# **SQL** Documentry

#### Metrics

#### 1. Total Revenues

```
SELECT ROUND(SUM(price), 2) AS Total_Revenues
FROM [E-Commerce-Public].dbo.order_items_dataset
```

## Output:

	Total_Revenues
1	13591643.7

## 2. Average Order Items

#### Output:

```
Avg_Order_Items
1 1.37
```

#### 3. Total Orders

```
SELECT COUNT(DISTINCT(order_id)) AS Total_Orders
FROM [E-Commerce-Public].dbo.order_items_dataset
```

#### Output:

	Total_Orders
1	98666

## 4. Average Review Score

#### Output:

	Avg_Review_Score
1	4.12

## 5. Average Freight Values

	Avg_Freight_Values
1	22.82

## Graph

# 1. Percentage Orders by Status Orders

#### Output:

	Order_Status	Perc_of_Status_Orders	
1	delivered	97.02	
2	shipped	1.11	
3	canceled	0.63	
4	others	0.63	
5	unavailable	0.61	

# 2. Percentage Revenues by Order Payment

	payment_type	Perc_Total_Revenue
1	credit_card	80.743
2	boleto	17.596
3	voucher	4.852
4	debit_card	1.352

## 3. Percentage Orders by Order Payment

## Output:

	payment_type	Perc_Total_Revenue
1	credit_card	77.02
2	boleto	19.88
3	voucher	3.82
4	debit_card	1.54

## 4. Total Revenues by Month

•	Monthly	Total_Revenue		
1	1	1070343.23		
2	2	1091481.73		
3	3	1357557.74		
4	4	1356574.98		
5	5	1502588.82		
6	6	1298162.91		
7	7	1393538.70		
8	8	1428658.01		
9	9	624814.05		
10	10	713727.09		
11	11	1010271.37		
12	12	743925.07		

# 5. Total Orders by Month

#### Output:

	Monthly	Total_Orders		
1	1	8069		
2	2	8508		
3	3	9893		
4	4	9343		
5	5	10573		
6	6	9412		
7	7	10318		
8	8	10843		
9	9	4305		
10	10	4959		
11	11	7544		
12	12	5674		

## 6. Total Revenues by Hour

	Hourly	Total_Revenue
1	0	316817.97
2	1	150011.92
3	2	54833.01
4	3	35525.11
5	4	24281.59
6	5	22395.52
7	6	57212.71
8	7	152912.12
9	8	391527.38
10	9	679890.41
11	10	835327.68
12	11	875456.09

	Hourly	Total_Revenue
13	12	847175.54
14	13	871733.99
15	14	948289.93
16	15	903245.09
17	16	935293.71
18	17	838911.74
19	18	821292.31
20	19	823441.24
21	20	853886.40
22	21	838301.95
23	22	787403.22
24	23	526477.07

## 7. Total Orders by Hour

#### Output:

	Hourly	Total_Orders		Hourly	Total_Orders
1	0	2394	13	12	5995
2	1	1170	14	13	6518
3	2	510	15	14	6569
4	3	272	16	15	6454
5	4	206	17	16	6675
6	5	188	18	17	6150
7	6	502	19	18	5769
8	7	1231	20	19	5982
9	8	2967	21	20	6193
10	9	4785	22	21	6217
11	10	6177	23	22	5816
12	11	6578	24	23	4123

## 8. Top 5 Average Review Score by Customer State

```
SELECT TOP 5 cd.customer_state AS State,

CAST(
CAST(SUM(ord.review_score) AS DECIMAL(10, 2)) / CAST(COUNT(cd.customer_state) AS DECIMAL(10, 2))

AS DECIMAL(10, 2)

AS Avg_Review_Score

FROM [E-Commerce-Public].dbo.order_reviews_dataset ord

INNER JOIN [E-Commerce-Public].dbo.orders_dataset od

ON ord.order_id = od.order_id

INNER JOIN [E-Commerce-Public].dbo.customers_dataset cd

ON cd.customer_id = od.customer_id

GROUP BY cd.customer_state

ORDER BY Avg_Review_Score DESC
```

	State	Avg_Review_Score
1	AP	4.19
2	PR	4.18
3	AM	4.18
4	SP	4.17
5	MG	4.14

9. Bottom 5 Average Review Score by Customer State

#### Output:

	State	Avg_Review_Score
1	RR	3.61
2	AL	3.75
3	MA	3.76
4	SE	3.81
5	PA	3.85

10. Top 10 Average Review Score by Customer Product

	Product_Name	Avg_Review_Score
1	cds_dvds_musicals	4.64
2	fashion_childrens_clothes	4.50
3	books_general_interest	4.45
4	costruction_tools_tools	4.44
5	flowers	4.42

# 11. Bottom 10 Average Review Score by Customer Product

#### Output:

	Product_Name	Avg_Review_Score
1	security_and_services	2.50
2	diapers_and_hygiene	3.26
3	office_fumiture	3.49
4	home_comfort_2	3.63
5	fashion_male_clothing	3.64

## 12. Top 10 Total Revenue by Customer City

```
SELECT TOP 10
    cd.customer_city AS Customer_City,
    ROUND(SUM(oid.price), 2) AS Total_Revenue
FROM [E-Commerce-Public].dbo.orders_dataset od
INNER JOIN [E-Commerce-Public].dbo.customers_dataset cd
    ON od.customer_id = cd.customer_id
INNER JOIN [E-Commerce-Public].dbo.order_items_dataset oid
    ON oid.order_id = od.order_id
GROUP BY cd.customer_city
ORDER BY Total_Revenue DESC
```

	Customer_City	Total_Revenue
1	sao paulo	1914924.54
2	rio de janeiro	992538.86
3	belo horizonte	355611.13
4	brasilia	301920.25
5	curitiba	211738.06
6	porto alegre	190562.08
7	campinas	187844.53
8	salvador	181104.42
9	guarulhos	144268.39
10	niteroi	117907.12

## 13. Top 10 Total Order by Customer City

#### Output:

	customer_city	Total_Orders
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 bemardo do campo	938

## 14. Top 10 Total Revenue by Product

	Product_Name	Total_Revenue
1	health_beauty	1258681.341
2	watches_gifts	1205005.678
3	bed_bath_table	1036988.680
4	sports_leisure	988048.969
5	computers_accessories	911954.317
6	fumiture_decor	729762.492
7	cool_stuff	635290.852
8	housewares	632248.661
9	auto	592720.111
10	garden_tools	485256.462

## 15. Bottom 10 Total Revenue by Product

## Output:

	Product_Name	Total_Revenue
1	security_and_services	283.290
2	fashion_childrens_clothes	569.850
3	cds_dvds_musicals	730.000
4	home_comfort_2	760.270
5	flowers	1110.040
6	diapers_and_hygiene	1567.590
7	arts_and_craftmanship	1814.010
8	la_cuisine	2054.990
9	fashion_sport	2119.510
10	fashio_female_clothing	2803.640

#### 16. Top 10 Total Order by Product

	Product_Name	Total_Orders
1	bed_bath_table	9417
2	health_beauty	8836
3	sports_leisure	7720
4	computers_accessories	6689
5	fumiture_decor	6449
6	housewares	5884
7	watches_gifts	5624
8	telephony	4199
9	auto	3897
10	toys	3886

# 17. Bottom 10 Total Order by Product

#### Output:

	Product_Name	Total_Orders
1	security_and_services	2
2	fashion_childrens_clothes	8
3	cds_dvds_musicals	12
4	la_cuisine	13
5	arts_and_craftmanship	23
6	home_comfort_2	24
7	diapers_and_hygiene	27
8	fashion_sport	27
9	flowers	29
10	fumiture_mattress_and_upholstery	38

## 18. Top 5 Total Revenue by Customer State

	•	
	Customer_State	Total_Revenue
1	SP	5202955.05
2	RJ	1824092.67
3	MG	1585308.03
4	RS	750304.02
5	PR	683083.76

## 19. Bottom 10 Total Revenue by Customer State

```
SELECT TOP 5
    cd.customer_state AS Customer_State,
    ROUND(SUM(oid.price), 2) AS Total_Revenue
FROM [E-Commerce-Public].dbo.orders_dataset od
INNER JOIN [E-Commerce-Public].dbo.customers_dataset cd
    ON od.customer_id = cd.customer_id
INNER JOIN [E-Commerce-Public].dbo.order_items_dataset oid
    ON oid.order_id = od.order_id
GROUP BY cd.customer_state
ORDER BY Total_Revenue ASC
```

#### Output:

	Customer_State	Total_Revenue
1	RR	7829.43
2	AP	13474.3
3	AC	15982.95
4	AM	22356.84
5	RO	46140.64

## 20. Top 5 Total Order by Customer State

```
SELECT TOP 5
    cd.customer_state AS Customer_State,
    COUNT(DISTINCT(oid.order_id)) AS Total_Orders

FROM [E-Commerce-Public].dbo.orders_dataset od

INNER JOIN [E-Commerce-Public].dbo.customers_dataset cd

ON od.customer_id = cd.customer_id

INNER JOIN [E-Commerce-Public].dbo.order_items_dataset oid

ON oid.order_id = od.order_id

GROUP BY cd.customer_state

ORDER BY Total_Orders DESC
```

	Customer_State	Total_Orders
1	SP	41375
2	RJ	12762
3	MG	11544
4	RS	5432
5	PR	4998

# 21. Bottom 5 Total Order by Customer State

```
SELECT TOP 5
    cd.customer_state AS Customer_State,
    COUNT(DISTINCT(oid.order_id)) AS Total_Orders
FROM [E-Commerce-Public].dbo.orders_dataset od
INNER JOIN [E-Commerce-Public].dbo.customers_dataset cd
    ON od.customer_id = cd.customer_id
INNER JOIN [E-Commerce-Public].dbo.order_items_dataset oid
    ON oid.order_id = od.order_id
GROUP BY cd.customer_state
ORDER BY Total_Orders ASC
```

	Customer_State	Total_Orders
1	RR	46
2	AP	68
3	AC	81
4	AM	147
5	RO	247