

Target Answer Sheet

1. Import the dataset and do usual exploratory analysis steps like checking the structure & characteristics of the dataset
 1. Data type of columns in a table
 2. Time period for which the data is given
 3. Cities and States covered in the dataset

Solution:

Que 1 – Part 1

The screenshot shows the Google BigQuery web interface. At the top, there's a search bar and navigation icons. Below that, a blue banner indicates the user is not logged in. The main area shows a SQL query editor with the following query:

```
1 select data_type from `scaler-target-da.target.INFORMATION_SCHEMA.COLUMNS` where table_name = 'customers'
```

Below the query editor, the 'Query results' section is visible. It includes tabs for 'JOB INFORMATION', 'RESULTS', 'JSON', 'EXECUTION DETAILS', and 'EXECUTION GRAPH'. The 'RESULTS' tab is selected, showing a table with 5 rows and 2 columns: 'Row' and 'data_type'.

Row	data_type
1	STRING
2	STRING
3	INT64
4	STRING
5	STRING

Que 1 – Part 2

Search Products, resources, docs (/)

full BigQuery experience.[Learn more](#)

DISMISS

UPGRADE

orders

Que 1- Part 2, co... ion

Que 1 - Part 3, Co...ion

*Unsaved query 5

*Unsaved c

RUN

SAVE

SHARE

SCHEDULE

MORE

✓ This query will process 15.78 MB when run.

1 -- Que 1 - Part 3, solution

2 select count(distinct geolocation_state) as total_states, count(distinct geolocation_city) as total_cities from `target`.

3 geolocation`

Press Alt+F1 for accessibility options.

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

EXECUTION GRAPH

PREVIEW

Row	total_states	total_cities
1	27	8011

PERSONAL HISTORY

PROJECT HISTORY

REFRESH

^

Que 1 - Part 3

arch

Products, resources, docs (/)

full BigQuery experience.[Learn more](#)

DISMISS

UPGRADE

orders

Que 1-Part 2, co... ion

Que 1 - Part 3, Co... ion

*Unsaved query 5

*Unsaved c

RUN

SAVE

SHARE

SCHEDULE

MORE

This query will process 776.88 KB when run.

```
1 -- Que 1 - Part 2, solution
2 select min(order_purchase_timestamp) as start_date , max(order_purchase_timestamp) as end_date FROM scaler-target-da.`target.
3 orders`
4
```

Press Alt+F1 for accessibility options

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

EXECUTION GRAPH

PREVIEW

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

PERSONAL HISTORY

PROJECT HISTORY

REFRESH

2. In-depth Exploration:

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

Que 2 – Part 1

DISMISS **UPGRADE**

```
1 -- Que 2 - Part 1, Complete solution
2
3 select extract(year from order_purchase_timestamp) as year,
4 extract(month from order_purchase_timestamp) as month, count(distinct order_id) as count_order
5 from target.orders
6 group by 1, 2
7 order by 1 desc, 2
8
```

Query results

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS	EXECUTION GRAPH	PREVIEW
Row	year	month	count_order			
1	2018	1	7269			
2	2018	2	6728			
3	2018	3	7211			
4	2018	4	6939			


PERSONAL HISTORY PROJECT HISTORY [REFRESH](#)


Que 2 – Part 2


|| BigQuery experience. [Learn more](#)


DISMISS


UPGRADE

 RUN

 SAVE

 SHARE

 SCHEDULE

 MORE

This query will process 7.21 MB when run.

```
3 CASE
4 WHEN EXTRACT(HOUR from ord.order_purchase_timestamp) >= 4 and EXTRACT(HOUR from ord.order_purchase_timestamp) < 7 THEN
5   "Dawn"
6 WHEN EXTRACT(HOUR from ord.order_purchase_timestamp) >= 7 and EXTRACT(HOUR from ord.order_purchase_timestamp) < 12 THEN
7   "Morning"
8 WHEN EXTRACT(HOUR from ord.order_purchase_timestamp) >= 12 and EXTRACT(HOUR from ord.order_purchase_timestamp) < 17 THEN
9   "Afternoon"
10 WHEN EXTRACT(HOUR from ord.order_purchase_timestamp) >= 17 and EXTRACT(HOUR from ord.order_purchase_timestamp) < 21 THEN
11   "Evening"
12 ELSE "Night"
13 END TIME
14 FROM `target.customers` as cust join
15 `target.orders` as ord
16 on
17 cust.customer_id=ord.customer_id)abc
18 group by TIME
19 Order by ORDERS desc
```

Press Alt+F1 for accessibility options.

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

EXECUTION GRAPH

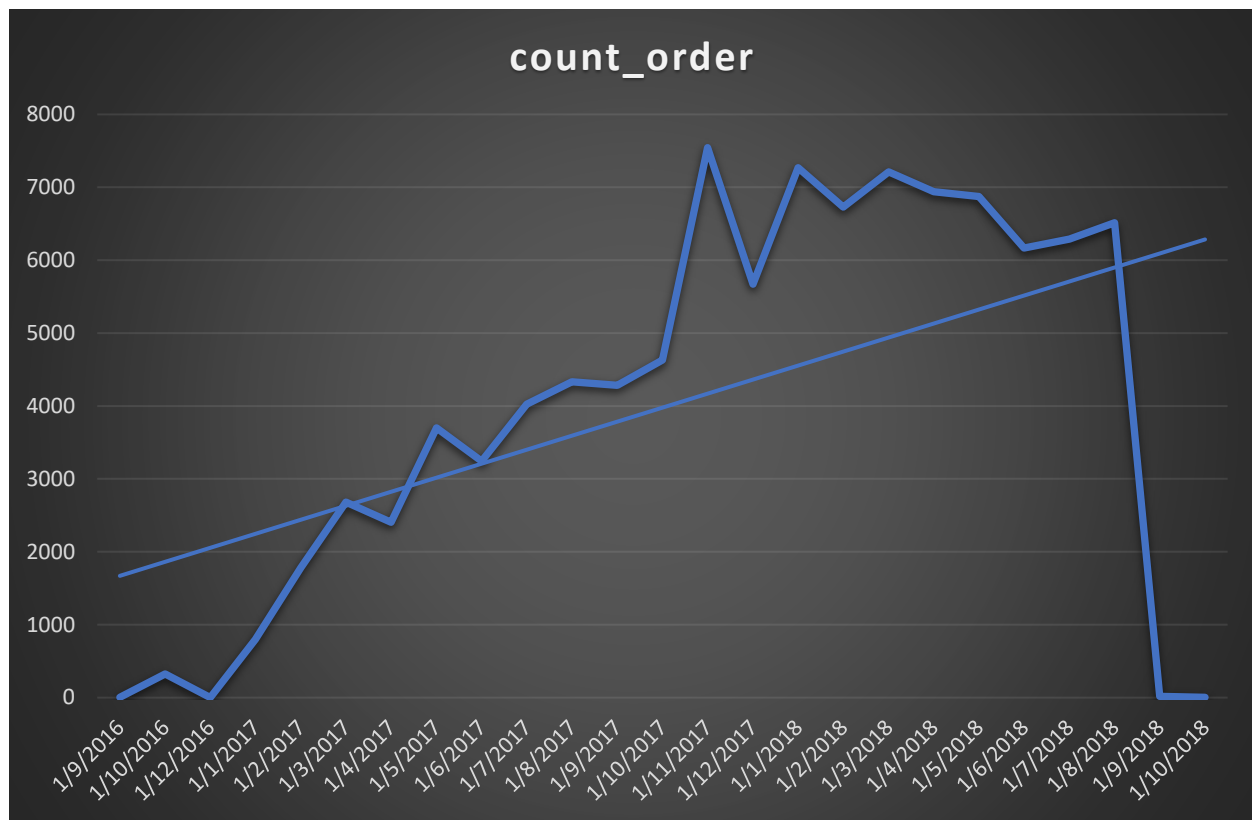
PREVIEW

row	TIME	ORDERS	
1	Afternoon	32211	
2	Evening	24094	

PERSONAL HISTORY

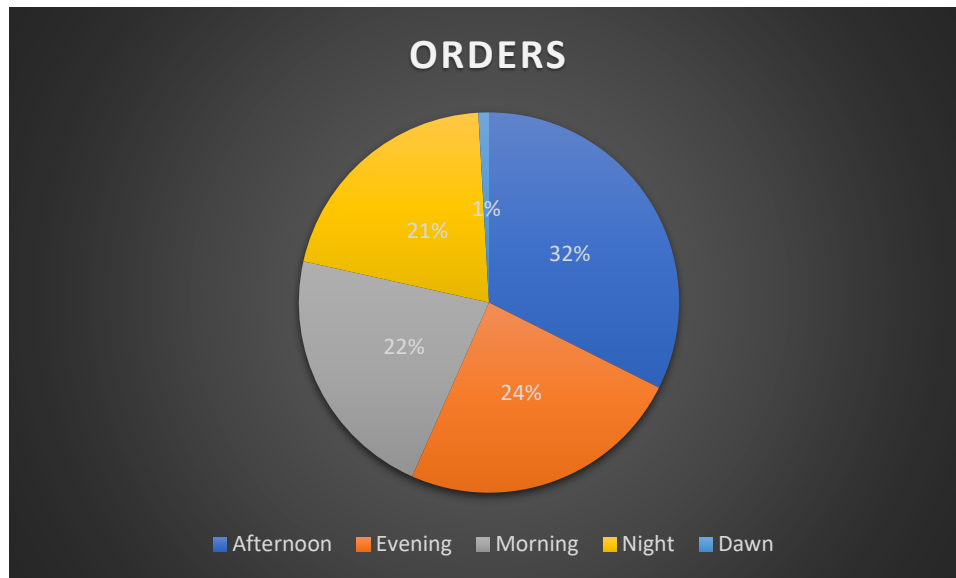
PROJECT HISTORY

REFRESH



With the help of above graph and trendline we can clearly determine a growing trend in e-commerce in Brazil from Dec, 2016 till Aug, 2018, with peaking in Nov, 2017 and a drastic decline in Sep, 2018.

Also, to note that there is no such seasonality found.



Also, from the above chart it is clearly indicated that maximum customers, i.e. (32211) are buying in afternoon time, followed by evening. And only a handful of users i.e. only 896 are ordering at dawn.

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

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

Que 3 – Part 1

arch
Products, resources, docs (/)

full BigQuery experience.
[Learn more](#)
DISMISS
UPGRADE

1, Co...ion
*Que 6 - Part 1, Co...ion
Que 4 - Part 2, Co...ion
*Que 3 - Part 1, Co...ion
*Que

RUN
SAVE
SHARE
SCHEDULE
MORE
Query completed.

```

1 -- Que 3 - Part 1, Complete solution
2
3 with abc as (select cu.customer_state as cust_state, extract(year from o.order_purchase_timestamp) as order_year, extract
4 (month from o.order_purchase_timestamp) as order_month, o.order_id as order_id from `target.orders` as o join `target.
5 customers` as cu on o.customer_id = cu.customer_id)
6
7 select cust_state, order_year, order_month, count(order_id) as count_cus from abc
8 group by 1, 2, 3
9 order by 2, 3

```

Press Alt+F1 for accessibility options.

Query results
SAVE RESULTS
EXPLORE DATA

JOB INFORMATIONRESULTSJSONEXECUTION DETAILSEXECUTION GRAPHPREVIEW

Row	cust_state	order_year	order_month	count_cus
1	RR	2016	9	1
2	RS	2016	9	1
3	SP	2016	9	2
4	SP	2016	10	113

Results per page: 50
1 - 50 of 565

PERSONAL HISTORYPROJECT HISTORYREFRESH

Que 3 – Part 2

Press Alt+F1 for accessibility options

Results per page: 50 ▼ 1 – 21 of 21 |< < > >|

 \wedge

Que 4 – Part 2

Press Alt+F1 for accessibility options

Results per page: 50 ▼ 1 – 27 of 27 |< < > >|

^



5. Analysis on sales, freight and delivery time

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

Que 5 – Part 1

Search Products, resources, docs (/)

full BigQuery experience.[Learn more](#)

DISMISS

UPGRADE

*Que 6 - Part 1, Co...ion

×

Que 4 - Part 2, Co...ion

×

*Que 3 - Part 1, Co...ion

×

Que 5 - Part 1, Co...ion

+

⋮

RUN

SAVE

SHARE

SCHEDULE

MORE

✓ This query will process 2.25 MB when run.

```
1 -- Que 5 - Part 1, Complete solution
2
3 select DATE_DIFF(order_delivered_customer_date, order_purchase_timestamp, day) as actual_days , DATE_DIFF(
4 order_estimated_delivery_date, order_purchase_timestamp, day) as estimate_days from `target.orders`
5 where order_purchase_timestamp is not NULL and
6 order_delivered_customer_date is not NULL and
7 order_estimated_delivery_date is not NULL
8 order by 1, 2 desc
```

Press Alt+F1 for accessibility options

Query results

SAVE RESULTS

EXPLORE DATA

⌵

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

EXECUTION GRAPH

PREVIEW

Row	actual_days	estimate_da...
1	0	28
2	0	26
3	0	20
4	0	17

Results per page: 50

1 - 50 of 96476

⏪ ⏩ ⏴ ⏵

PERSONAL HISTORY

PROJECT HISTORY

REFRESH

⏶

Que 5 – Part 2

Search Products, resources, docs (/)

full BigQuery experience.[Learn more](#)

DISMISSUPGRADE

<2 - C... ion ×

Que 5 - Part 2, C... ion ×

*Unsaved query12 ×

*Unsaved query13 ×

*Unsaved quer

>+⋮

RUNSAVESHARESCHEDULEMORE

✓ This query will process 2.25 MB when run.

```
1 -- Que 5, Part 2 , create column
2
3 select DATE_DIFF(order_delivered_customer_date, order_purchase_timestamp, DAY) as time_to_delivery,
4 DATE_DIFF(order_delivered_customer_date, order_estimated_delivery_date, DAY) as diff_estimated_delivery from `target.orders`
5 where order_purchase_timestamp is not NULL and
6 order_delivered_customer_date is not NULL and
7 order_estimated_delivery_date is not NULL
```

Press Alt+F1 for accessibility options.

Query results

SAVE RESULTSEXPLORE DATA

JOB INFORMATIONRESULTSJSONEXECUTION DETAILSEXECUTION GRAPHPREVIEW

Row	time_to_deli...	diff_estimat...
1	30	12
2	30	-28
3	35	-16
4	30	-1

Results per page: 501 - 50 of 96476

PERSONAL HISTORYPROJECT HISTORYREFRESH

Que 5 – Part 3

arch

Products, resources, docs (/)

full BigQuery experience.[Learn more](#)

DISMISS

UPGRADE

Que 5, Part 4, Su... ery ▾ ×

Que 5, Part 4, Su... ery ▾ ×

*Unsaved query14 ▾ ×

Que 5 - Part 3, Co...ion ▾ ×

RUN

SAVE ▾

SHARE ▾

SCHEDULE ▾

MORE ▾

This query will process 25.21 MB when run.

```
1 -- Que 5, Part 3, Complete solution
2
3 select gs.geolocation_state, avg(o2.freight_value) as mean_f_val , avg(DATE_DIFF(o1.order_delivered_customer_date, o1.
4 order_purchase_timestamp, day)) as time_to_delivery,
5 avg(DATE_DIFF(o1.order_estimated_delivery_date, o1.order_delivered_customer_date, day)) as diff_estimated_delivery from
6 `target.orders`
7 as o1 join `target.order_items` as o2 on o1.order_id = o2.order_id join `target.sellers` as s1 on o2.seller_id = s1.seller_id
8 join `target.geolocation` as gs on s1.seller_zip_code_prefix = gs.geolocation_zip_code_prefix
9 where o1.order_purchase_timestamp is not NULL and
10 o1.order_delivered_customer_date is not NULL and
11 o1.order_estimated_delivery_date is not NULL
12 group by gs.geolocation_state
```

Press Alt+F1 for accessibility options

Query results

SAVE RESULTS ▾

EXPLORE DATA ▾

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

EXECUTION GRAPH

PREVIEW

Row	geolocation_state	mean_f_val	time_to_deli...	diff_estimat...
1	RJ	18.9546357...	11.2209267...	11.5711227...
2	SP	18.3960458...	12.2038645...	10.4156183...
3	MG	22.7555594...	12.1579605...	12.3230782...
4	SC	27.0150932...	14.0777848...	13.4987081...

Results per page: 50 ▾ 1 – 21 of 21 |< < > >|

PERSONAL HISTORY

PROJECT HISTORY

REFRESH

Que 5 – Part 4 – Subpart 1 – Asc

Search Products, resources, docs (/)

full BigQuery experience.[Learn more](#)

DISMISSUPGRADE

Que 6 - Part 2, Co...ion ✕

*Unsaved query 7 ✕

*Que 5 - Part 4 - S... ion ✕

*Que 5 - Part 4 - S... ion ✕

+

⋮

RUN

SAVE

SHARE

SCHEDULE

MORE

✓ This query will process 16.08 MB when run.

```
1 -- Que 5 - Part 4, Sub part 1, highest freight value asc, partial solution
2
3 select ge.geolocation_state, avg(it.freight_value) as avr from `target.order_items` as it
4 join `target.sellers` as se on it.seller_id = se.seller_id join
5 `target.geolocation` as ge on se.seller_zip_code_prefix = ge.geolocation_zip_code_prefix
6 group by ge.geolocation_state
7 order by avr
8 limit 5
9
10 -- order by freight_value desc
11 --limit 5
```

Press Alt+F1 for accessibility options

Query results

SAVE RESULTSEXPLORE DATA

JOB INFORMATIONRESULTSJSONEXECUTION DETAILSEXECUTION GRAPHPREVIEW

Row	geolocation_state	avr
1	RN	15.9318776...
2	SP	18.4366124...
3	RJ	18.9323516...
4	DF	18.9932739...
5	PR	22.1073013...

PERSONAL HISTORYPROJECT HISTORY

REFRESH

Que 5 – Part 4 – Subpart 1 – Desc

Products, resources, docs (/)

DISMISS
UPGRADE

full BigQuery experience.[Learn more](#)

Que 6 - Part 2, Co... ion
*Unsaved query 7
*Que 5 - Part 4 - S... ion
*Que 5 - Part 4 - S... ion

Que 5 - Part 4 - Sub part 2, Complete solution

RUN
SAVE
SHARE
SCHEDULE
MORE

```

1 -- Que 5 - Part 4, Sub part 1, highest freight value desc, partial solution
2
3 select ge.geolocation_state, avg(it.freight_value) as avr from `target.order_items` as it
4 join `target.sellers` as se on it.seller_id = se.seller_id join
5 `target.geolocation` as ge on se.seller_zip_code_prefix = ge.geolocation_zip_code_prefix
6 group by ge.geolocation_state
7 order by avr desc
8 limit 5

```

Press Alt+F1 for accessibility options

Query results

SAVE RESULTS
EXPLORE DATA

JOB INFORMATION
RESULTS
JSON
EXECUTION DETAILS
EXECUTION GRAPH
PREVIEW

Row	geolocation_state	avr
1	CE	54.4449517...
2	RO	50.3200469...
3	PI	36.9433333...
4	PB	34.6940991...
5	AC	32.84

PERSONAL HISTORY
PROJECT HISTORY

REFRESH

Que 5 – Part 4 – Subpart 2 – High

Products, resources, docs (/)

DISMISS
UPGRADE

full BigQuery experience.[Learn more](#)

2 - C... ion
Que 5 - Part 2, C... ion
Que 5, Part 4, Su... ery
Que 5, Part 4, Su... ery
*Unsav

RUN
SAVE
SHARE
SCHEDULE
MORE

This query will process 20.15 MB when run.

```

1 -- Que 5, Part 4, Sub Part 2, Highest time to delivery
2
3 select gen.geolocation_state, avg(DATE_DIFF(org.order_delivered_customer_date, org.order_purchase_timestamp, day)) as
   time_to_delivery from `target.orders`
4 as org join `target.customers` as cu on cu.customer_id = org.customer_id join
5 `target.geolocation` as gen on gen.geolocation_zip_code_prefix = cu.customer_zip_code_prefix
6 where org.order_purchase_timestamp is not NULL and
7 org.order_delivered_customer_date is not NULL
8 group by 1
9 order by 1
10 limit 5

```

Press Alt+F1 for accessibility options

Query results

SAVE RESULTS
EXPLORE DATA

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

EXECUTION GRAPH

PREVIEW

Row	geolocation_state	time_to_deli...
1	AC	20.5083732...
2	AL	23.1435278...
3	AM	24.6511967...
4	AP	27.9912262...
5	BA	18.2320166...

PERSONAL HISTORY

PROJECT HISTORY

REFRESH

Que 5 – Part 4 _ Subpart 2 – Low

DISMISS **UPGRADE**

✓ This query will process 20.15 MB when run.

Press Alt+F1 for accessibility options

[↓ SAVE RESULTS](#)
[📈 EXPLORE DATA](#)
[↕](#)

PERSONAL HISTORY PROJECT HISTORY REFRESH ^

Que 5 – Part 4 – Subpart 3 – Fast delivery

Products, resources, docs (/)

DISMISS
UPGRADE

full BigQuery experience.[Learn more](#)

*Que 3 - Part 1, Co...ion
Que 5 - Part 1, Co...ion
*Unsaved query 4
Que 5 - Part 4 - S...ion

RUN
SAVE
SHARE
SCHEDULE
MORE

This query will process 20.91 MB when run.

```

1 -- Que 5 - Part 3, Complete solution
2
3 select ge.geolocation_state as state, DATE_DIFF(order_delivered_customer_date, order_purchase_timestamp, day) as actual_days
4   , DATE_DIFF( order_estimated_delivery_date, order_purchase_timestamp, day) as estimate_days from `target.orders` as o join
5   `target.customers` as cu on o.customer_id = cu.customer_id join `target.geolocation` as ge on cu.customer_zip_code_prefix =
6   ge.geolocation_zip_code_prefix
7 where order_purchase_timestamp is not NULL and
8        order_delivered_customer_date is not NULL and
9        order_estimated_delivery_date is not NULL
10 group by 1, 2, 3
11 order by 2 desc
12 limit 5

```

Press Alt+F1 for accessibility options

Query results
SAVE RESULTS
EXPLORE DATA

JOB INFORMATION
RESULTS
JSON
EXECUTION DETAILS
EXECUTION GRAPH
PREVIEW

Row	state	actual_days	estimate_da...
1	ES	209	28
2	RJ	208	19
3	PA	195	30
4	SE	194	28
5	PI	194	32

PERSONAL HISTORY
PROJECT HISTORY
REFRESH

Que 5 – Part 4 – Subpart 3 – Slow delivery

full BigQuery experience.[Learn more](#)

DISMISSUPGRADE

<ion ×Que 5 - Part 1, Co...ion ×*Unsaved query 4 ×*Que 5 - Part 4 - S... ion ×Que 5 - Part 4 - S >+⋮

RUNSAVESHARESCHEDULEMORE

```
1 -- Que 5 - Part 4 - Sub part 3, Lowest time, Complete solution
2
3 select ge.geolocation_state as state, DATE_DIFF(order_delivered_customer_date, order_purchase_timestamp, day) as actual_days
4 , DATE_DIFF( order_estimated_delivery_date, order_purchase_timestamp, day) as estimate_days from `target.orders` as o join
5 `target.customers` as cu on o.customer_id = cu.customer_id join `target.geolocation` as ge on cu.customer_zip_code_prefix =
6 ge.geolocation_zip_code_prefix
7 where order_purchase_timestamp is not NULL and
8 order_delivered_customer_date is not NULL and
9 order_estimated_delivery_date is not NULL
10 group by 1, 2, 3
11 order by 2
12 limit 5
```

Press Alt+F1 for accessibility options.

Query results

SAVE RESULTSEXPLORE DATA↕

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS	EXECUTION GRAPH	PREVIEW
Row	state	actual_days	estimate_da...			
1	SP	0	8			
2	BA	0	28			
3	RJ	0	10			
4	SP	0	12			
5	SP	0	10			

PERSONAL HISTORYPROJECT HISTORY

REFRESH^

Insights

Products, resources, docs (/)

BigQuery experience. [Learn more](#) DISMISS UPGRADE

Query 4 - S... ion X *Unsaved query24 X *Unsaved query29 X *Unsaved query39 X *Unsaved query4 > +

RUN SAVE SHARE SCHEDULE MORE Query completed.

```

1 select p.product_category, DATE_DIFF(order_delivered_customer_date, order_purchase_timestamp, day) as actual_days, DATE_DIFF
  ( order_estimated_delivery_date, order_purchase_timestamp, day) as estimate_days from `target.orders` as o join `target.
order_items` as oi on o.order_id = oi.order_id join `target.products` as p on oi.product_id = p.product_id
2 where order_purchase_timestamp is not NULL and
3 order_delivered_customer_date is not NULL and
4 order_estimated_delivery_date is not NULL
5 order by 2 desc

```

Press Alt+F1 for accessibility options

Query results SAVE RESULTS EXPLORE DATA

JOB INFORMATION RESULTS JSON EXECUTION DETAILS EXECUTION GRAPH PREVIEW

row	product_category	actual_days	estimate_da...
1	automotive	209	28
2	Cool Stuff	208	19
3	Games consoles	195	30
4	Furniture office	194	39

Results per page: 50 1 - 50 of 110196

PERSONAL HISTORY PROJECT HISTORY REFRESH

It is clear that the top 5 products which incurs maximum time are from the Category:

- Automobile
- Cool Stuff
- Games consoles
- Furniture office
- Musical Instruments

Also, the products which are delivered with in one day are from the Category:

- Babies
- Housewares
- Computer accessories
- Toys
- Watches present

The quickest order delivering states are **Sao Paulo** and **Rio de Janeiro**, with maximum actual delivery time is **Espirito Santo** from South Brazil.

Top 5 states with highest average freight value are:

- Rio Grande do Norte
- Sao Paulo
- Rio de Janeiro
- Federal District
- Parana

Top 5 states with lowest average freight value are:

- Ceara
- Piaui
- Parabia
- Acre
- Espirito Santo

Top 5 states with highest time to delivery are:

- Espirito Santo
- Rio de Janerio
- Para
- Southeastern region of Brazil
- Piaui

Top 5 states with lowest time to delivery are:

- Sao Paulo
- Bahia
- Rio de Janerio
- Parana
- Santa Catarina

Top 5 states with highest time to delivery are:

- Acre
- Federative units of Brazil
- Amazonas
- Amapa
- Bahia

Top 5 states with lowest time to delivery are:

- Sao Paulo

Search Products, resources, docs (/)

Get full BigQuery experience. [Learn more](#)

DISMISS **UPGRADE**

< ion x *Que 3 - Part 2, Co...ion x *Unsaved query17 x Que 1 - Part 1, Co...ion x ***Que 6 - Part 1,** > + :

RUN **SAVE** **SHARE** **SCHEDULE** **MORE** This query will process 8.47 MB when run.

```

1 -- Que 6 - Part 1, Complete solution|
2
3 with base as (select p.payment_type as payment_type, extract(year from o.order_purchase_timestamp) as order_year, extract(
4   (month from o.order_purchase_timestamp) as order_month, o.order_id as order_id from `target.orders` as o
5   join `target.payments` as p on p.order_id = o.order_id)
6 select payment_type, order_year, order_month, count(order_id) from base
7 group by 1, 2, 3
8 order by 1, 2, 3
  
```

Press Alt+F1 for accessibility options.

Query results

SAVE RESULTS **EXPLORE DATA**

JOB INFORMATION	RESULTS	JSON	EXECUTION DETAILS	EXECUTION GRAPH	PREVIEW
Row	payment_type	order_year	order_month	f0_	
1	UPI	2016	10	63	
2	UPI	2017	1	197	
3	UPI	2017	2	398	
4	UPI	2017	3	590	

Results per page: 50 1 – 50 of 90 |< < > >|

PERSONAL HISTORY **PROJECT HISTORY** **REFRESH**

Que 6 – Part 2

Search Products, resources, docs (/)

Dismiss

Upgrade

Get the full BigQuery experience.[Learn more](#)

Que 1 - Part 2, Co... ion X

Que 1 - Part 3, Co... ion X

*Unsaved query 5 X

Que 6 - Part 2, Co... ion X

+

⋮

Run

Save

Share

Schedule

More

✓ This query will process 1.91 MB when run.

```
1 -- Que 6 - part 2, solution
2
3 select count(*), payment_type from `target.payments`
4 where payment_installments = 1
5 group by payment_type
6
```

Press Alt+F1 for accessibility options

Query results

Save Results

Explore Data

↕

Job Information

Results

JSON

Execution Details

Execution Graph

Preview

Row	f0_	payment_type
1	5775	voucher
2	3	not_defined
3	25455	credit_card
4	1529	debit_card
5	19784	UPI

Personal History

Project History

Refresh

^

It is very evident from the table that **UPI** transactions are increasing with increase in time surpassing **debit card** payments.

Recommendations:

As per the analysis of result set:

- The region that fall short in most area is **Espirito Santo**, as the most common problem being the delivery time. Located at a costal site of Brazil, a warehouse between Minas Gerais and Bahia might be able to solve a part of the issue, considering the decline in number of sellers.
- Also the highest increase in UPI transactions as indicated by the result set is from the Federative units of Brazil.
- Also on interpreting the results of graphs shown above, a reason of drop in count of orders after Nov, 2017 can be due to inevitable increase in overall cost of order; upon relative analysis.

Thanks