

# Projeto 1 - Análise Delivery Center

Projeto sugerido após módulo 5 sobre agregação de dados.

Exercício de Análise de Dados

## 1- Qual o número de hubs por cidade?

```
SELECT COUNT(hub_city) as quantidade, hub_city from tb_hubs  
GROUP BY hub_city
```

quantidade	hub_city
4	PORTO ALEGRE
9	RIO DE JANEIRO
15	SAO PAULO
4	CURITIBA

## 2- Qual o número de pedidos (orders) por status?

```
SELECT COUNT(order_status) AS STATUS, order_status  
FROM tb_orders  
GROUP BY order_status
```

amount_by_status	order_status
16979	CANCELED
352020	FINISHED

## 3- Qual o número de lojas (stores) por cidade dos hubs?

```
SELECT COUNT(store_name) as store_amount, hub_city  
FROM tb_stores S INNER JOIN tb_hubs H  
ON S.hub_id = H.hub_id  
GROUP BY hub_city
```

store_amount	hub_city
48	PORTO ALEGRE
326	RIO DE JANEIRO
460	SAO PAULO

store_amount	hub_city
117	CURITIBA

#### 4- Qual o maior e o menor valor de pagamento (payment\_amount) registrado?

```
SELECT MAX(payment_amount), MIN(payment_amount) FROM tb_payments
```

#### 5- Qual tipo de driver (driver\_type) fez o maior número de entregas?

```
# Quantidade de entregas por ID

SELECT COUNT(delivery_status) amount_delivered, V.driver_id
FROM tb_deliveries D INNER JOIN tb_drivers V
WHERE D.driver_id = V.driver_id AND delivery_status = "DELIVERED"
GROUP BY V.driver_id
ORDER BY amount_delivered DESC;

# Qual drive_type fez maior numero de entregas:

SELECT COUNT(delivery_status) amount_delivered, V.driver_type
FROM tb_deliveries D INNER JOIN tb_drivers V
WHERE D.driver_id = V.driver_id AND delivery_status = "DELIVERED"
GROUP BY V.driver_type
ORDER BY amount_delivered DESC;
```

amount_delivered	driver_type
259249	FREELANCE
103517	LOGISTIC OPERATOR

#### 6- Qual a distância média das entregas por tipo de driver (driver\_modal)?

```
SELECT AVG(delivery_distance_meters) as average_distance, V.driver_modal
FROM tb_deliveries D INNER JOIN tb_drivers V
WHERE D.driver_id = V.driver_id AND delivery_status = "DELIVERED"
GROUP BY V.driver_modal
ORDER BY average_distance DESC;
```

average_distance	driver_modal
3446.9056	MOTOBOY
1109.2066	BIKER

#### 7- Qual a média de valor de pedido (order\_amount) por loja, em ordem decrescente?

```
SELECT ROUND(AVG(order_amount), 2) AS average_order_amount, S.store_id
FROM tb_orders O INNER JOIN tb_stores S
ON O.store_id = S.store_id
GROUP BY store_id
ORDER BY average_order_amount DESC
LIMIT 10;
```

average_order_amount	store_id
7499	1292
7096.81	603
6399	2471
5266.63	4245
3199	1123
2902.91	1300
2874.5	1612
2593.88	2136
2119.5	3862
2026	1632

## 8- Existem pedidos que não estão associados a lojas? Se caso positivo, quantos?

```
SELECT store_id from tb_orders
WHERE store_id = "" OR store_id = NULL
```

#Não temos pedidos sem associação com alguma loja

## 9- Qual o valor total de pedido (order\_amount) no channel 'FOOD PLACE'?

# Quantidade de Pedidos

```
SELECT ROUND(COUNT(order_amount), 2) AS order_amount, C.channel_name
FROM tb_orders O INNER JOIN tb_channels C
ON C.channel_name = "FOOD PLACE" AND O.channel_id = C.channel_id
GROUP BY channel_name
```

# Valor total somado de todos os pedidos

```
SELECT ROUND(SUM(order_amount), 2) AS order_amount, C.channel_name
FROM tb_orders O INNER JOIN tb_channels C
ON C.channel_name = "FOOD PLACE" AND O.channel_id = C.channel_id
GROUP BY channel_name
```

total_orders	channel_name
--------------	--------------

total_orders	channel_name
24703719.64	FOOD PLACE

## 10- Quantos pagamentos foram cancelados (chargeback)?

```
SELECT COUNT(delivery_status) AS status_amount, delivery_status
FROM tb_deliveries
WHERE delivery_status = "CANCELLED"
GROUP BY delivery_status
```

```
# status_amount | delivery_status
# 7253          | CANCELLED
```

## 11- Qual foi o valor médio dos pagamentos cancelados (chargeback)?

```
SELECT ROUND(AVG(order_amount), 2) AS avg_chargeback, delivery_status
FROM tb_deliveries D INNER JOIN tb_orders O
WHERE delivery_status = "CANCELLED" AND D.delivery_order_id = O.delivery_order_id
GROUP BY delivery_status
```

```
# average | status
# 90.06   | CANCELLED
```

## 12- Qual a média do valor de pagamento por método de pagamento (payment\_method) em ordem decrescente?

```
SELECT ROUND(AVG(payment_amount), 2) AS average_value, payment_method
FROM tb_payments
GROUP BY payment_method
ORDER BY average_value DESC;
```

average_value	payment_method
499.89	INSTALLMENT_CREDIT_S
281.78	STORE_DIRECT_PAYMENT
161.69	VOUCHER_STORE
134.46	CREDIT_STORE
122.76	PAYMENT_LINK
101.98	ONLINE
97.12	CREDIT
90.21	DEBIT_STORE

average_value	payment_method
83.9	VOUCHER_DC
83.45	VOUCHER_OL
76.27	BANK_TRANSFER_DC
66.67	DEBIT
63.47	MEAL_BENEFIT
33.89	MONEY
14.37	VOUCHER

### 13- Quais métodos de pagamento tiveram valor médio superior a 100?

```
SELECT ROUND(AVG(payment_amount), 2) AS average_value, payment_method
FROM tb_payments
GROUP BY payment_method
HAVING average_value > 100
ORDER BY average_value DESC;
```

average_value	payment_method
499.89	INSTALLMENT_CREDIT_S
281.78	STORE_DIRECT_PAYMENT
161.69	VOUCHER_STORE
134.46	CREDIT_STORE
122.76	PAYMENT_LINK
101.98	ONLINE

### 14- Qual a média de valor de pedido (order\_amount) por estado do hub (hub\_state), segmento da loja (store\_segment) e tipo de canal (channel\_type)?

```
SELECT ROUND(AVG(order_amount),2) avg_order, channel_type, store_segment, hub_state
FROM tb_channels CHAN
JOIN tb_orders ORD ON CHAN.channel_id = ORD.channel_id
JOIN tb_stores STOR ON STOR.store_id = ORD.store_id
JOIN tb_hubs HUB ON HUB.hub_id = STOR.store_id
GROUP BY channel_type, store_segment, hub_state
ORDER BY avg_order DESC;
```

avg_order	channel_type	store_segment	hub_state
148.8	OWN CHANNEL	FOOD	SP
58.37	MARKETPLACE	FOOD	SP

avg_order	channel_type	store_segment	hub_state
47.97	MARKETPLACE	FOOD	RS
43.81	OWN CHANNEL	FOOD	RJ
41.78	MARKETPLACE	FOOD	RJ

**15- Qual estado do hub (hub\_state), segmento da loja (store\_segment) e tipo de canal(channel\_type) teve média de valor de pedido (order\_amount) maior que 450?**

Nenhuma.

**16- Qual o valor total de pedido (order\_amount) por estado do hub (hub\_state), segmento da loja (store\_segment) e tipo de canal (channel\_type)**

Demonstre os totais intermediários e formate o resultado.

```
SELECT ROUND(SUM(order_amount),2), hub_state, store_segment, channel_type
FROM tb_orders ORDERS
INNER JOIN tb_stores STORES ON ORDERS.store_id = STORES.store_id
RIGHT JOIN tb_hubs HUBS ON HUBS.hub_id = STORES.hub_id
JOIN tb_channels CHANNELS ON ORDERS.channel_id = CHANNELS.channel_id
GROUP BY hub_state, store_segment, channel_type
ORDER BY hub_state;
```

total_order	hub_state	store_segment	channel_type
1335699.48	PR	FOOD	MARKETPLACE
24306.68	PR	FOOD	OWN CHANNEL
118544.08	PR	GOOD	MARKETPLACE
566142.84	PR	GOOD	OWN CHANNEL
9987907.75	RJ	FOOD	MARKETPLACE
349569.35	RJ	FOOD	OWN CHANNEL
444284.4	RJ	GOOD	MARKETPLACE
1532948.3	RJ	GOOD	OWN CHANNEL
2206522.86	RS	FOOD	MARKETPLACE
83950.95	RS	FOOD	OWN CHANNEL
44664.93	RS	GOOD	MARKETPLACE
658861.84	RS	GOOD	OWN CHANNEL
12751358.99	SP	FOOD	MARKETPLACE
287250.68	SP	FOOD	OWN CHANNEL
2298534.46	SP	GOOD	MARKETPLACE

total_order	hub_state	store_segment	channel_type
6110183.21	SP	GOOD	OWN CHANNEL

#### Segmentado por hub\_state

total	hub_id
2044693.08	PR
12314709.81	RJ
2994000.58	RS
21447327.35	SP

#### Segmentado por store\_segment

total	store_segment
27026566.76	FOOD
11774164.06	GOOD

#### Segmentado por channel\_type

total	channel_type
29187516.96	MARKETPLACE
9613213.86	OWN CHANNEL

**17- Quando o pedido era do Hub do Rio de Janeiro (hub\_state), segmento de loja 'FOOD', tipo de canal Marketplace e foi cancelado, qual foi a média de valor do pedido(order\_amount)?**

```
SELECT ROUND(SUM(order_amount),2) canceled_amount, hub_state, store_segment, channel_type
FROM tb_orders ORDERS
INNER JOIN tb_stores STORES ON ORDERS.store_id = STORES.store_id AND ORDERS.order_status = "CANCELED"
RIGHT JOIN tb_hubs HUBS ON HUBS.hub_id = STORES.hub_id AND HUBS.hub_state = "RJ" AND STORES.store_segment = "FOOD"
JOIN tb_channels CHANNELS ON ORDERS.channel_id = CHANNELS.channel_id AND CHANNELS.channel_type = "MARKETPLACE"
GROUP BY hub_state, store_segment, channel_type
```

canceled_amount	hub_state	store_segment	channel_type
320543.64	RJ	FOOD	MARKETPLACE

**18- Quando o pedido era do segmento de loja 'GOOD', tipo de canal Marketplace e foi cancelado, algum hub\_state teve total de valor do pedido superior a 100.000?**

```
SELECT ROUND(SUM(order_amount),2) canceled_amount, hub_state, store_segment, channel_type
FROM tb_orders ORDERS
INNER JOIN tb_stores STORES ON ORDERS.store_id = STORES.store_id AND ORDERS.order_status = "CANCELED"
RIGHT JOIN tb_hubs HUBS ON HUBS.hub_id = STORES.hub_id AND STORES.store_segment = "GOOD"
```

```
JOIN tb_channels CHANNELS ON ORDERS.channel_id = CHANNELS.channel_id AND CHANNELS.channel_type = "MARKETPLACE"
GROUP BY hub_state, store_segment, channel_type
HAVING canceled_amount > 100000
```

canceled_amount	hub_state	store_segment	channel_type
496669.48	SP	GOOD	MARKETPLACE

## 19- Em que data houve a maior média de valor do pedido (order\_amount)? Dica:

Pesquise e use a função SUBSTRING().

Dados não estão completos, muitos valores NULL e incongruentes

```
SELECT COUNT(order_moment_finished) order_count, SUBSTRING(order_moment_finished, 1, 8) order_date
FROM tb_orders_timers
GROUP BY order_date
ORDER BY order_count DESC
LIMIT 10;
```

order_count	order_date
5599	4/1/2021
5320	3/31/2021
5158	3/27/2021
5128	4/2/2021
5087	4/3/2021
4893	3/26/2021
4566	3/30/2021
4497	3/20/2021
4430	3/28/2021
4387	4/10/2021

## 20- Em quais datas o valor do pedido foi igual a zero (ou seja, não houve venda)? Dica:

Use a função SUBSTRING().

Não teve dia sem vendas.