailable")
group by year, month, customer_state
order by year, month, customer_state

```

Output Screenshot:-

The screenshot shows a data analytics tool interface. On the left is an 'Explorer' panel with a search bar and a tree view of workspace resources. The main area displays a SQL query in a text editor, followed by a 'Query results' section. The results are shown in a table with columns for Row, year, month, no_of_placed_orders, and customer_state. The table contains 13 rows of data for the year 2016, month 10, across various customer states.

Explorer Panel:

- ecommerce-399713
 - External connections
 - target
 - customers
 - geolocation
 - order_items
 - order_reviews
 - orders
 - payments
 - products
 - sellers

Query Editor:

```

1 select
2   extract(year from order_purchase_timestamp) as year,

```

Query results:

Row	year	month	no_of_placed_orders	customer_state
1	2016	10	9	RR
2	2016	10	10	AL
3	2016	10	10	BA
4	2016	10	10	CE
5	2016	10	10	DF
6	2016	10	10	ES
7	2016	10	10	GO
8	2016	10	10	MA
9	2016	10	10	MG
10	2016	10	10	MT
11	2016	10	10	PA
12	2016	10	10	PB
13	2016	10	10	PE

Insights:-



Through the query output, São Paulo (SP) Brazilian state has the highest number of placed orders in October, 2016 and in November, 2017.

Recommendations:- Partnering with more vendors and sellers, customers can have variation in products and their price accordingly they can choose as per their budget which can lead to increment in order count and price as well.

3.2 How are the customers distributed across all the states?

Query:-

```
select
customer_state, count(distinct customer_id) as no_of_customers
from `target.customers`
group by customer_state
order by no_of_customers desc
```

Output Screenshot:-

Explorer

+ ADD

K

Type to search

?

Viewing workspace resources.

SHOW STARRED ONLY

ecommerce-399713

External connections

target

customers

geolocation

order_items

order_reviews

orders

payments

products

sellers

Untitled 5

RUN

SAVE

SHARE

SCHEDULE

```

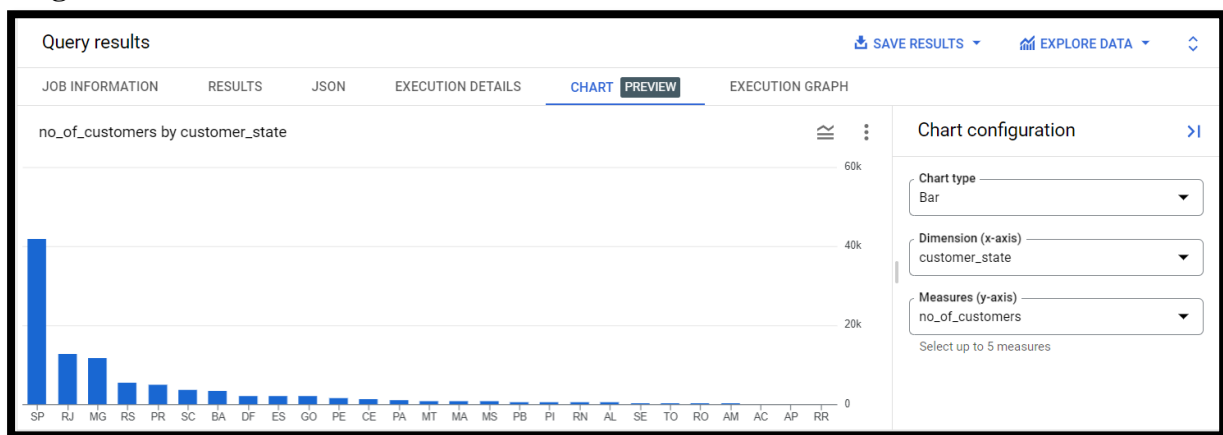
1 select
2 customer_state, count(distinct customer_id) as no_of_customers

```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	customer_state	no_of_customers		
1	SP	41746		
2	RJ	12852		
3	MG	11635		
4	RS	5466		
5	PR	5045		
6	SC	3637		
7	BA	3380		
8	DF	2140		
9	ES	2033		
10	GO	2020		
11	PE	1652		
12	CE	1336		
13	PA	975		

Insights:-



São Paulo (SP) Brazilian state has the highest number of “Target” customers. This analysis also indicates a good relation between number of customers in each state and number of orders.

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

Query:-

```

with cost_17 as (
select

```

```

round(sum(payment_value),2) as cost_of_orders
from `target.payments` as p
inner join `target.orders` as o
on p.order_id=o.order_id
where extract(year from order_purchase_timestamp)=2017 and extract(month from
order_purchase_timestamp) between 1 and 8
), cost_18 as (
select
round(sum(payment_value),2) as cost_of_orders
from `target.payments` as p
inner join `target.orders` as o
on p.order_id=o.order_id
where extract(year from order_purchase_timestamp)=2018 and extract(month from
order_purchase_timestamp) between 1 and 8
)

select c17.cost_of_orders as cost_of_2017, c18.cost_of_orders as cost_of_2018,
(((c18.cost_of_orders-c17.cost_of_orders)/c17.cost_of_orders)*100) as perc_inc
from cost_17 as c17, cost_18 as c18

```

Output Screenshot:-

The screenshot shows a data exploration tool interface. On the left is an 'Explorer' pane with a search bar and a tree view of workspace resources. The tree view shows a folder 'ecommerce-399713' containing 'External connections' and a 'target' folder. The 'target' folder contains several tables: customers, geolocation, order_items, order_reviews, orders, payments, products, and sellers. The main area displays a SQL query in a text editor titled 'Untitled 5'. The query is a CTE query that calculates the cost of orders for 2017 and 2018, and then calculates the percentage increase. Below the query editor is a 'Query results' section with tabs for 'JOB INFORMATION', 'RESULTS', 'JSON', 'EXECUTION DETAILS', 'CHART', and 'PREVIEW'. The 'RESULTS' tab is active, showing a table with 4 columns: 'cost_of_2017', 'cost_of_2018', 'perc_inc', and an empty column. The first row of data shows values 3669022.12, 8694733.84, and 136.9768716466... respectively.

Row	cost_of_2017	cost_of_2018	perc_inc
1	3669022.12	8694733.84	136.9768716466...

Insights:- Overall percentage in cost of orders is increased by 136.98% from year 2017 to 2018, including the months from January to August only.

Recommendation:- After analysing this data, the company “Target” can expect more orders in upcoming years and can be ready for the marketing campaigns with catchy lines as per each age group, and using social media trending videos through which ads can be highlighted in different forms like reels over Instagram.

4.2 Calculate the Total & Average value of order price for each state.

Query:-

```

select customer_state, round(sum(price),2) as total_value, round(avg(price),2) as
average_value
from `target.customers` as c

```

```

inner join `target.orders` as o
on c.customer_id=o.customer_id
inner join `target.order_items` as oi
on o.order_id=oi.order_id
group by customer_state
order by total_value desc

```

Output Screenshot:-

The screenshot shows a data analytics tool interface. On the left is an 'Explorer' panel with a search bar and a tree view of workspace resources. The tree shows a folder 'ecommerce-399713' containing 'External connections' and a 'target' folder with tables: customers, geolocation, order_items, order_reviews, orders, payments, products, and sellers. The main panel displays a SQL query in a text editor titled 'Untitled 5'. Below the editor, the 'Query results' section is active, showing a table with 12 rows. The table has columns: Row, customer_state, total_value, and average_value. The data is sorted by total_value in descending order.

Row	customer_state	total_value	average_value
1	SP	5202955.05	109.65
2	RJ	1824092.67	125.12
3	MG	1585308.03	120.75
4	RS	750304.02	120.34
5	PR	683083.76	119.0
6	SC	520553.34	124.65
7	BA	511349.99	134.6
8	DF	302603.94	125.77
9	GO	294591.95	126.27
10	ES	275037.31	121.91
11	PE	262788.03	145.51
12	CE	227254.71	153.76

Insights:- São Paulo (SP) has the highest total value and lowest average value of order price while State Paraíba (PB) has the highest average value of order price among all states.

4.3 Calculate the Total & Average value of order freight for each state.

Query:-

```

select customer_state, round(sum(freight_value),2) as total_value,
round(avg(freight_value),2) as average_value
from `target.customers` as c
inner join `target.orders` as o
on c.customer_id=o.customer_id
inner join `target.order_items` as oi
on o.order_id=oi.order_id
group by customer_state
order by total_value desc

```

Output Screenshot:-

The screenshot shows a data exploration tool with an Explorer sidebar on the left and a main workspace on the right. The Explorer sidebar lists a workspace named 'ecommerce-399713' containing a 'target' database with tables: customers, geolocation, order_items, order_reviews, orders, payments, products, and sellers. The main workspace shows a query titled 'Untitled 5' with the following SQL:

```
1 select customer_state, round(sum(freight_value),2) as total_value
2 from `target.customers` as c
```

The query results are displayed in a table with columns: Row, customer_state, total_value, and average_value. The results are as follows:

Row	customer_state	total_value	average_value
1	SP	718723.07	15.15
2	RJ	305589.31	20.96
3	MG	270853.46	20.63
4	RS	135522.74	21.74
5	PR	117851.68	20.53
6	BA	100156.68	26.36
7	SC	89660.26	21.47
8	PE	59449.66	32.92
9	GO	53114.98	22.77
10	DF	50625.5	21.04
11	ES	49764.6	22.06
12	CE	48351.59	32.71
13	PA	38699.3	35.83

Insights:- São Paulo (SP) has the highest total value and lowest average value of order freight while Roraima (RR) has the highest average value of order freight among all states.

5.1 Find the no. of days taken to deliver each order from the order's purchase date as delivery time. Also, calculate the difference (in days) between the estimated & actual delivery date of an order.

Using the below formulas to calculate the delivery time and difference between the estimated and actual delivery date:-

- $\text{time_to_deliver} = \text{order_delivered_customer_date} - \text{order_purchase_timestamp}$
- $\text{diff_estimated_delivery} = \text{order_estimated_delivery_date} - \text{order_delivered_customer_date}$

Query:-

```
select
date_diff(order_delivered_customer_date, order_purchase_timestamp, day) as time_to_deliver,
abs(date_diff(order_estimated_delivery_date, order_delivered_customer_date, day)) as
diff_estimated_delivery,
case when date_diff(order_estimated_delivery_date, order_delivered_customer_date, day)<0
then "delayed"
else "not delayed"
end as delay_flag
from `target.orders`
```

```
where order_delivered_customer_date is not null and order_purchase_timestamp is not null
and order_estimated_delivery_date is not null
order by time_to_deliver
```

Output Screenshot:-

The screenshot shows a data exploration interface. On the left is an 'Explorer' pane with a search bar and a tree view of workspace resources. The tree shows a database named 'ecommerce-399713' containing an 'External connections' folder and a 'target' database. The 'target' database contains several tables: customers, geolocation, order_items, order_reviews, orders, payments, products, and sellers. The main pane displays a query titled 'Untitled 5' with the following SQL code:

```
1 select
2 date_diff(order_delivered_customer_date, order_purchase_timestamp,
3 abs(data_diff(order_estimated_delivery_date, order_delivered_customer_date))) as time_to_deliver,
4 date_diff(order_delivered_customer_date, order_purchase_timestamp, 'day') as diff_estimated_delivery_date,
5 date_diff(order_delivered_customer_date, order_purchase_timestamp, 'day') as delay_flag
6 from target.orders
7 where order_delivered_customer_date is not null and order_purchase_timestamp is not null
8 and order_estimated_delivery_date is not null
9 order by time_to_deliver
```

Below the query, the 'Query results' are displayed in a table with columns: Row, time_to_deliver, diff_estimated_delivery_date, and delay_flag. The table contains 13 rows of data.

Row	time_to_deliver	diff_estimated_delivery_date	delay_flag
1	0	9	not delayed
2	0	25	not delayed
3	0	19	not delayed
4	0	11	not delayed
5	0	10	not delayed
6	0	7	not delayed
7	0	8	not delayed
8	0	16	not delayed
9	0	27	not delayed
10	0	12	not delayed
11	0	11	not delayed
12	0	9	not delayed
13	0	11	not delayed

Insights:- With the thorough analysis of delivery time, there are 6535 delayed deliveries and 89941 not delayed deliveries.

5.2 Find out the top 5 states with the highest & lowest average freight value.

Query:-

```
with lowest_freight_value as (
    select customer_state,
    round(avg(freight_value),2) as avg_freight_value,
    dense_rank() over(order by avg(freight_value)) as rnk
    from `target.customers` as c
    inner join `target.orders` as o
    on c.customer_id=o.customer_id
    inner join `target.order_items` as oi
    on o.order_id=oi.order_id
    group by customer_state
), highest_freight_value as (
    select customer_state,
    round(avg(freight_value),2) as avg_freight_value,
    dense_rank() over(order by avg(freight_value) desc) as rnk
    from `target.customers` as c
    inner join `target.orders` as o
```

```

on c.customer_id=o.customer_id
inner join `target.order_items` as oi
on o.order_id=oi.order_id
group by customer_state
)

select l.customer_state, l.avg_freight_value
from lowest_freight_value as l
where l.rnk between 1 and 5
union all
select h.customer_state, h.avg_freight_value
from highest_freight_value as h
where h.rnk between 1 and 5
order by avg_freight_value desc

```

Output Screenshot:-

The screenshot shows a data analytics tool interface. On the left is an 'Explorer' panel with a search bar and a tree view of workspace resources. The tree view shows a folder 'ecommerce-399713' containing 'External connections', and a folder 'target' containing tables: 'customers', 'geolocation', 'order_items', 'order_reviews', 'orders', 'payments', 'products', and 'sellers'. The main area is titled 'Untitled 5' and contains a SQL query. Below the query editor is a 'Query results' section with tabs for 'JOB INFORMATION', 'RESULTS', 'JSON', and 'EXECUTION DETAILS'. The 'RESULTS' tab is active, showing a table with 10 rows of data. The table has columns 'Row', 'customer_state', and 'avg_freight_value'.

Row	customer_state	avg_freight_value
1	RR	42.98
2	PB	42.72
3	RO	41.07
4	AC	40.07
5	PI	39.15
6	DF	21.04
7	RJ	20.96
8	MG	20.63
9	PR	20.53
10	SP	15.15

Insights:- Roraima (RR) has the highest average freight value among all states

5.3 Find out the top 5 states with the highest & lowest average delivery time.

Query:-

```

with lowest_delivery_time as (
  select
    customer_state,
    round(avg(diff),2) as avg_delivery_time,
    dense_rank() over(order by avg(diff)) as rnk

```

```

    from (
        select customer_state,
        date_diff(order_delivered_customer_date, order_purchase_timestamp, day) as diff
        from `target.customers` as c
        inner join `target.orders` as o
        on c.customer_id=o.customer_id
        where order_delivered_customer_date is not null and order_purchase_timestamp is not
null
    )
    group by customer_state
),
highest_delivery_time as (
    select
    customer_state,
    round(avg(diff),2) as avg_delivery_time,
    dense_rank() over(order by avg(diff)desc) as rnk
    from (
        select customer_state,
        date_diff(order_delivered_customer_date, order_purchase_timestamp, day) as diff
        from `target.customers` as c
        inner join `target.orders` as o
        on c.customer_id=o.customer_id
        where order_delivered_customer_date is not null and order_purchase_timestamp is not
null
    )
    group by customer_state
)

select l.customer_state, l.avg_delivery_time
from lowest_delivery_time as l
where l.rnk between 1 and 5
union all
select h.customer_state, h.avg_delivery_time
from highest_delivery_time as h
where h.rnk between 1 and 5
order by avg_delivery_time

```

Output Screenshot:-

The screenshot shows a data exploration tool with an Explorer sidebar on the left and a main workspace on the right. The Explorer sidebar lists resources under 'ecommerce-399713', including 'External connections' and a 'target' database with tables like 'customers', 'geolocation', 'order_items', 'order_reviews', 'orders', 'payments', 'products', and 'sellers'. The main workspace displays a SQL query in 'Untitled 5' and its results.

Query:

```

1 with lowest_delivery_time as (
2   select
3     customer_state,
4     round(avg(diff),2) as avg_delivery_time,
5     dense_rank() over(order by avg(diff)) as rnk
6   from (
7     select customer_state,

```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	customer_state	avg_delivery_time		
1	SP	8.3		
2	PR	11.53		
3	MG	11.54		
4	DF	12.51		
5	SC	14.48		
6	PA	23.32		
7	AL	24.04		
8	AM	25.99		
9	AP	26.73		
10	RR	28.98		

Insights:- São Paulo (SP) has the lowest average delivery time where the fastest delivery take place and Roraima (RR) state has the highest average delivery time which means that RR state has slowest delivery in Brazil.

Recommendation:- Logistics and shipping processes needs to be improve for customer satisfaction which includes the refinement of shipping routes and partnering with more courier services.

5.4 Find out the top 5 states where the order delivery is really fast as compared to the estimated date of delivery.

Query:-

```

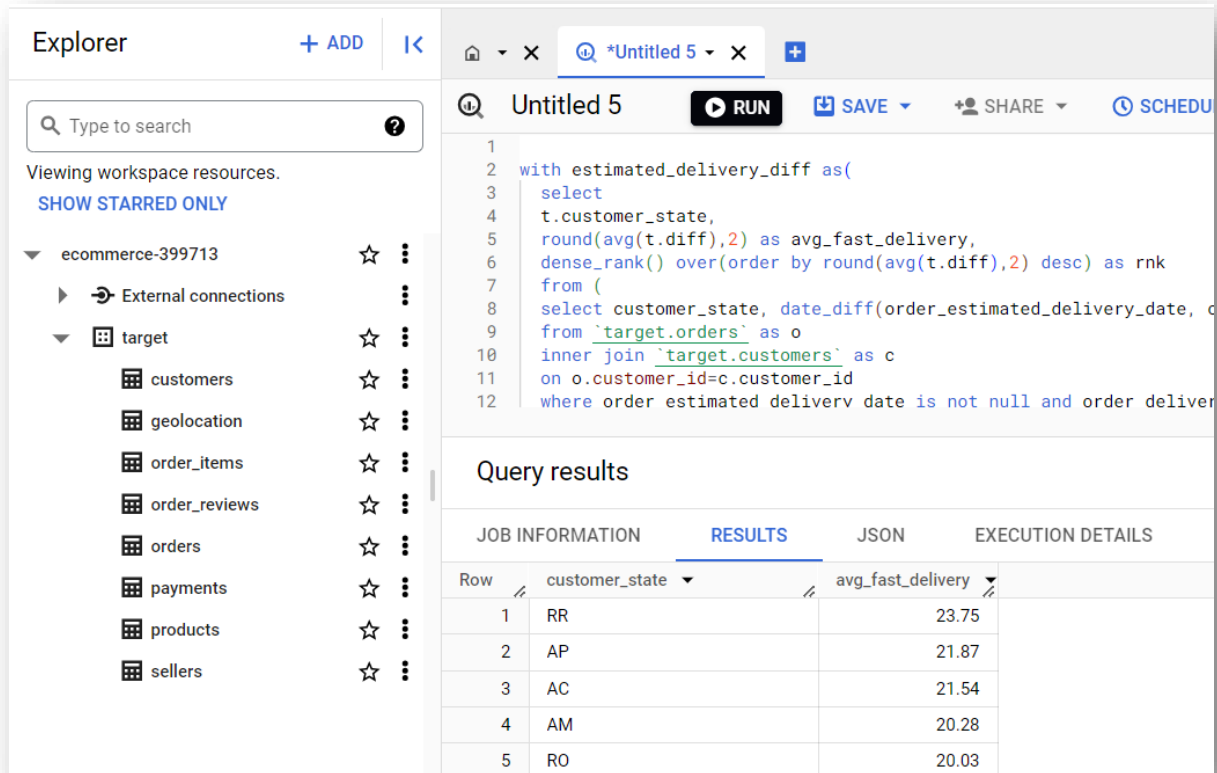
with estimated_delivery_diff as(
  select
    t.customer_state,
    round(avg(t.diff),2) as avg_fast_delivery,
    dense_rank() over(order by round(avg(t.diff),2) desc) as rnk
  from (
    select customer_state, date_diff(order_estimated_delivery_date,
order_delivered_customer_date, day) as diff
    from `target.orders` as o
    inner join `target.customers` as c
    on o.customer_id=c.customer_id
    where order_estimated_delivery_date is not null and order_delivered_customer_date is not
null and date_diff(order_estimated_delivery_date, order_delivered_customer_date, day)>0
  ) as t
group by customer_state

```

)

```
select edd.customer_state, edd.avg_fast_delivery
from estimated_delivery_diff as edd
where rnk between 1 and 5
order by avg_fast_delivery desc
```

Output Screenshot:-



Insights:-



Roraima (RR) state has the highest value of average of fast deliver that means, in RR deliveries are really fast as compared to the estimated date of delivery.

For the fastest delivery compared to estimated delivery date, calculated the difference of estimated date of delivery and the date when the product is delivered to customer the more the difference is the fast delivery is made.

6.1 Find the month on month no. of orders placed using different payment types.

Assumption:-

- Considering, once the payment has been received for any purchase order that order is called as placed order. And not taking order status as cancelled and unavailable for placed orders.

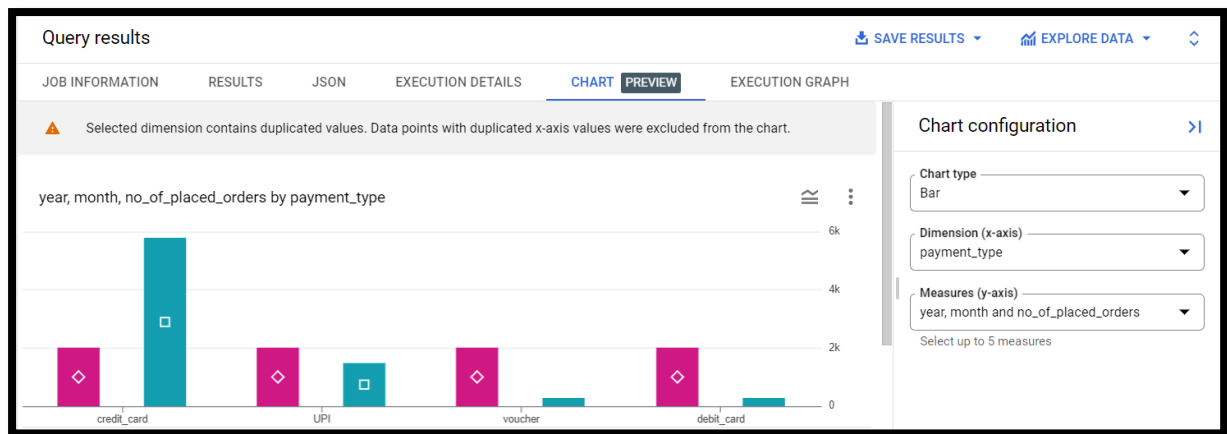
Query:-

```
select
payment_type,
extract(year from order_purchase_timestamp) as year,
extract(month from order_purchase_timestamp) as month,
count(distinct p.order_id) as no_of_placed_orders
from `target.payments` as p
inner join `target.orders` as o
on p.order_id=o.order_id
where order_status not in ("canceled", "unavailable")
group by year, month, payment_type
order by year, month, no_of_placed_orders desc
```

Output Screenshot:-

Row	payment_type	year	month	no_of_placed_orders
1	credit_card	2016	9	1
2	credit_card	2016	10	226
3	UPI	2016	10	60
4	voucher	2016	10	10
5	debit_card	2016	10	2
6	credit_card	2016	12	1
7	credit_card	2017	1	573
8	UPI	2017	1	193
9	voucher	2017	1	32
10	debit_card	2017	1	9
11	credit_card	2017	2	1300
12	UPI	2017	2	383
13	voucher	2017	2	67

Insights:-



Credit card are mostly used to place the order due to the benefits such as; “buy now, pay later” with cashback and EMI offers.

6.2 Find the no. of orders placed on the basis of the payment installments that have been paid.

Query:-

```
select
payment_installments,
count(distinct order_id) as no_of_placed_orders
from `target.payments`
group by payment_installments
order by payment_installments
```

Output Screenshot:-

Explorer

+ ADD

<

Type to search

?

Viewing workspace resources.

SHOW STARRED ONLY

ecommerce-399713

External connections

target

customers

geolocation

order_items

order_reviews

orders

payments

products

sellers

Untitled 5

RUN

SAVE

```

1 select
2 payment_installments,

```

Query results

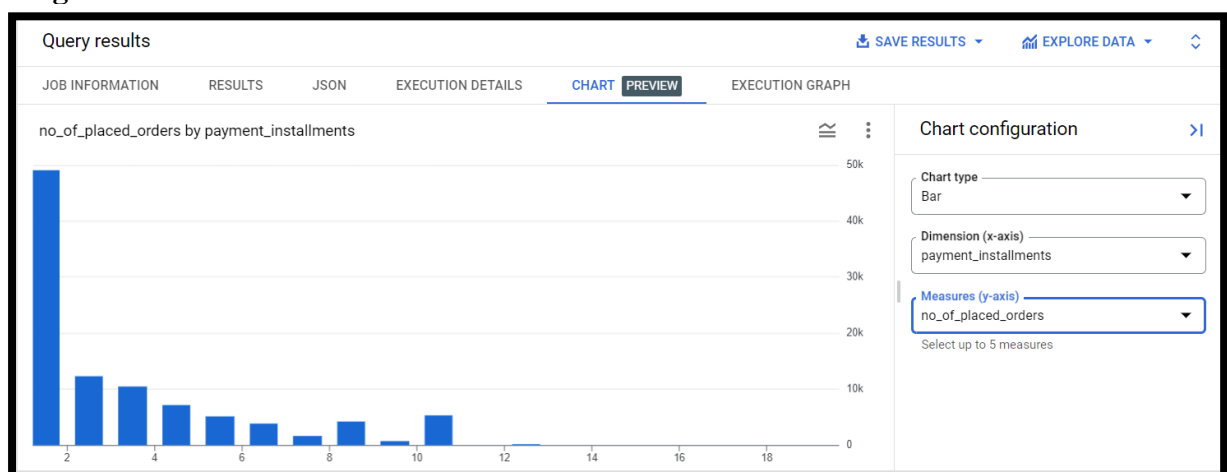
JOB INFORMATION

RESULTS

JSON

Row	payment_installment	no_of_placed_orders
1	0	2
2	1	49060
3	2	12389
4	3	10443
5	4	7088
6	5	5234
7	6	3916
8	7	1623
9	8	4253
10	9	644
11	10	5315
12	11	23
13	12	133

Insights:-



Most of the placed orders are associate with only one payment installments