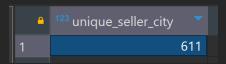
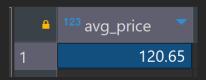
SELECT COUNT(DISTINCT s.seller city) AS unique seller city

FROM sellers s

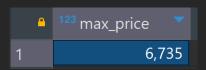


- ●-- Qual o valor médio do preço de todos os pedidos? **SELECT**
- ROUND(AVG(price), 2) AS avg price FROM order_items oi



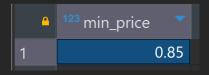
●-- Qual o maior valor de preço entre todos os pedidos? **SELECT**

MAX(oi.price) AS max price FROM order items oi



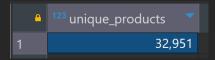
●-- Qual o menor valor de preço entre todos os pedidos? **SELECT**

MIN(oi.price) AS min price FROM order items oi

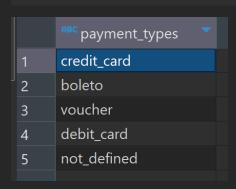


●-- Qual a quantidade de produtos distintos vendidos? **SELECT**

COUNT(DISTINCT oi.product id) AS unique products FROM order items oi

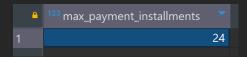


-- Quais os tipos de pagamentos existentes?
SELECT
 DISTINCT op.payment_type AS payment_types
FROM order payments op



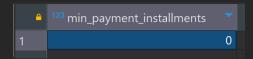
●-- Qual o maior número de parcelas realizado? **SELECT**

MAX(op.payment_installments) AS max_payment_installments
FROM order payments op

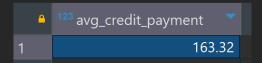


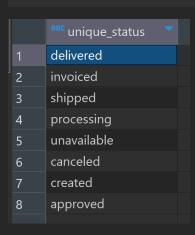
● -- Qual o menor número de parcelas realizado? **SELECT**

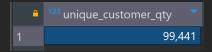
MIN(op.payment_installments) AS min_payment_installments
FROM order payments op

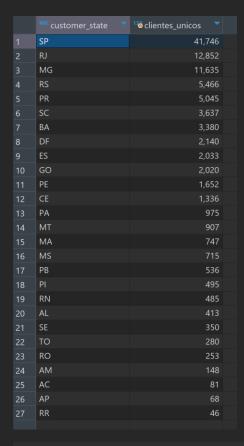


- -- Qual a média do valor pago no cartão de crédito? **SELECT**
- ROUND(AVG(op.payment_value),2) AS avg_credit_payment
 FROM order_payments op
 WHERE op.payment_type = 'credit_card'









● -- Qual o número de cidades únicas de todos os estados?

SELECT

g.geolocation_state,

COUNT(DISTINCT g.geolocation_city) AS numero_cidades

FROM geolocation g

GROUP BY g.geolocation_state

ORDER BY numero_cidades DESC

	geolocation_state	¹ % numero_cidades ▼	
	MG	1,426	
	SP	1,048	
	RS	691	
4	BA	652	
	PR	651	
	SC	420	
	GO	384	
8	MA	299	
	PI	278	
10	PE	267	
11	CE	260	
12	РВ	254	
13	RJ	245	
14	PA	219	
15	RN	214	
16	MT	213	
17	то	173	
18	ES	160	
19	MS	133	
20	AL	130	
21	SE	96	
22	RO	83	
23	AM	74	
24	AC	34	
25	DF	28	
26	AP	17	
27	RR	14	

```
● -- Qual o número de clientes únicos por estado e por cidade?

SELECT

    c.customer_state,
    c.customer_city,

COUNT(DISTINCT c.customer_id) AS clientes_unicos

FROM customer c

GROUP BY c.customer_state, c.customer_city
```

	customer_state	customer_city	126 clientes_unicos	
	AC	brasileia	1	
	AC	cruzeiro do sul	3	
	AC	epitaciolandia	1	
	AC	manoel urbano		
	AC	porto acre	1	
	AC	rio branco		
	AC	senador guiomard	2	
	AC	xapuri		
	AL	agua branca	1	
	AL	anadia		
11	AL	arapiraca	29	
12	AL	atalaia	1	
	AL	barra de santo antonio		
14	AL	barra de sao miguel		
	AL	batalha	3	
	AL	belem	3	
17	AL	boca da mata	2	
	AL	cacimbinhas	1	
	AL	cajueiro	1	
	AL	campo alegre		
21	AL	canapi	1	
22	AL	coite do noia	1	
23	AL	colonia leopoldina	2	
24	AL	coruripe		
25	AL	delmiro gouveia	4	
26		dais riachas	1	

```
•-- Qual a quantidade de pedidos, a média do valor do pagamento e o número máximo de parcelas por tipo de pagamentos?

SELECT

op.payment_type,

COUNT(op.order_id) AS pedidos,

AVG(op.payment_value) AS AVG_pagamento,

MAX(op.payment_installments) AS max_parcelas

FROM order_payments op

GROUP BY op.payment_type
```

	payment_type	¹ % pedidos ▼	¹% AVG_pagamento ▼	¹²ð max_parcelas ▼	
	boleto	19,784	145.0344354023		
2	credit_card	76,795	163.3190206394	24	
	debit_card	1,529	142.5701700458		
4	not_defined		0		
	voucher	5,775	65.7033541126		

```
op.payment_type,
op.payment_installments,
MIN(op.payment_value) AS valor_minimo,
MAX(op.payment_value) AS valor_maximo,
AVG(op.payment_value) AS valor_medio,
SUM(op.payment_value) AS soma_valor
FROM order_payments op
GROUP BY op.payment_type, op.payment_installments
```

	payment_type	123 payment_installments	¹∕o valor_minimo ▼	¹ 6 valor_maximo ▼	¹ ॐ valor_medio ▼	¹ ⊘ soma_valor ▼
	boleto		11.62	7,274.88	145.0344354023	2,869,361.2699999753
	credit_card		58.69	129.94	94.315	188.63
	credit_card		0.01	13,664.08	95.8729298763	2,440,445.4299999927
4	credit_card		20.03	2,442.82	127.2281503263	1,579,283.0300000054
	credit_card		30	3,256.14	142.5393174649	1,491,103.800000002
	credit_card	4	40	3,126.5	163.9768399549	1,163,907.6099999966
	credit_card		49.99	4,809.44	183.4652223707	961,174.3000000021
8	credit_card		59.99	2,828.42	209.8499515306	822,611.810000001
	credit_card		69.97	2,094.44	187.6736715867	305,157.3899999999
10	credit_card	8	37.58	6,929.31	307.7374273664	1,313,423.3400000038
11	credit_card		90.11	2,116.01	203.4408695652	131,015.9199999999
12	credit_card	10	37.67	4,950.34	415.0858370871	2,211,577.340000001
13	credit_card	11	110.3	198.83	124.932173913	2,873.44
14	credit_card	12	121.09	1,543.25	321.6784962406	42,783.24
15	credit_card	13	130	278	150.4625	2,407.4
16	credit_card	14	139.98	417.45	167.9626666667	2,519.44
17	credit_card	15	151.93	2,647.76	445.5531081081	32,970.93
18	credit_card	16	160.12	651.05	292.694	1,463.47
19	credit_card	17	170	177.99	174.6025	1,396.82
20	credit_card	18	180.76	1,232.85	486.4833333333	13,135.05
21	credit_card	20	200.08	2,022.33	615.8017647059	10,468.63
22	credit_card	21	212.03	303.02	243.7	731.1
23	credit_card	22	228.71	228.71	228.71	228.71
24	credit_card	23	236.48	236.48	236.48	236.48
25	credit_card	24	241.42	1,440.1	610.0488888889	10,980.88
26	debit_card		13.38	4,445.5	142.5701700458	217,989.7900000001
27	not_defined					
28	voucher			3,184.34	65.7033541126	379,436.8700000007

⊖-- Quantos produtos estão cadastrados na empresa por categoria? SELECT

	and categoria	¹% qtd_produtos ▼	
1	cama_mesa_banho	3,029	
2	esporte_lazer	2,867	
3	moveis_decoracao	2,657	
4	beleza_saude	2,444	
5	utilidades_domestic	2,335	
6	automotivo	1,900	
7	informatica_acessori	1,639	
8	brinquedos	1,411	
9	relogios_presentes	1,329	
10	telefonia	1,134	
11	bebes	919	
12	perfumaria	868	
13	papelaria	849	
14	fashion_bolsas_e_ac	849	
15	cool_stuff	789	
16	ferramentas_jardim	753	
17	pet_shop	719	
18		610	
19	eletronicos	517	
20	construcao_ferrame	400	
21	eletrodomesticos	370	
22	malas_acessorios	349	
23	consoles_games	317	
24	moveis_escritorio	309	
25	instrumentos_music	289	
26	eletroportateis	231	
27	casa_construcao	225	
28	livros_interesse_gera	216	
29	fashion_calcados	173	
3U	moveis sala	156	

```
●/* Qual o número total de pedidos únicos, a data mínima e máxima de envio, o valor máximo, mínimo e médio do frete dos pedidos abaixo de R$ 1.100 por cada vendedor? */
SELECT
    oi.seller_id,
    COUNT(DISTINCT oi.order_id) AS pedidos,
    MIN(DATE(oi.shipping_limit_date)) AS data_min,
    MAX(DATE(oi.shipping_limit_date)) AS data_max,
    MAX(oi.freight_value) AS frete_max,
    MIN(oi.freight_value) AS frete_min,
    AVG(oi.freight_value) AS frete_medio
FROM order_items oi
WHERE oi.price < 1100
GROUP BY oi.seller_id</p>
```

```
1<sup>1</sup><sup>2</sup> pedidos ▼ <sup>10</sup> data_min ▼ <sup>10</sup> data_max ▼ 1<sup>2</sup> frete_max ▼ 1<sup>2</sup> frete_min ▼ 1<sup>2</sup> frete_medio ▼
                                                                     2017-10-24
     0015a82c2db000af6aaaf3ae2ecb0532
     001cca7ae9ae17fb1caed9dfb1094831
                                                    200 2017-02-08
                                                                         2018-07-19
                                                                                                                                 37.0466108787
     001e6ad469a905060d959994f1b41e4f
                                                      1 2018-08-13
                                                                         2018-08-13
     002100f778ceb8431b7a1020ff7ab48f
                                                     51 2017-09-20
                                                                         2018-04-18
                                                                                                                                 14.4301818182
  003554e2dce176b5555353e4f3555ac8
                                                                                                                                       19.38
   004c9cd9d87a3c30c522c48c4fc07416
                                                    158 2017-02-02
                                                                         2018-05-10
7 00720abe85ba0859807595bbf045a33b
                                                    13 2018-02-01 2018-08-07
    00d8b143d12632bad99c0ad66ad52825
                                                      1 2018-03-27
    00ee68308b45bc5e2660cd833c3f81cc
                                                    135 2017-09-25
                                                                         2018-08-15
                                                                         2010 06 21
```

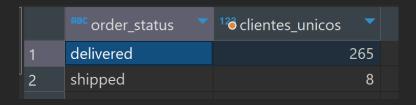
•/* Quantos clientes únicos tiveram seu pedidos com status de "processing",
 "shipped" e "delivered", feitos entre os dias 01 e 31 de Outubro de 2016. Mostrar
 o resultado somente se o número total de clientes for acima de 5. */

SELECT
 o.order_status,
 COUNT(DISTINCT o.customer_id) AS clientes_unicos

FROM and analyse.

FROM orders o
WHERE o.order_status IN ('processing', 'shipped', 'delivered')
 AND o.order_purchase_timestamp BETWEEN '2016-10-01' AND '2016-10-31'
GROUP BY o.order_status

HAVING COUNT(DISTINCT o.customer id) > 5



● -- Quais são os top 10 vendedores com mais clientes?

SELECT

s.seller_id,

COUNT(c.customer_id) AS qtde_clientes

FROM orders o LEFT JOIN order_items oi ON oi.order_id = o.order_id

LEFT JOIN sellers s ON s.seller_id = oi.seller_id

LEFT JOIN customer c ON c.customer_id = o.customer_id

GROUP BY s.seller_id

ORDER BY qtde clientes DESC

LIMIT 10

	seller_id **	176 qtde_clientes	
1	6560211a19b47992c3666cc44a7e94c0	2,033	
2	4a3ca9315b744ce9f8e9374361493884	1,987	
	1f50f920176fa81dab994f9023523100	1,931	
4	cc419e0650a3c5ba77189a1882b7556a	1,775	
	da 8622 b 14 e b 17 a e 2831 f 4 a c 5 b 9 da b 84 a	1,551	
6	955fee9216a65b617aa5c0531780ce60	1,499	
7	1025f0e2d44d7041d6cf58b6550e0bfa	1,428	
8	7c67e1448b00f6e969d365cea6b010ab	1,364	
9	ea8482cd71df3c1969d7b9473ff13abc	1,203	
10	7a67c85e85bb2ce8582c35f2203ad736	1,171	

●-- Qual o número de pedidos com o tipo de pagamento igual a "boleto"?

SELECT

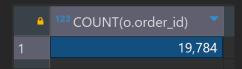
COUNT(o.order_id)

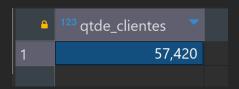
FROM orders o

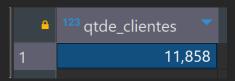
WHERE o.order_id IN (SELECT op.order_id

FROM order_payments op

WHERE op.payment_type = 'boleto')







```
• Crie uma tabela que mostre a média de avaliações por dia, a média de preço por dia, a soma dos preços por dia, o preço mínimo por dia, o número de pedidos por dia e o número de clientes únicos que compraram no dia. */

**SELECT**
**I. date__*
**tl.avg_review,
```

-	RBC date_	123 avg_review	123 avg_price	123 sum_price	123 min_price	123 pedido_por_dia	123 clientes_unicos
55	2017-01-12		106.5966666667	319.79	10.99	13	13
56	2017-01-13		114.8257142857	803.78	7.9	12	12
57	2017-01-14	4.2	249.97125	1,999.77	48.9	18	18
58	2017-01-17	4.8	243.568	2,435.68	54.9	32	32
59	2017-01-18	4.875	60.1842857143	842.58	10.99	33	33
60	2017-01-19	4.5	184.6438461538	2,400.37	10.49	29	29
61	2017-01-20		167.185	3,343.7	10.99	29	29
62	2017-01-21	4.3636363636	78.2034210526	2,971.73	8.9	24	24
63	2017-01-22		109.3463157895	4,155.16	10.99	31	31
64	2017-01-24	4.2857142857	110.15875	3,525.08	10.3	40	40
65	2017-01-25	3.7857142857	66.735	2,402.46	9.9	63	63

```
/* Crie uma consulta que exiba o código do produto e a categoria de cada produto com base no seu preço:

Preço abaixo de 50 → Categoria A

Preço entre 50 e 100 → Categoria B

Preço entre 100 e 500 → Categoria C

Preço entre 500 e 1500 → Categoria D

Preço acima de 1500 → Categoria E

*/

SELECT

oi.product_id,
oi.price,
CASE

WHEN oi.price < 50.0 THEN 'categoria a'
WHEN oi.price < 100.0 THEN 'categoria b'
WHEN oi.price < 500.0 THEN 'categoria c'
WHEN oi.price < 1500.0 THEN 'categoria d'
ELSE 'categoria e'
END AS categoria

FROM order items oi
```

```
58.9 categoria b
    4244733e06e7ecb4970a6e2683c13e61
    e5f2d52b802189ee658865ca93d83a8f
    c777355d18b72b67abbeef9df44fd0fd 199 categoria c
  ac6c3623068f30de03045865e4e10089 199.9 categoria c
    ef92defde845ab8450f9d70c526ef70f
                                         21.9 categoria a
    8d4f2bb7e93e6710a28f34fa83ee7d28 19.9 categoria a
    557d850972a7d6f792fd18ae1400d9b6
                                          810 categoria d
    310ae3c140ff94b03219ad0adc3c778f
                                     145.95 categoria c
    4535b0e1091c278dfd193e5a1d63b39f
                                         53.99 categoria b
11 d63c1011f49d98b976c352955b1c4bea
                                         59.99 categoria b
```

•	123 COUNT(oi.product_id)	^{ABC} categoria
1	39,024	categoria a
2	33,141	categoria b
3	37,246	categoria c
4	2,902	categoria d
5	337	categoria e

•/* Crie uma consulta que exiba a data de compra, o valor de cada venda e o total acumulado de vendas até aquela
data. */
SELECT
 DATE(o.order_purchase_timestamp),
 oi.price,
 SUM(oi.price) OVER (ORDER BY DATE(o.order_purchase_timestamp)) AS total_acumulado
FROM orders o LEFT JOIN order_items oi ON oi.order_id = o.order_id
WHERE oi.price IS NOT NULL

	DATE(o.order_purchase_timestamp)	123 price	¹³o total_acumulado ▼
	2016-09-04	39.99	72.89
	2016-09-04	32.9	72.89
	2016-09-05	59.5	132.39
4	2016-09-15	44.99	267.36
	2016-09-15	44.99	267.36
	2016-09-15	44.99	267.36
	2016-10-02	100	367.36
8	2016-10-03	29.9	830.84
	2016-10-03	21.5	830.84
10	2016-10-03	36.49	830.84
11	2016-10-03	128 9	830 84

<u> </u>	estado 🔻	RBC categoria	123 qtde_produtos 🔻	123 total_estado	123 porcentagem
1	AC	artigos_de_natal		90	1.1111111111
	AC	automotivo	4	90	4.444444444
	AC	bebes	3	90	3.333333333
4	AC	beleza_saude	7	90	7.777777778
	AC	brinquedos	3	90	3.333333333
	AC	cama_mesa_banho	4	90	4.444444444
	AC	consoles_games		90	1.1111111111
8	AC	cool_stuff		90	1.1111111111
	AC	eletronicos	4	90	4.444444444
10	AC	eletroportateis		90	1.1111111111
11	۸۲	esporte lazer		an	10

```
• /* Crie uma consulta SQL usando a cláusula WITH para calcular o total de vendas para cada categoria e exiba o
    resultado. */
WITH vendas AS (
SELECT
    p.product_category_name AS categoria,
        SUM(oi.price) AS total_vendas
FROM order_items oi LEFT JOIN products p ON p.product_id = oi.product_id
WHERE p.product_category_name IS NOT NULL
GROUP BY p.product_category_name
)
SELECT
        categoria,
        total_vendas
FROM vendas
```

	** categoria	123 total_vendas	
1	agro_industria_e_comercio	72,530.47	
	alimentos	29,393.4100000002	
	alimentos_bebidas	15,179.48	
4	artes	24,202.64	
	artes_e_artesanato	1,814.01	
	artigos_de_festas	4,485.18	
	artigos_de_natal	8,800.82	
8	audio	50,688.5	
	automotivo	592,720.110000013	
10	bebes	411,764.8900000016	
11	bebidas	22,428.7	
12	beleza_saude	1,258,681.339999968	
13	brinquedos	483,946.6000000026	
14	cama_mesa_banho	1,036,988.6800000716	
15	casa_conforto	58,572.0400000003	
16	casa_conforto_2	760.27	
17	casa_construcao	83,088.1199999998	
18	cds_dvds_musicais	730	
19	cine_foto	6,933.46	
20	climatizacao	55,024.9600000001	
21	consoles_games	157,465.2199999991	
22	construcao_ferramentas_co	144,677.5899999998	
23	construcao_ferramentas_fer	15,903.95	
24	construcao_ferramentas_ilu	41,080	
25	construcao_ferramentas_jar	25,715.89	
26	construcao_ferramentas_seç	40,544.5200000001	
27	cool_stuff	635,290.8500000037	
28	dvds_blu_ray	5,999.39	
29	eletrodomesticos	80,171.53	

_	nes •	¹²³ vendas	
1	05	1,502,588.8199998986	
J			

	nnc .				
•	categoria 🔻	123 preco	data_limite_envio	primeira_compra	123 dias
1	agro_industria_e_comercio	21.99	2017-01-27	2017-01-27	0
2	agro_industria_e_comercio	21.99	2017-01-27	2017-01-27	0
3	agro_industria_e_comercio	21.99	2017-02-04	2017-01-27	8
4	agro_industria_e_comercio	21.99	2017-02-09	2017-01-27	13
5	agro_industria_e_comercio	21.99	2017-02-12	2017-01-27	15
6	agro_industria_e_comercio	21.99	2017-02-17	2017-01-27	21
7	agro_industria_e_comercio	21.99	2017-02-20	2017-01-27	24
8	agro_industria_e_comercio	92.9	2017-02-21	2017-01-27	25
9	agro_industria_e_comercio	21.99	2017-02-22	2017-01-27	26
10	agro_industria_e_comercio	21.99	2017-02-25	2017-01-27	29
11	agro_industria_e_comercio	59.99	2017-03-23	2017-01-27	55
12	agro_industria_e_comercio	22	2017-03-24	2017-01-27	56
13	agro_industria_e_comercio	59.99	2017-05-11	2017-01-27	104
14	agro_industria_e_comercio	589.99	2017-05-15	2017-01-27	107
15	agro_industria_e_comercio	869.97	2017-05-25	2017-01-27	117
16	agro_industria_e_comercio	59.99	2017-06-01	2017-01-27	125
17	agro_industria_e_comercio	1,390	2017-07-06	2017-01-27	160
18	agro_industria_e_comercio	1,180	2017-07-20	2017-01-27	174

• categoria	RBC limite_entrega	primeira_compra	123 dias_max
1 utilidades_domesticas	2020-04-09	2016-10-04	1,283