

1.

```

1 SELECT customer_id, customer_city, customer_state
2 FROM olist_customers_dataset;

```

	customer_id	customer_city	customer_state
1	06b8999e2f...	franca	SP
2	18955e83d3...	sao ...	SP
3	4e7b3e0028...	sao paulo	SP
4	b2b6027bc5...	mogi das ...	SP
5	4f2d8ab171...	campinas	SP
6	879864dab9...	jaragua do...	SC
7	fd826e7cf6...	sao paulo	SP
8	5e274e7a0c...	timoteo	MG
9	5adf08e34b...	curitiba	PR
10	4b7139f345...	belo ...	MG
11	9fb35e4ed6...	montes ...	MG
12	5aa9e4fdd4...	rio de ...	RJ

Execution finished without errors.
Result: 99441 rows returned in 164ms
At line 1:
SELECT customer_id, customer_city, customer_state
FROM olist_customers_dataset;

2.

```

1 SELECT customer_id, customer_city, customer_state
2 FROM olist_customers_dataset
3 WHERE customer_state = 'SP';

```

	customer_id	customer_city	customer_state
1	06b8999e2fbalalfbc88172c00ba8bc7	franca	SP
2	18955e83d337fd6b2def6b18a428ac77	sao bernardo do campo	SP
3	4e7b3e00288586ebd08712fdd0374a03	sao paulo	SP
4	b2b6027bc5c5109e529d4dc6358b12c3	mogi das cruzeiras	SP
5	4f2d8ab171c80ec8364f7c12e35b23ad	campinas	SP
6	fd826e7cf63160e536e0908c76c3f441	sao paulo	SP
7	b2d1536598b73a9abd18e0d75d92f0a3	lencois paulista	SP
8	eabebad39a88bb6f5b52376faec28612	sao paulo	SP
9	206f3129c0e4d7d0b9550426023f0a08	piracicaba	SP
10	c5c61596a3b6bd0cee5766992c48a9a1	guarulhos	SP
11	9b8ce803689b3562defaad4613ef426f	sao paulo	SP
12	2938121a40a20953c43caa8c98787fcb	sao paulo	SP

Execution finished without errors.
Result: 41746 rows returned in 268ms
At line 1:
SELECT customer_id, customer_city, customer_state
FROM olist_customers_dataset
WHERE customer_state = 'SP';

3.

SelectQuery.sql* SQL 2*

```

1  -- SELECT customer_id, customer_city, customer_state
2  -- FROM olist_customers_dataset
3  -- WHERE customer_state = 'SP';
4  SELECT order_id, payment_type, payment_value
5  FROM olist_order_payments_dataset
6  WHERE payment_value > 100;
7
8
9

```

	order_id	payment_type	payment_value
1	ba78997921bbcdc1373bb41e913ab953	credit_card	107.78
2	42fdf880ba16b47b59251dd489d4441a	credit_card	128.45
3	1f78449c87a54faf9e96e88ba1491fa9	credit_card	341.09
4	d88e0d5fa41661ce03cf6cf336527646	credit_card	188.73
5	2480f727e869fdeb397244a21b721b67	credit_card	141.9
6	cf95215a722f3ebf29e6bbab87a29e61	credit_card	102.66
7	769214176682788a92801d8907falb40	credit_card	105.28
8	12e5cfe0e4716b59afb0e0f4a3bd6570	credit_card	157.45
9	61059985a6fc0ad64e95d9944caacdad	credit_card	132.04
10	8ac09207f415d55acff302df7d6a895c	credit_card	244.15

Execution finished without errors.
Result: 51776 rows returned in 359ms
At line 1:
-- SELECT customer_id, customer_city, customer_state

4.

SelectQuery.sql* SelectWhere.sql SQL 3*

```

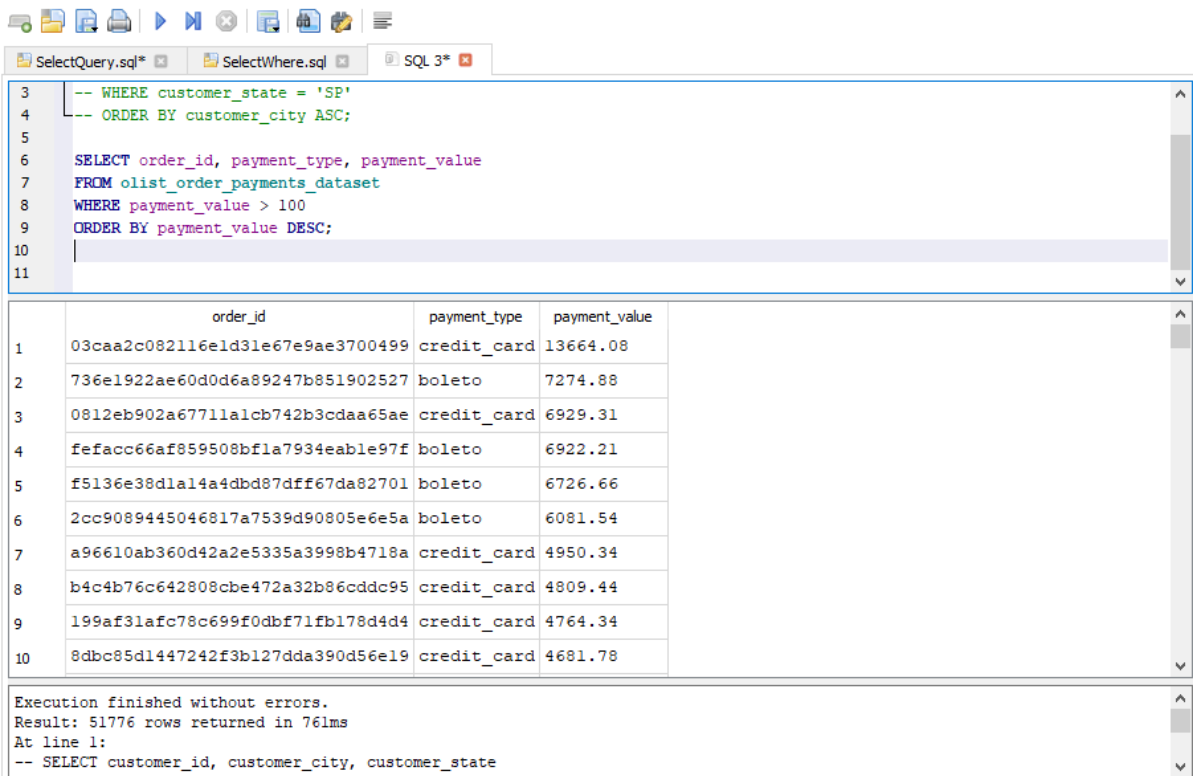
1  SELECT customer_id, customer_city, customer_state
2  FROM olist_customers_dataset
3  WHERE customer_state = 'SP'
4  ORDER BY customer_city ASC;
5

```

	customer_id	customer_city	customer_state
1	ed35271185aa3ecf2e421970e47e473f	adamantina	SP
2	9c8238260ea546e75c56fc27c0fedfc8	adamantina	SP
3	f5219627819a30474a6ef14e1598e7f4	adamantina	SP
4	5684f8bf0ee27f2003ba2380c4ba8b08	adamantina	SP
5	cc6a744ba14a060493fb64b97087006c	adamantina	SP
6	9872961494c04c3939cc4fa43bfaeb75	adamantina	SP
7	4d32a98e390433a11d785b4078826807	adamantina	SP
8	370e9b111968bd747c429eb56c54c8e3	adamantina	SP
9	a54c7810d4a0a3563f11fb6ce6acf771	adamantina	SP
10	8d530bb376a32c1a88884c941bfa3789	adamantina	SP

Execution finished without errors.
Result: 41746 rows returned in 450ms
At line 1:
SELECT customer_id, customer_city, customer_state

5.



The screenshot shows a SQL query in a text editor with the following code:

```

3  -- WHERE customer_state = 'SP'
4  -- ORDER BY customer_city ASC;
5
6  SELECT order_id, payment_type, payment_value
7  FROM olist_order_payments_dataset
8  WHERE payment_value > 100
9  ORDER BY payment_value DESC;
10
11

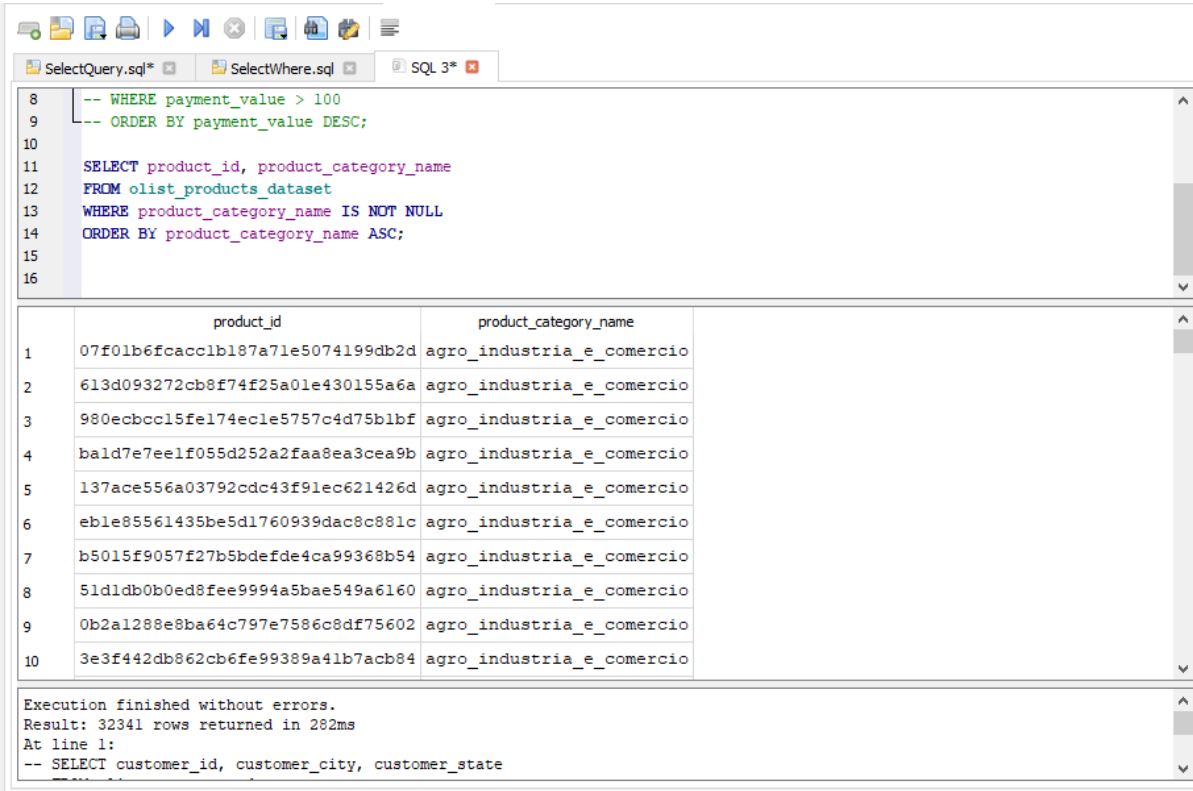
```

Below the query editor, the results are displayed in a table with 10 rows and 3 columns: order_id, payment_type, and payment_value.

	order_id	payment_type	payment_value
1	03caa2c082116e1d31e67e9ae3700499	credit_card	13664.08
2	736e1922ae60d0d6a89247b851902527	boleto	7274.88
3	0812eb902a67711a1cb742b3cdaa65ae	credit_card	6929.31
4	fefacc66af859508bfla7934eable97f	boleto	6922.21
5	f5136e38d1a14a4dbd87dff67da82701	boleto	6726.66
6	2cc9089445046817a7539d90805e6e5a	boleto	6081.54
7	a96610ab360d42a2e5335a3998b4718a	credit_card	4950.34
8	b4c4b76c642808cbe472a32b86cddc95	credit_card	4809.44
9	199af31afc78c699f0dbf71fb178d4d4	credit_card	4764.34
10	8dbc85d1447242f3b127dda390d56e19	credit_card	4681.78

Execution finished without errors.
Result: 51776 rows returned in 761ms
At line 1:
-- SELECT customer_id, customer_city, customer_state

6.



The screenshot shows a SQL query in a text editor with the following code:

```

8  -- WHERE payment_value > 100
9  -- ORDER BY payment_value DESC;
10
11 SELECT product_id, product_category_name
12 FROM olist_products_dataset
13 WHERE product_category_name IS NOT NULL
14 ORDER BY product_category_name ASC;
15
16

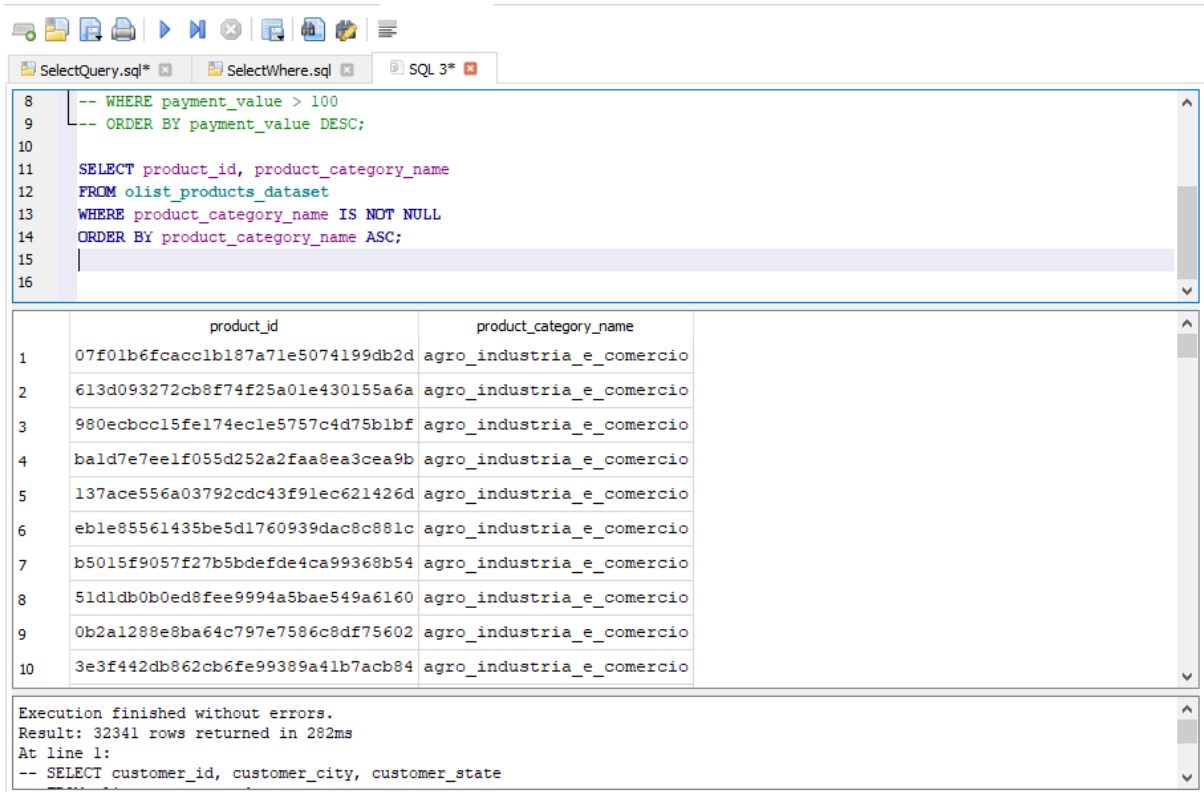
```

Below the query editor, the results are displayed in a table with 10 rows and 2 columns: product_id and product_category_name.

	product_id	product_category_name
1	07f01b6fcacclb187a71e5074199db2d	agro_industria_e_comercio
2	613d093272cb8f74f25a01e430155a6a	agro_industria_e_comercio
3	980ecbcc15fe174ec1e5757c4d75b1bf	agro_industria_e_comercio
4	bal7e7eelf055d252a2faa8ea3cea9b	agro_industria_e_comercio
5	137ace556a03792cdc43f91ec621426d	agro_industria_e_comercio
6	eble85561435be5d1760939dac8c881c	agro_industria_e_comercio
7	b5015f9057f27b5bdefde4ca99368b54	agro_industria_e_comercio
8	51dldb0b0ed8fee9994a5bae549a6160	agro_industria_e_comercio
9	0b2a1288e8ba64c797e7586c8df75602	agro_industria_e_comercio
10	3e3f442db862cb6fe99389a41b7acb84	agro_industria_e_comercio

Execution finished without errors.
Result: 32341 rows returned in 282ms
At line 1:
-- SELECT customer_id, customer_city, customer_state

7.



The screenshot shows a SQL IDE with three tabs: 'SelectQuery.sql*', 'SelectWhere.sql', and 'SQL 3*'. The active tab 'SQL 3*' contains the following SQL query:

```

8  -- WHERE payment_value > 100
9  -- ORDER BY payment_value DESC;
10
11 SELECT product_id, product_category_name
12 FROM olist_products_dataset
13 WHERE product_category_name IS NOT NULL
14 ORDER BY product_category_name ASC;
15
16

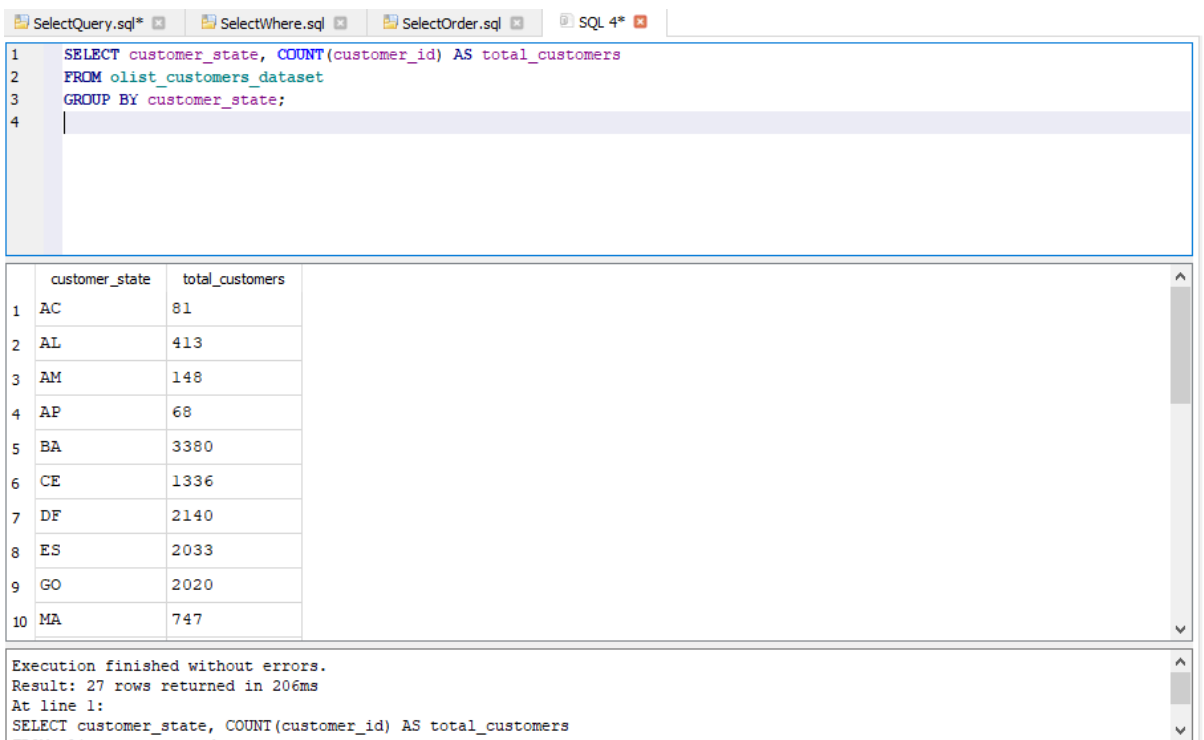
```

The results pane displays a table with two columns: 'product_id' and 'product_category_name'. The table contains 10 rows, all with the category 'agro_industria_e_comercio'.

	product_id	product_category_name
1	07f01b6fcacclb187a71e5074199db2d	agro_industria_e_comercio
2	613d093272cb8f74f25a01e430155a6a	agro_industria_e_comercio
3	980ecbcc15fel74ec1e5757c4d75b1bf	agro_industria_e_comercio
4	bald7e7eelf055d252a2faa8ea3cea9b	agro_industria_e_comercio
5	137ace556a03792cdc43f91ec621426d	agro_industria_e_comercio
6	eble85561435be5d1760939dac8c881c	agro_industria_e_comercio
7	b5015f9057f27b5bdefde4ca99368b54	agro_industria_e_comercio
8	51dlb0b0ed8fee9994a5bae549a6160	agro_industria_e_comercio
9	0b2a1288e8ba64c797e7586c8df75602	agro_industria_e_comercio
10	3e3f442db862cb6fe99389a41b7acb84	agro_industria_e_comercio

Execution finished without errors.
 Result: 32341 rows returned in 282ms
 At line 1:
 -- SELECT customer_id, customer_city, customer_state

8.



The screenshot shows a SQL IDE with three tabs: 'SelectQuery.sql*', 'SelectWhere.sql', and 'SelectOrder.sql'. The active tab 'SQL 4*' contains the following SQL query:

```

1  SELECT customer_state, COUNT(customer_id) AS total_customers
2  FROM olist_customers_dataset
3  GROUP BY customer_state;
4

```

The results pane displays a table with two columns: 'customer_state' and 'total_customers'. The table contains 10 rows, representing different states and their respective customer counts.

	customer_state	total_customers
1	AC	81
2	AL	413
3	AM	148
4	AP	68
5	BA	3380
6	CE	1336
7	DF	2140
8	ES	2033
9	GO	2020
10	MA	747

Execution finished without errors.
 Result: 27 rows returned in 206ms
 At line 1:
 SELECT customer_state, COUNT(customer_id) AS total_customers

9.

SelectQuery.sql
SelectWhere.sql
SelectOrder.sql
SQL 4*

```

1 SELECT customer_state, COUNT(customer_id) AS total_customers
2 FROM olist_customers_dataset
3 GROUP BY customer_state;
4
5 SELECT payment_type, SUM(payment_value) AS total_payment
6 FROM olist_order_payments_dataset
7 GROUP BY payment_type;
8

```

	payment_type	total_payment
1	boleto	2869361.27
2	credit_card	12542084.19
3	debit_card	217989.79
4	not_defined	0.0
5	voucher	379436.87

Execution finished without errors.
Result: 5 rows returned in 212ms
At line 5:
SELECT payment_type, SUM(payment_value) AS total_payment

10.

SelectGroupBy.sql
SQL 5*

```

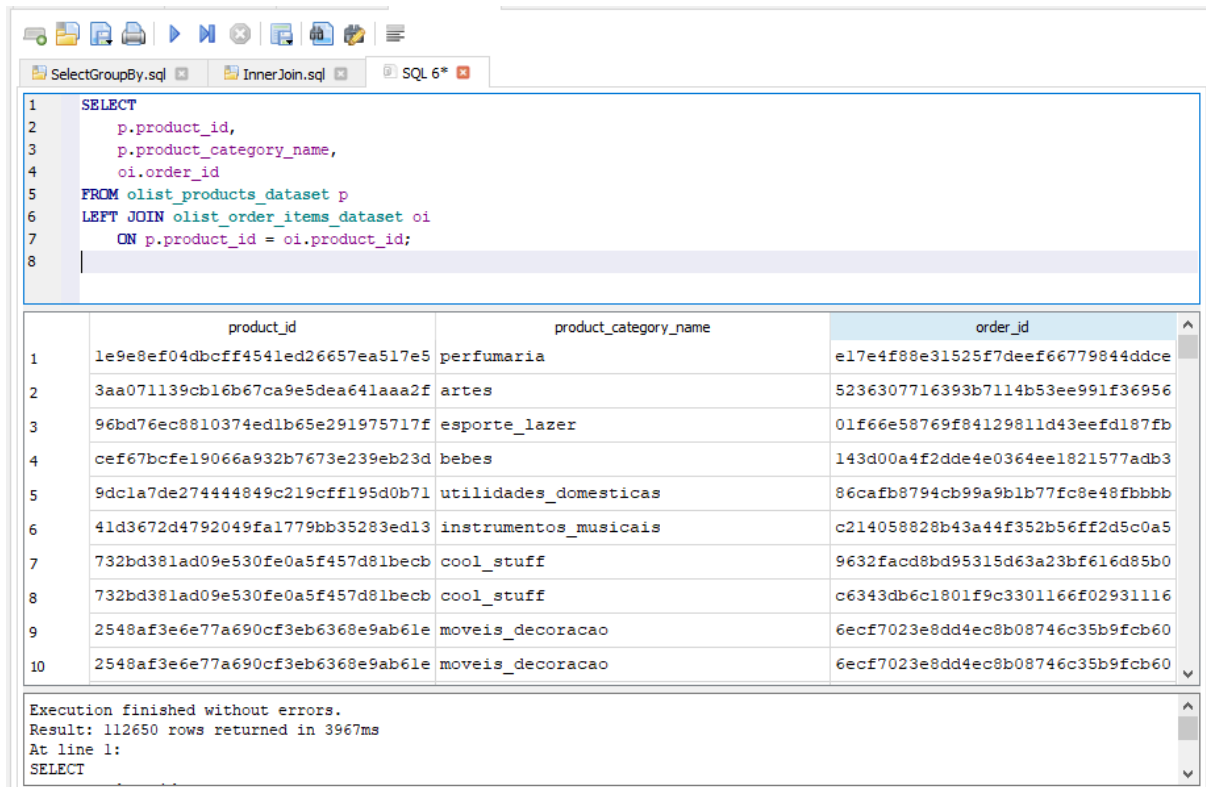
1 SELECT
2     oi.order_id,
3     oi.product_id,
4     p.product_category_name,
5     oi.price
6 FROM olist_order_items_dataset oi
7 INNER JOIN olist_products_dataset p
8     ON oi.product_id = p.product_id;
9

```

	order_id	product_id	product_category_name
1	00010242fe8c5a6d1ba2dd792cb16214	4244733e06e7ecb4970a6e2683c13e61	cool_stuff
2	00018f77f2f0320c557190d7a144bdd3	e5f2d52b802189ee658865ca93d83a8f	pet_shop
3	000229ec398224ef6ca0657da4fc703e	c777355d18b72b67abbeef9df44fd0fd	moveis_decoracao
4	00024acbcdf0a6daale931b038114c75	7634da152a4610f1595efa32f14722fc	perfumaria
5	00042b26cf59d7ce69dfabb4e55b4fd9	ac6c3623068f30de03045865e4e10089	ferramentas_jardim
6	00048cc3ae777c65dbb7d2a0634bc1ea	ef92defde845ab8450f9d70c526ef70f	utilidades_domesticas
7	00054e8431b9d7675808bcb819fb4a32	8d4f2bb7e93e6710a28f34fa83ee7d28	telefonia
8	000576fe39319847cbb9d288c5617fa6	557d850972a7d6f792fd18ael400d9b6	ferramentas_jardim
9	0005a1a1728c9d785b8e2b08b904576c	310ae3c140ff94b03219ad0adc3c778f	beleza_saude

Execution finished without errors.
Result: 112650 rows returned in 1189ms
At line 1:
SELECT

11.



The screenshot shows a SQL IDE with a query editor and a results pane. The query editor contains a SQL query that selects product details from two datasets. The results pane displays a table with 10 rows of data, including product IDs, category names, and order IDs. Below the table, a status message indicates that the execution finished without errors and that 112650 rows were returned in 3967ms.

```

1 SELECT
2     p.product_id,
3     p.product_category_name,
4     oi.order_id
5 FROM olist_products_dataset p
6 LEFT JOIN olist_order_items_dataset oi
7     ON p.product_id = oi.product_id;
8

```

	product_id	product_category_name	order_id
1	1e9e8ef04dbcff4541ed26657ea517e5	perfumaria	e17e4f88e31525f7deef66779844ddce
2	3aa071139cb16b67ca9e5dea641aaa2f	artes	5236307716393b7114b53ee991f36956
3	96bd76ec8810374ed1b65e291975717f	esporte_lazer	01f66e58769f84129811d43eefd187fb
4	cef67bcfe19066a932b7673e239eb23d	bebes	143d00a4f2dde4e0364ee1821577adb3
5	9dcla7de274444849c219cff195d0b71	utilidades_domesticas	86cafb8794cb99a9b1b77fc8e48fbbbb
6	41d3672d4792049fa1779bb35283ed13	instrumentos_musicais	c214058828b43a44f352b56ff2d5c0a5
7	732bd381ad09e530fe0a5f457d81becb	cool_stuff	9632facd8bd95315d63a23bf616d85b0
8	732bd381ad09e530fe0a5f457d81becb	cool_stuff	c6343db6c1801f9c3301166f02931116
9	2548af3e6e77a690cf3eb6368e9ab61e	moveis_decoracao	6ecf7023e8dd4ec8b08746c35b9fcb60
10	2548af3e6e77a690cf3eb6368e9ab61e	moveis_decoracao	6ecf7023e8dd4ec8b08746c35b9fcb60

Execution finished without errors.
Result: 112650 rows returned in 3967ms
At line 1:
SELECT

SQL 1*

```
1 SELECT order_id, payment_value
2 FROM olist_order_payments_dataset
3 WHERE payment_value = (
4     SELECT MAX(payment_value)
5     FROM olist_order_payments_dataset
6 );
7
```

	order_id	payment_value
1	03caa2c082116e1d31e67e9ae3700499	13664.08

Execution finished without errors.
Result: 1 rows returned in 117ms
At line 1:
SELECT order_id, payment_value
FROM olist_order_payments_dataset
WHERE payment_value = (

12.

13.

Subquery.sql SQL 2*

```
1 SELECT
2     SUM(payment_value) AS total_revenue
3 FROM olist_order_payments_dataset;
4
```

	total_revenue
1	16008872.12

Execution finished without errors.
Result: 1 rows returned in 53ms
At line 1:
SELECT
 SUM(payment_value) AS total_revenue
FROM olist_order_payments_dataset;

14.

```
1 SELECT
2     AVG(payment_value) AS avg_payment_value
3 FROM olist_order_payments_dataset;
```

	avg_payment_value
1	154.100380416996

Execution finished without errors.
Result: 1 rows returned in 58ms
At line 6:
SELECT
 AVG(payment_value) AS avg_payment_value
FROM olist_order_payments_dataset;

15.

```

9
10 SELECT
11     payment_type,
12     SUM(payment_value) AS total_payment
13 FROM olist_order_payments_dataset
14 GROUP BY payment_type;
15

```

	payment_type	total_payment
1	boleto	2869361.27
2	credit_card	12542084.19
3	debit_card	217989.79
4	not_defined	0.0
5	voucher	379436.87

Execution finished without errors.
 Result: 5 rows returned in 229ms
 At line 10:
 SELECT
 payment_type,
 SUM(payment_value) AS total_payment
 FROM olist_order_payments_dataset
 GROUP BY payment_type;

16.

Subquery.sql | AggreateFunctions.sql | SQL 3*

```

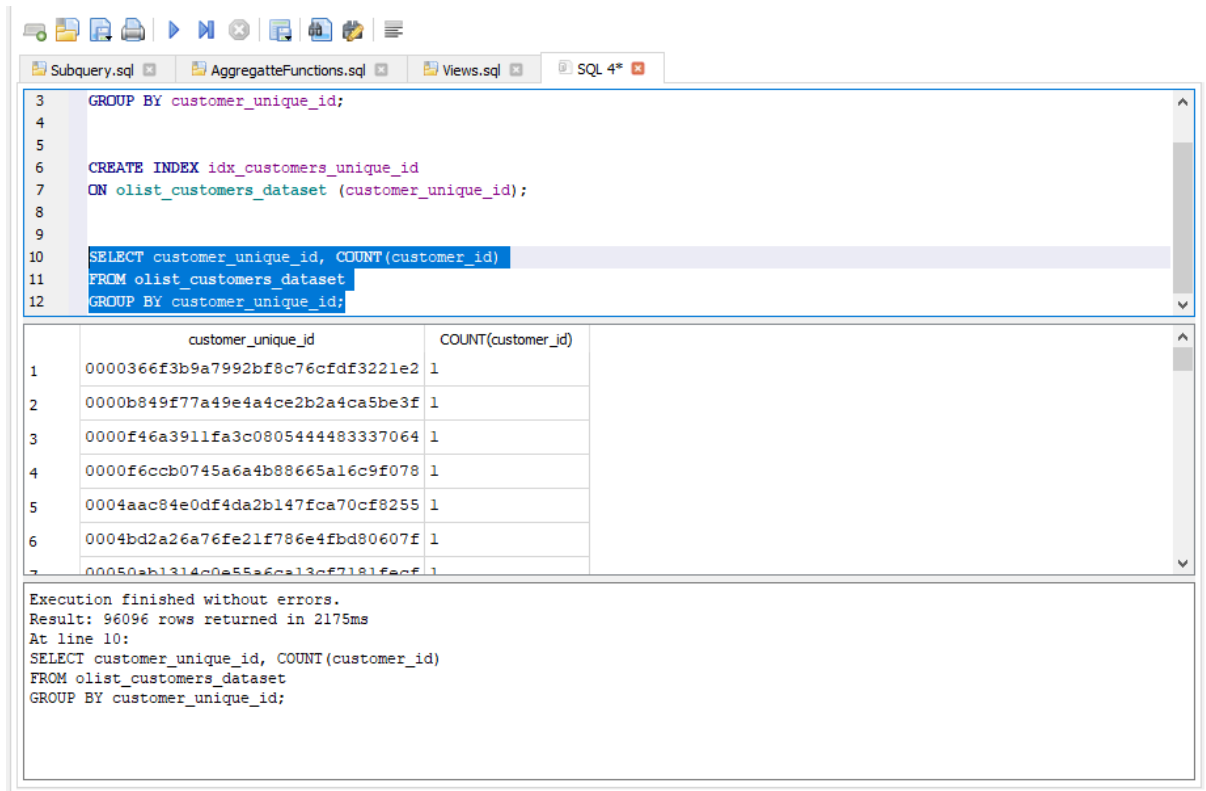
1 CREATE VIEW vw_product_sales AS
2 SELECT
3     product_id,
4     SUM(price) AS total_product_sales
5 FROM olist_order_items_dataset
6 GROUP BY product_id;
7
8 SELECT * FROM vw_product_sales;
9
10

```

	product_id	total_product_sales
1	00066f42aeeb9f3007548bb9d3f33c38	101.65
2	00088930e925c41fd95ebfe695fd2655	129.9
3	0009406fd7479715e4bef61dd91f2462	229.0
4	000b8f95fcb9e0096488278317764d19	117.8
5	000d9be29b5207b54e86aalblac54872	199.0
6	0011c512eb256aa0dbbb544d8dffc6e	52.0
7	00126f27c813603687e6ce486d909d01	498.0

Execution finished without errors.
 Result: 32951 rows returned in 493ms
 At line 8:
 SELECT * FROM vw_product_sales;

17.



The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL code:

```
3 GROUP BY customer_unique_id;
4
5
6 CREATE INDEX idx_customers_unique_id
7 ON olist_customers_dataset (customer_unique_id);
8
9
10 SELECT customer_unique_id, COUNT(customer_id)
11 FROM olist_customers_dataset
12 GROUP BY customer_unique_id;
```

The results pane displays a table with two columns: `customer_unique_id` and `COUNT(customer_id)`. The table contains 6 rows of data:

	customer_unique_id	COUNT(customer_id)
1	0000366f3b9a7992bf8c76cfd3221e2	1
2	0000b849f77a49e4a4ce2b2a4ca5be3f	1
3	0000f46a3911fa3c0805444483337064	1
4	0000f6ccb0745a6a4b88665a16c9f078	1
5	0004aac84e0df4da2b147fca70cf8255	1
6	0004bd2a26a76fe21f786e4fbd80607f	1

Below the table, the execution status is shown:

Execution finished without errors.
Result: 96096 rows returned in 2175ms
At line 10:
SELECT customer_unique_id, COUNT(customer_id)
FROM olist_customers_dataset
GROUP BY customer_unique_id;