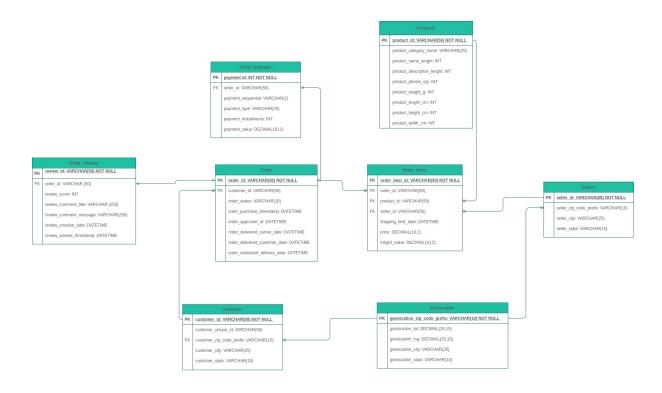
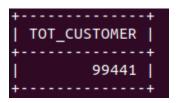
# 1) MPD présenté



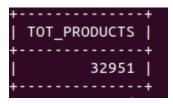
#### # Nombre de clients total

# mycursor.execute("SELECT COUNT(DISTINCT customer\_id) AS TOT\_CUSTOMER
FROM Customer")

# myresult = mycursor.fetchall()



### # Nombre de produits total



### # Nombre de produits par catégorie

# mycursor.execute("SELECT product\_category\_name, COUNT(product\_id) as Total\_Product

FROM products

GROUP BY product\_category\_name

ORDER BY total\_product DESC")

# myresult = mycursor.fetchall()

cama_mesa_banho	+ Categories	Total_Product
	esporte_lazer   moveis_decoracao   beleza_saude   utilidades_domesticas   automotivo   informatica_acessorios   brinquedos   relogios_presentes	2867   2657   2444   2335   1900   1639   1411   1329

#### # Nombre de commandes total

# mycursor.execute("SELECT COUNT(DISTINCT order\_id)

FROM Orders")

# myresult = mycursor.fetchall()

# print(myresult)



### # Nombre de commandes selon leurs états (en cours de livraison etc...)

# mycursor.execute("SELECT order\_status AS STATUS, COUNT(order\_id) AS ORDERS

FROM orders

**GROUP BY STATUS** 

ORDER BY ORDERS DESC")

# myresult = mycursor.fetchall()

+   STATUS	ORDERS
+	++   96478     1107     625     609     314     301
approved	2
+	++

### ## Nombre de commandes par mois

# mycursor.execute("SELECT EXTRACT(YEAR FROM order\_purchase\_timestamp) AS YEAR, EXTRACT(MONTH FROM order\_purchase\_timestamp) AS MONTH, COUNT(DISTINCT order\_id)

FROM orders

GROUP BY YEAR, MONTH")

# myresult = mycursor.fetchall()

++		
YEAR	MONTH I	COUNT(DISTINCT order_id)
++		
2016	9	4
2016	10	324
2016	12	1
2017	1	800
2017	2	1780
2017	3	2682
2017	4	2404
2017	5	3700
2017	6	3245
2017	7	4026
2017	8	4331
2017	9	4285
2017	10	4631
2017	11	7544
2017	12	5673
2018	1	7269
2018	2	6728
2018	3	7211
2018	4	6939
2018	5	6873
2018	6	6167
2018	7	6292
2018	8	6512
2018	9	16
2018	10	4
++	+	++

# # Prix moyen d'une commande (panier moyen)

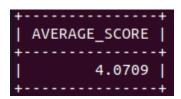
```
# mycursor.execute("SELECT avg(payment_value) AS AVERAGE_PRICE FROM orders_payment")
```

## myresult = mycursor.fetchall()

## print(myresult)

# Score de satisfaction moyen (notation sur la commande)

# print(myresult)



#### # Nombre de vendeurs

# mycursor.execute("SELECT COUNT(DISTINCT seller\_id) AS TOT\_SELLERS
FROM seller")

# myresult = mycursor.fetchall()

# print(myresult)



#### # Nombre de vendeurs par région

# mycursor.execute("SELECT s.seller\_state AS REGIONS, count(i.order\_id) AS TOT\_ORDERS

FROM orders\_items i

LEFT JOIN sellers s ON i.seller\_id = s.seller\_id

**GROUP BY REGIONS** 

ORDER BY TOT\_ORDERS DESC")

# myresult = mycursor.fetchall()

### # print(myresult)

REGIONS	TOT_ORDERS
SP	80342
MG	8827
PR	8671
RJ	4818
SC	4075
RS	2199
DF	899
Ξ <b>(</b>   ΒΑ	643
GO	520
PE	448
+	++

### #Quantité de produit vendu par catégorie

# mycursor.execute("SELECT p.product\_category\_name AS CATEGORIES, count(i.product\_id) AS TOT\_PRODUCTS

FROM orders\_items i

LEFT JOIN products p ON i.product\_id = p.product\_id

**GROUP BY CATEGORIES** 

ORDER BY TOT\_PRODUCTS DESC")

# myresult = mycursor.fetchall()

cama_mesa_banho	+  CATEGORIES	TOT_PRODUCTS
	beleza_saude   esporte_lazer   moveis_decoracao   informatica_acessorios   utilidades_domesticas   relogios_presentes   telefonia   ferramentas_jardim	9670   8641   8334   7827   6964   5991   4545   4347

#### # Nombre de commandes par jours

```
(Year = 2017, Month = Jan)
```

# mycursor.execute("SELECT EXTRACT(YEAR FROM order\_purchase\_timestamp) AS YEAR,

EXTRACT(MONTH FROM order\_purchase\_timestamp) AS MONTH,

EXTRACT(DAY FROM order\_purchase\_timestamp) AS DAY,

COUNT(DISTINCT order\_id) AS ORDERS

FROM orders

WHERE EXTRACT(YEAR FROM order purchase timestamp) = '2017' AND

EXTRACT(MONTH FROM order purchase timestamp) = '1'

GROUP BY YEAR, MONTH, DAY")

# myresult = mycursor.fetchall()

+	+	+	
YEAR	MONTH	DAY	ORDERS
+   2017			22 1
2017	1	5	32     4
2017	1	6   7	
	1		4
2017	1	8	6
2017	1	9	5
2017	1	10	6
2017	1	11	12
2017	1	12	13
2017	1	13	12
2017	1	14	18
2017	1	15	14
2017	1	16	19
2017	1	17	32
2017	1	18	33
2017	1	19	29
2017	1	20	29
2017	1	21	24
2017	1	22	31
2017	1	23	39
2017	1	24	40
2017	1	25	63
2017	1	26	86
2017	1	27	62
2017	1	28	29
2017	1	29	35
2017	1	30	53
2017	1	31	70
+			

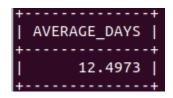
### # Durée moyenne entre la commande et la livraison

```
# mycursor.execute("SELECT avg(datediff(order_delivered_customer_date,order_purchase_timestamp)) AS AVERAGE_DAYS
```

FROM orders

ORDER BY AVERAGE\_DAYS DESC")

# myresult = mycursor.fetchall()



### # Nombre de commande par ville (ville du vendeur)

# mycursor.execute("SELECT s.seller\_city AS CITIES, count(i.order\_id) AS TOT\_ORDERS

FROM orders\_items i

LEFT JOIN sellers s ON i.seller\_id = s.seller\_id

**GROUP BY CITIES** 

ORDER BY TOT\_ORDERS DESC")

# myresult = mycursor.fetchall()

# print(myresult)

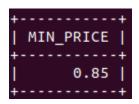
+	++
CITIES	TOT_ORDERS
+	++
sao paulo	27985
ibitinga	7750
curitiba	3016
santo andre	2964
belo horizonte	2593
sao jose do rio preto	2579
rio de janeiro	2442
guarulhos	2362
ribeirao preto	2269
maringa	2220
+	++

#### # Prix minimum des commandes

# mycursor.execute("SELECT min(price) AS MIN\_PRICE

FROM orders\_items")

```
# myresult = mycursor.fetchall()
# print(myresult)
```



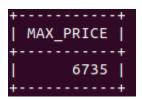
#### # Prix minimum des commandes

# mycursor.execute("SELECT min(price) AS MAX\_PRICE

FROM orders\_items")

# myresult = mycursor.fetchall()

# print(myresult)



#### # Le temps moyen d'une livraison par mois

# mycursor.execute("SELECT EXTRACT(YEAR FROM order\_purchase\_timestamp) AS YEAR,

EXTRACT(MONTH FROM order\_purchase\_timestamp) AS MONTH,

EXTRACT(DAY FROM order purchase timestamp) AS DAY,

avg(datediff(order\_delivered\_customer\_date,order\_purchase\_timestamp)) AS
AVERAGE DAYS

FROM orders

WHERE EXTRACT(YEAR FROM order\_purchase\_timestamp) = '2017' AND

EXTRACT(MONTH FROM order purchase timestamp) = '1'

# GROUP BY YEAR, MONTH, DAY

# ORDER BY YEAR, MONTH, DAY")

# myresult = mycursor.fetchall()

+	+	+	++
YEAR	MONTH	DAY	AVERAGE_DAYS
2017	1	5	10.8125
2017	1	6	7.7500
2017	1	7	24.2500
2017	1	8	8.2500
2017	1	9	23.6000
2017	1	10	12.6667
2017	1	11	7.4000
2017	1	12	24.5000
2017	1	13	9.6000
2017	1	14	15.4375
2017	1	15	12.9286
2017	1	16	12.2222
2017	1	17	11.1250
2017	1	18	13.2667
2017	1	19	12.4828
2017	1	20	12.0714
2017	1	21	13.0455
2017	1	22	9.4667
2017	1	23	13.1389
2017	1	24	11.7895
2017	1	25	12.1053
2017	1	26	13.7317
2017	1	27	12.9661
2017	1	28	13.0714
2017	1	29	13.9375
2017	1	30	11.2917
2017	1	31	13.6094
+	+	+	++