Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

- Ι. Import the dataset and do usual exploratory analysis steps like checking the structure & characteristics of the dataset:
- A. Data type of all columns in the "customers" table.

Ans:

Query:

```
3 SELECT
      column_name,
5 data_type
From hybrid-life-444314-u7.Target_Company_Project.INFORMATION_SCHEMA.COLUMNS
7 WHERE table_name = 'customers';
```

#### Execution & Result:

,	<u></u>	
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

Reference to the details exploratory for the customers table found to be more String Type values and the integer is once.

I B. Get the time range between which the orders were placed

# Ans:

```
Query:
11 select
12 min(order_purchase_timestamp) as first_order_Placed,
13 max(order_purchase_timestamp) as last_order_Placed,
14 from `Target_Company_Project.orders`;
```

# **Execution & Result:**

Row	first_order_Placed ▼	last_order_Placed ▼
1	2016-09-04 21:15:19 UTC	2018-10-17 17:30:18 UTC

### Insights:

By analyzing the orders range between 2016 and 2018 and found that fist order were placed in given time period is on 04/09/2016 and last order placed on 17-10-2018.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

**C.** Count the Cities & States of customers who ordered during the given period.

#### Ans:

# Query:

```
19 select
20 count(distinct customer_city) as customer_city_count,
21 count(distinct customer_state) as customer_State_count
22 from `Target_Company_Project.orders` o
23 JOIN `Target_Company_Project.customers` c
24 On o.customer_id = c.customer_id;
```

## **Execution & Result:**

Row	customer_city_count ▼	customer_State_count	• /
1	4119		27

## Insights:

By analyzing customers and their states during the given period is that total no of states is 27 and total no of city of their customers is 4119.

# II. In-depth Exploration:

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

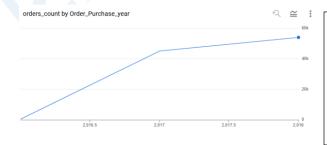
#### Ouerv

```
29 select
30 extract(year from order_purchase_timestamp) as Order_Purchase_year,
31 count(*) as orders_count,
32 DENSE_RANK() OVER (ORDER BY COUNT(*) DESC) AS Rank_By_Year
33 from <u>`Target_Company_Project.orders`</u>
34 group by 1
35 order by 1;
```

# Execution & Result:

Row	Order_Purchase_year 🕶	orders_count ▼	Rank_By_Year ▼
1	2016	329	3
2	2017	45101	2
3	2018	54011	1

# Insights:



By Analyzing the growing trend in no.of orders placed during the time period 2016 to 2018 is **high** and the **Margin** of growth is too, To simply the analyzing trend given is the graph to the left and also given Rank by the year in Execution.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

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

```
Query

38    select

39    extract(year from order_purchase_timestamp) as year,

40    extract(month from order_purchase_timestamp) as month,

41    count(*) as orders_count

42    from <u>`Target_Company_Project.orders`</u>

43    group by 1,2

44    order by 1,2

45    Limit 10;
```

# Execution & Result:

Row	year ▼	month ▼	orders_count ▼
1	2016	9	4
2	2016	10	324
3	2016	12	1
4	2017	1	800
5	2017	2	1780
6	2017	3	2682
7	2017	4	2404
8	2017	5	3700
9	2017	6	3245
10	2017	7	4026

Note: Total output 25 rows, Limited by Just 10 for comfort view.

#### Insights:

- ->March 2018 (Orders: 7,211) had the highest order count, indicating a possible seasonal or promotional activity during that period.
- -> April 2018 and May 2018 also had high order counts (6,939 and 6,873, respectively), suggesting sustained customer engagement during the spring season.
- ->Starting from June 2018 (Orders: 6,167), there is a visible decline in the number of orders month-over-month, which continues into July (6,292) and August (6,512).

#### **Recommendation:**

- Identify factors contributing to the sharp decline after August.
- Examine if seasonal trends, competition, or operational issues played a role.
- Consider offering promotions or incentives to regain market share

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

**C.** 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

# Query

```
-----
56 select
57
    CASE
58
   WHEN extract(hour from order_purchase_timestamp) BETWEEN 0 and 6 THEN 'Dawn'
59 WHEN extract(hour from order_purchase_timestamp) BETWEEN 7 and 12 THEN
60
    'Mornings'
61 WHEN extract(hour from order_purchase_timestamp) BETWEEN 13 and 18 THEN
62
   'Afternoon'
63
    WHEN extract(hour from order_purchase_timestamp) BETWEEN 19 and 23 THEN 'Night'
64 END as Time_of_day_order_placed,
65 count(*) as No_of_orders_Placed,
66 DENSE_RANK() OVER (ORDER BY COUNT(*) DESC) AS Rank_by_time_of_Order_Placed
67 from `Target_Company_Project.orders`
68 group by 1
69 order by 2 desc;
```

#### **Execution and Result:**

Row	Time_of_day_order_placed ▼	No_of_orders_Placed 🕶	Rank_by_time_of_Order_Placed 🔻
1	Afternoon	38135	1
2	Night	28331	2
3	Mornings	27733	3
4	Dawn	5242	4

#### Insights:

By Analyzing the Brazilian customers mostly place their orders in **Afternoon** of the day with order in numbers (38,135), The above query execution results shows during afternoon is the highest order placing time whereas Dawn time is the lowest ordering time with orders in numbers are (5242).

Recommendations:

# Warehouse & Delivery Optimization:

More orders in the afternoon  $\rightarrow$  Ensure warehouses are well-staffed & delivery logistics are optimized during peak order hours.

Offer same-day or express delivery for afternoon and night orders.

Use AI-driven personalization to suggest products based on when customers typically shop. Offer limited-time "Night Owl" or "Early Bird" discounts to drive engagement during off-peak hours.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

# III. Evolution of E-commerce orders in the Brazil region:

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

## Query

```
70
     select
    count(*) as no_of_orders,
71
72
    extract(month from order_purchase_timestamp) as orders_month_In,
73
    customer_state
74
    from `Target_Company_Project.orders` o
    JOIN `Target_Company_Project.customers` c
75
76
    USING(customer_id)
77
    group by 3,2
78
    order by 1 desc
79 Limit 10;
```

# **Execution and Result:**

Row	no_of_orders ▼	orders_month_In	customer_state ▼
1	4982	8	SP
2	4632	5	SP
3	4381	7	SP
4	4104	6	SP
5	4047	3	SP
6	3967	4	SP
7	3357	2	SP
8	3351	1	SP
9	3012	11	SP
10	2357	12	SP

Note: Total output 322 rows, Limited by Just 10 for comfort view.

## Insights:



RR has the highest single-month order count with **4 orders**, indicating that April might be a strong season for this state.

Focus on RR:

 RR is a top-performing state, but its contributions vary across months.
 Strategies can be deployed to boost its performance in low-activity months like January and November.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

### III B. How are the customers distributed across all the states?

## Query:

```
86 select
87 customer_state,
88 extract(year from order_purchase_timestamp) as order_year_In,
89 extract(month from order_purchase_timestamp) as orders_month_In,
90 count(*) as no_of_orders
91 from `Target_Company_Project.orders` o
92 JOIN `Target_Company_Project.customers` c
93 ON o.customer_id = c.customer_id
94 group by 1,2,3
95 order by 4 desc
96 Limit 10;
```

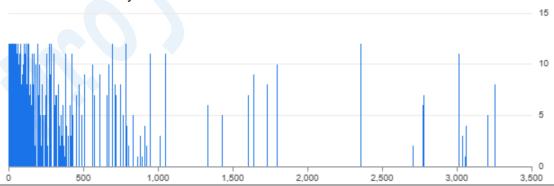
### **Execution & Result:**

1 SP 2018 8 2 SP 2018 5	3253 3207
2 SP 2018 5	3207
	0207
3 SP 2018 4	3059
4 SP 2018 1	3052
5 SP 2018 3	3037
6 SP 2017 11	3012
7 SP 2018 7	2777
8 SP 2018 6	2773
9 SP 2018 2	2703
10 SP 2017 12	2357

Note: Total output 565 rows, Limited by Just 10 for comfort view.

#### Insights:

orders\_month\_In by no\_of\_orders



#### Focus on Regional Growth:

States like RR with consistent activity could benefit from focused campaigns to strengthen engagement. States like TO, PB, and PI, which show limited activity, could be targeted for customer acquisition.

## Recommendations;

Ensure higher stock availability during peak order months.

Consider warehouse locations near high-order regions (e.g., SP, RJ, MG) to reduce delivery time and costs.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

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

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

You can use the "payment\_value" column in the payments table to get the cost of orders.

```
Query:
```

```
102 with percentage AS
103 (
104 select
105 *
106 from `Target_Company_Project.orders` o
107 JOIN `Target_Company_Project.payments` p
108 On o.order_id = p.order_id
109 where extract(year from order_purchase_timestamp) BETWEEN 2017 AND 2018
110 AND extract(month from order_purchase_timestamp) BETWEEN 1 AND 8
111 ),
112 percentage1 AS
1113
114
    select
115 extract(year from order_purchase_timestamp) as year,
116 ROUND(sum(payment_value),2) as cost
117 from percentage
118
     group by year
119 order by 1
120 ),
121 percentage2 AS
122 (
123 select
124 *, LEAD(cost) OVER(order by year) as nxt_year_cost
125
    from percentage1
126 )
1127 select *,round((nxt_year_cost - cost) / cost * 100,2) as percentage_increased
128 from percentage2;
```

Execution & Result:

Row	year ▼	cost ▼	next_year_cost ▼	percentage_increased 🔻
1	2017	3669022.12	8694733.84	136.98
2	2018	8694733.84	null	null

Insights:

By Analyzing the data it is found that to be in 2018 136.98% is increased compared to 2017.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

# IV B.Calculate the Total & Average value of order price for each state.

# Query:

```
132 select
133 customer_state,
134 ROUND(sum(price),2) as total_price_by_states,
135 ROUND(avg(price),2) as average_price_by_states,
136 from `Target_Company_Project.orders` o
137 JOIN `Target_Company_Project.order_items` oi
138 ON o.order_id = oi.order_id
139 JOIN `Target_Company_Project.customers` c
140 ON o.customer_id = c.customer_id
141 group by customer_state
142 order by 2
143 Limit 10;
```

## **Execution and Result:**

Row	customer_state ▼	total_price_by_states 🔻	average_price_by_states
1	RR	7829.43	150.57
2	AP	13474.3	164.32
3	AC	15982.95	173.73
4	AM	22356.84	135.5
5	RO	46140.64	165.97
6	TO	49621.74	157.53
7	SE	58920.85	153.04
8	AL	80314.81	180.89
9	RN	83034.98	156.97
10	PI	86914.08	160.36

Note: Total output 27 rows, Limited by Just 10 for comfort view.

#### Insights:

By Analyzing RR is the lowest in price by states and AP and AC is followed by them, Whereas seems that average price is equally share ratio except by AM state(135.5).

#### Recommendations.

Prioritize marketing efforts and pricing strategies in states with high total sales but low average prices (e.g., SP, MG, RS, SC). These states have strong sales volume but lower perunit pricing, indicating potential opportunities for price optimization or premium product offerings.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

# IV C. Calculate the Total & Average value of order freight for each state.

# Query:

```
147 select
148 customer_state,
149 ROUND(sum(freight_value),2) as total_freight_price_by_states,
150 ROUND(avg(freight_value),2) as average_freight_price_by_states,
151 from `Target_Company_Project.orders`o
152 JOIN `Target_Company_Project.order_items`oi
153 ON o.order_id = oi.order_id
154 JOIN `Target_Company_Project.customers`c
155 ON o.customer_id = c.customer_id
156 group by customer_state
157 order by 2
158 Limit 10;
```

#### Execution and Result:

Row	customer_state ▼	total_freight_price_by_states 🔻	average_freight_price_by_states
1	RR	2235.19	42.98
2	AP	2788.5	34.01
3	AC	3686.75	40.07
4	AM	5478.89	33.21
5	RO	11417.38	41.07
6	TO	11732.68	37.25
7	SE	14111.47	36.65
8	AL	15914.59	35.84
9	RN	18860.1	35.65
10	MS	19144.03	23.37

Note: Total output 27 rows, Limited by Just 10 for comfort view.

# Insights:

SP State leads significantly in total freight price with **718,723.07**, making up the majority share. However, it has the **lowest average freight price** (**15.15**), indicating a large number of smaller shipments.

PE State has the **highest average freight price** (32.92), indicating higher shipping costs, Recommendations:

Based on the data provided, a recommendation would be to focus on optimizing freight pricing for the states with the highest total freight prices, particularly SP, RJ, and MG, as these states have the largest total freight amounts. While their average freight prices are lower compared to others, these states represent a significant portion of the total freight volume.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

# V.Analysis based on sales, freight and delivery time.

A.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. "Do this in a single query." You can calculate the delivery time and the difference between the estimated & actual delivery date using the given formula:

time\_to\_deliver = order\_delivered\_customer\_date - order\_purchase\_timestamp

diff\_estimated\_delivery = order\_estimated\_delivery\_date - order\_delivered\_customer\_date

# Query:

```
159 select
160 order_id,
161 TIMESTAMP_DIFF(order_delivered_customer_date,order_purchase_timestamp,DAY) as
162 Committed_time_to_deliver,
163 TIMESTAMP_DIFF(order_delivered_customer_date,order_estimated_delivery_date,DAY)
164 as diff_estimated_delivery
165 from `Target_Company_Project.orders`
166 where order_status = 'delivered'
167 order by Committed_time_to_deliver desc
168 Limit 10;
```

## **Execution and Result:**

Row	order_id ▼	Committed_time_to_deliver ▼	diff_estimated_delivery 🔻
1	ca07593549f1816d26a572e06	209	181
2	1b3190b2dfa9d789e1f14c05b	208	188
3	440d0d17af552815d15a9e41a	195	165
4	0f4519c5f1c541ddec9f21b3bd	194	161
5	2fb597c2f772eca01b1f5c561b	194	155
6	285ab9426d6982034523a855f	194	166
7	47b40429ed8cce3aee9199792	191	175
8	2fe324febf907e3ea3f2aa9650	189	167
9	2d7561026d542c8dbd8f0daea	188	159
10	c27815f7e3dd0b926b5855262	187	162

Total output 96,478 rows, Limited by Just 10 for comfort view.

Committed\_time\_to\_delivery is order in desc

Insights:

By Analyzing the order delivery committed date vs estimated delivery date the below is the Table of numbers in facts

Delivery	<b>Count of Delivery Remarks</b>	%
Early	87182	90%
Late	6534	7%
On Time	2754	3%
<b>Grand Total</b>	96470	100%

Recommendations:

Logistics Team needs to improve to cut-off delivery time deficit of 7% across all orders.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

**V B.**Find out the top 5 states with the highest & lowest average freight value. Highest Average Freight Value;

## Query 1:

```
177 select
178 customer_state,
179 ROUND(avg(freight_value),2) as High_avg_freight_price,
180 from <u>`Target_Company_Project.orders'</u> o
181 JOIN <u>`Target_Company_Project.order_items'</u> oi
182 ON o.order_id = oi.order_id
183 JOIN <u>`Target_Company_Project.customers'</u> c
184 ON o.customer_id = c.customer_id
185 group by customer_state
186 order by 2 desc
187 LIMIT 5
```

#### **Execution and Result:**

Row	customer_state ▼	High_avg_freight_price ▼
1	RR	42.98
2	PB	42.72
3	RO	41.07
4	AC	40.07
5	PI	39.15

#### Query 2: Lowest Average Freight Value.

```
191 select
192 customer_state,
193 ROUND(avg(freight_value),2) as Low_average_freight_price,
194 from `Target_Company_Project.orders` o
195 JOIN `Target_Company_Project.order_items` oi
196 ON o.order_id = oi.order_id
197 JOIN `Target_Company_Project.customers` c
198 ON o.customer_id = c.customer_id
199 group by customer_state
200 order by 2
201 LIMIT 5
```

#### **Execution and Result:**

Row /	customer_state ▼	Low_avgerage_freight_price 🔻
1	SP	15.15
2	PR	20.53
3	MG	20.63
4	RJ	20.96
5	DF	21.04

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

## V.B Combined:

```
Query 3:
176 (
177 select
178
    customer_state,
179 ROUND(avg(freight_value),2) as High_to_avg_freight_price,
180 from 'Target_Company_Project.orders' o
181 INNER JOIN 'Target_Company_Project.order_items' oi
182 ON o.order_id = oi.order_id
183 INNER JOIN 'Target_Company_Project.customers' c
184 ON o.customer_id = c.customer_id
185 group by customer_state
186 order by 2 desc
187 LIMIT 5
188 )
189 UNION ALL
190 (
191 select
192 customer_state,
193 ROUND(avg(freight_value),2) as High_to_Low_avg_freight_price,
194 from `Target_Company_Project.orders` o
195 INNER JOIN 'Target_Company_Project.order_items' oi
196 ON o.order_id = oi.order_id
197 INNER JOIN 'Target_Company_Project.customers' c
198 ON o.customer_id = c.customer_id
199 group by customer_state
200 order by 2
201 LIMIT 5
202 );
```

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

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

# Insights:

Query1: Found Top Five States for which Highest Average Freight Value and the Lowest Average Freight Value across the states,

## Recommendations:

Focus on optimizing operational costs in states with high average freight prices, such as RR, PB, and RO, to enhance profitability while maintaining service quality.

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

# Query:

#### **Execution and Result:**

Row	High_Delivery_Time ▼	Low_Delivery_State ▼
1	AL	DF
2	AP	PR
3	AM	MG
4	RR	SP
5	PA	SC

## Insights:

States with high delivery times (e.g., AL, AP, AM) are geographically distant or face logistical challenges compared to low-delivery-time states like DF and SP.

# Recommendations:

Invest in optimizing supply chain infrastructure and last-mile delivery strategies for high-delivery-time states to reduce delays and improve customer satisfaction.

Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

**V D.**Find out the top 5 states where the order delivery is really fast as compared to the estimated date of delivery. You can use the difference between the averages of actual & estimated delivery date to figure out how fast the delivery was for each state.

# Query:

```
217 SELECT
218 customer_state AS state,
219 ROUND(SUM(TIMESTAMP_DIFF(order_delivered_customer_date, order_purchase_timestamp,
220 DAY))/COUNT(ORDER_ID), 2) AS average_time_for_delivery,
221 ROUND(SUM(TIMESTAMP_DIFF(order_estimated_delivery_date, order_purchase_timestamp,
222 DAY))/COUNT(ORDER_ID), 2) AS average_estimated_delivery_time,
223 FROM `Target_Company_Project.orders` o
224 JOIN `Target_Company_Project.customers` c
225 ON o.customer_id=c.customer_id
226 WHERE order_status='delivered'
227 GROUP BY customer_state
228 ORDER BY (average_time_for_delivery-average_estimated_delivery_time)
229 Limit 5;
```

## **Execution and Result:**

Row	state ▼	average_time_for_delivery 🔻	average_estimated_delivery_time 🔻
1	AC	20.64	40.73
2	RO	18.91	38.39
3	AP	26.73	45.87
4	AM	25.99	44.92
5	RR	28.98	45.63

#### Insights:

States like SP, RJ, and PR have significantly lower actual and estimated delivery times, indicating efficient logistics, while states like RR and AP show higher delivery times, suggesting logistical challenges.

## Recommendations:

Prioritize addressing logistical inefficiencies and infrastructure improvements in high-delivery-time states like RR and AP to align closer to the efficiency levels seen in SP and RJ. Graph:

average\_time\_for\_delivery, average\_estimated\_delivery\_time by state



Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

# VI. Analysis based on the payments:

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

# Query:

```
246 select
247 payment_type,
248 extract(year from order_purchase_timestamp) as year,
249 extract(month from order_purchase_timestamp) as month,
250 count(o.order_id) as number_of_orders_placed
251 from `Target_Company_Project.payments` p
252 JOIN `Target_Company_Project.orders` o
253 ON p.order_id = o.order_id
254 group by payment_type, year, month
255 order by 2,3
256 Limit 10;
```

## **Execution and Result:**

1 credit_card 2016 9 2 debit_card 2016 10 3 credit_card 2016 10						
2 debit_card 2016 10 3 credit_card 2016 10	placed 🤟	number_of_orders_plac	month ▼	year ▼	payment_type ▼	Row
3 credit_card 2016 10	3		9	2016	credit_card	1
	2		10	2016	debit_card	2
4 youcher 2016 10	254		10	2016	credit_card	3
4 Voluciei 2010 10	23		10	2016	voucher	4
5 UPI 2016 10	63		10	2016	UPI	5
6 credit_card 2016 12	1		12	2016	credit_card	6
7 voucher 2017 1	61		1	2017	voucher	7
8 UPI 2017 1	197		1	2017	UPI	8
9 credit_card 2017 1	583		1	2017	credit_card	9
10 debit_card 2017 1	9		1	2017	debit_card	10

Total output 90 rows, Limited by Just 10 for comfort view.

# Insights:

Credit cards dominate as the most preferred payment type, with a consistent and significant increase in orders over time, while other methods like debit cards and vouchers remain less utilized.

#### Recommendations:

Focus on incentivizing underutilized payment methods like UPI and vouchers through promotions or discounts to diversify payment preferences and enhance customer convenience.

year, month, number\_of\_orders\_placed by payment\_type



Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

**VI B.** Find the no. of orders placed on the basis of the payment installments that have been paid.

Query:

```
198 select
199 count(distinct order_id) as number_of_orders,
200 payment_installments
201 from `Target_Company_Project.payments`
202 where payment_installments >= 1
203 group by payment_installments
204 LIMIT 10;
```

**Execution and Result:** 

Row	number_of_orders	payment_installment
1	49060	1
2	12389	2
3	10443	3
4	7088	4
5	5234	5
6	3916	6
7	1623	7
8	4253	8
9	644	9
10	5315	10

Total output 23 rows, Limited by Just 10 for comfort view.

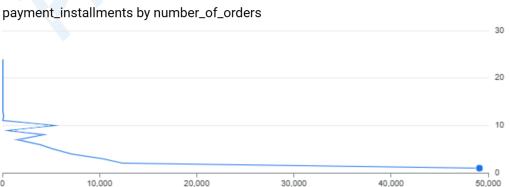
Insights:

The majority of orders are made with a single payment installment, while orders with higher installments decrease significantly, indicating a preference for simpler payment terms.

Recommendations:

Offer targeted promotions or interest-free installment plans to encourage customers to opt for higher installment options, potentially increasing the average order value.

Graph:



Assuming you are a data analyst/ scientist at Target, you have been assigned the task of analyzing the given dataset to extract valuable insights and provide actionable recommendations.

- ➤ Project Target Done by Mudassir Hasan N on 28-01-2025 @ 05:10 PM.
- > Project Target was thoroughly analyze and given the best and comprehensive queries to extract the data. To optimize the space and time for the same.
- Project Target in each question and answers below to that insights and recommendations are given based on the available data.