

Análise de dados com SQL na base de dados do e-commerce Olist

Quais as categorias distintas de produtos?

Existem 74 categorias distintas de produtos.

The screenshot shows a data analysis interface with two main panels. The top panel displays an SQL query in a script editor, and the bottom panel shows the results of the query in a table format.

SQL Query:

```
SELECT
  DISTINCT product_category_name
FROM
  olist_products_dataset opd;
```

Query Results:

Grade	product_category_name
1	perfumaria
2	artes
3	esporte_lazer
4	bebes
5	utilidades_domesticas
6	instrumentos_musicais
7	cool_stuff
8	moveis_decoracao
9	eletrodomesticos
10	brinquedos
11	cama_mesa_banho
12	construcao_ferramentas_segura
13	informatica_acessorios
14	beleza_saude
15	malas_acessorios
16	ferramentas_jardim
17	moveis_escritorio

The interface includes a sidebar with icons for various functions, a search bar, and a bottom toolbar with buttons for 'Atualizar', 'Salvar', 'Cancelar', and 'Exportar dados'. The bottom right corner shows a page number of 74.

Quantos pedidos tive
por categoria?

Conta quantos
pedidos foram feitos
para cada categoria
de produto.

The screenshot shows a database interface with two panes. The top pane displays an SQL query in a script editor, and the bottom pane shows the results of the query in a table view.

SQL Query:

```
SELECT
    opd.product_category_name,
    COUNT(ooid.order_id) AS qtd_pedidos
FROM
    olist_orders_dataset ooid
LEFT JOIN
    olist_order_items_dataset ooid
ON
    ooid.order_id = ooid.order_id
LEFT JOIN
    olist_products_dataset opd
ON
    ooid.product_id = opd.product_id
WHERE
    opd.product_category_name <> ""
GROUP BY
    opd.product_category_name
ORDER BY
    qtd_pedidos DESC;
```

Table View:

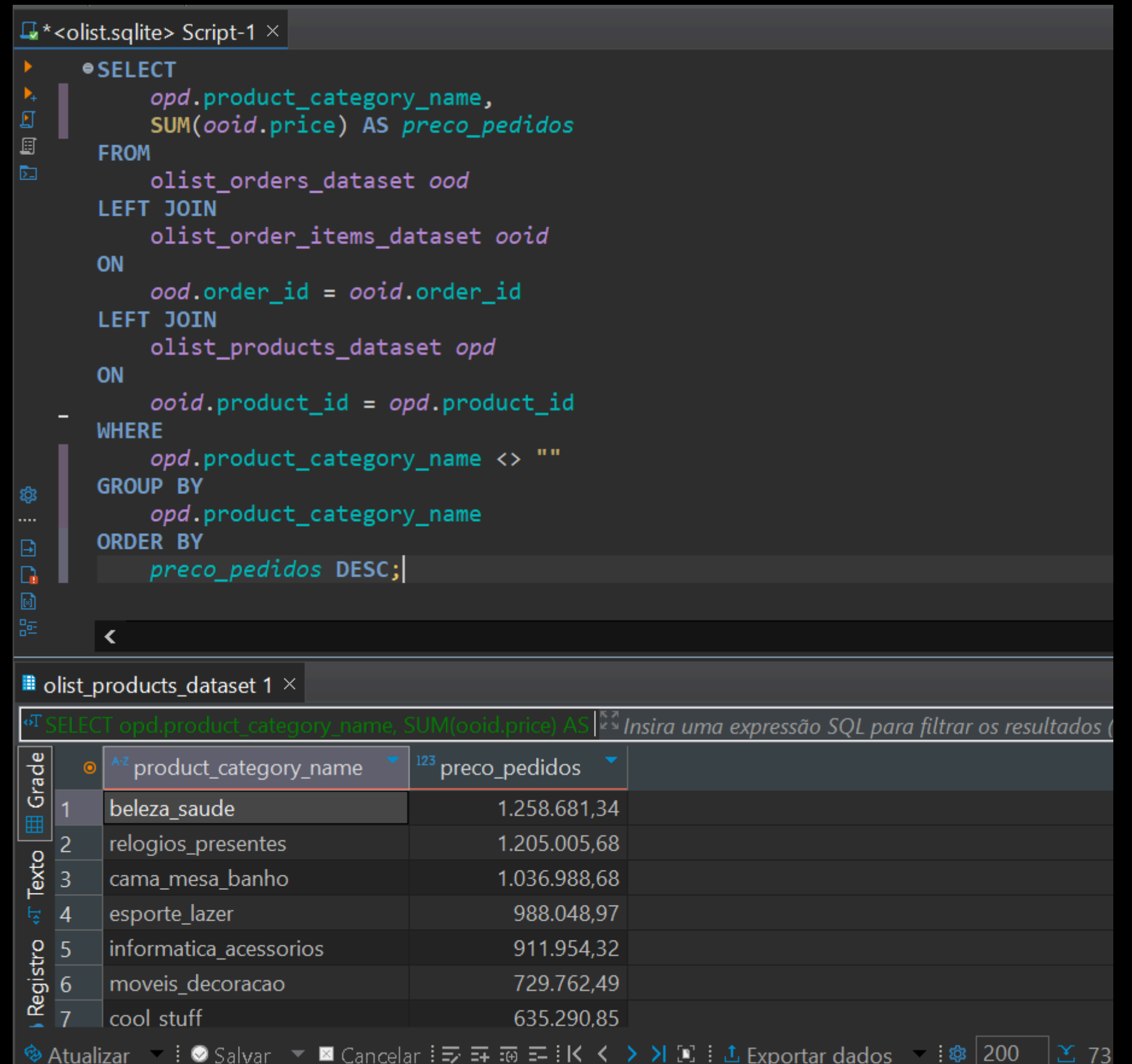
The table view shows the results of the query. The columns are 'product_category_name' and 'qtd_pedidos'. The results are sorted by 'qtd_pedidos' in descending order.

Grade	product_category_name	qtd_pedidos
1	cama_mesa_banho	11.115
2	beleza_saude	9.670
3	esporte_lazer	8.641
4	moveis_decoracao	8.334
5	informatica_acessorios	7.827
6	utilidades_domesticas	6.964
7	relogios_presentes	5.991
8	telefonia	4.545

The interface includes a sidebar with icons for various database operations and a bottom toolbar with buttons for 'Atualizar', 'Salvar', 'Cancelar', and 'Exportar dados'.

Qual a quantidade
vendida por
categoria?

Soma os preços
dos pedidos por
categoria.



The screenshot shows a SQL IDE interface. The top pane displays a SQL query in a script editor. The query is a SELECT statement that joins three tables: olist_orders_dataset (ood), olist_order_items_dataset (oid), and olist_products_dataset (opd). It calculates the sum of prices for each product category and orders the results in descending order of total price. The bottom pane shows the results of the query in a table view. The table has two columns: product_category_name and preco_pedidos. The results are sorted by preco_pedidos in descending order, showing the top 7 categories.

```
SELECT
    opd.product_category_name,
    SUM(oid.price) AS preco_pedidos
FROM
    olist_orders_dataset ood
LEFT JOIN
    olist_order_items_dataset oid
ON
    ood.order_id = oid.order_id
LEFT JOIN
    olist_products_dataset opd
ON
    oid.product_id = opd.product_id
WHERE
    opd.product_category_name <> ""
GROUP BY
    opd.product_category_name
ORDER BY
    preco_pedidos DESC;
```

	product_category_name	preco_pedidos
1	beleza_saude	1.258.681,34
2	relogios_presentes	1.205.005,68
3	cama_mesa_banho	1.036.988,68
4	esporte_lazer	988.048,97
5	informatica_acessorios	911.954,32
6	moveis_decoracao	729.762,49
7	cool_stuff	635.290,85

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Quais as top 5 categorias de produtos considerando a quantidade de pedidos?

Lista as 5 categorias com maior número de pedidos.

The screenshot shows a data analysis interface with two main panes. The top pane, titled '*<olist.sqlite> Script-1', contains an SQL query. The query selects the product category name and the count of orders (aliased as qtd_pedidos) from the olist_orders_dataset, joined with olist_order_items_dataset and olist_products_dataset. It filters out empty category names, groups by category name, orders by the count in descending order, and limits the results to the top 5. The bottom pane, titled 'olist_products_dataset 1', displays the results of the query in a table format. The table has two columns: 'product_category_name' and 'qtd_pedidos'. The results show the top 5 categories: 'cama_mesa_banho' (11.115), 'beleza_saude' (9.670), 'esporte_lazer' (8.641), 'moveis_decoracao' (8.334), and 'informatica_acessorios' (7.827). The interface includes a sidebar with icons for various functions, a search bar, and a bottom toolbar with buttons for 'Atualizar', 'Salvar', 'Cancelar', and 'Exportar dados'.

```
SELECT
    opd.product_category_name,
    COUNT(ooid.order_id) AS qtd_pedidos
FROM
    olist_orders_dataset ooid
LEFT JOIN
    olist_order_items_dataset ooid
ON
    ooid.order_id = ooid.order_id
LEFT JOIN
    olist_products_dataset opd
ON
    ooid.product_id = opd.product_id
WHERE
    opd.product_category_name <> ""
GROUP BY
    opd.product_category_name
ORDER BY
    qtd_pedidos DESC
LIMIT 5;
```

	product_category_name	qtd_pedidos
1	cama_mesa_banho	11.115
2	beleza_saude	9.670
3	esporte_lazer	8.641
4	moveis_decoracao	8.334
5	informatica_acessorios	7.827

Quais as top 5 categorias de produtos considerando a quantidade vendida?

Mostra as 5 categorias com maior valor total vendido.

Script-1

```
SELECT
    opd.product_category_name,
    SUM(oid.price) AS preco_pedidos
FROM
    olist_orders_dataset ood
LEFT JOIN
    olist_order_items_dataset oid
ON
    ood.order_id = oid.order_id
LEFT JOIN
    olist_products_dataset opd
ON
    oid.product_id = opd.product_id
WHERE
    opd.product_category_name <> ""
GROUP BY
    opd.product_category_name
ORDER BY
    preco_pedidos DESC
LIMIT 5;
```

olist_products_dataset 1

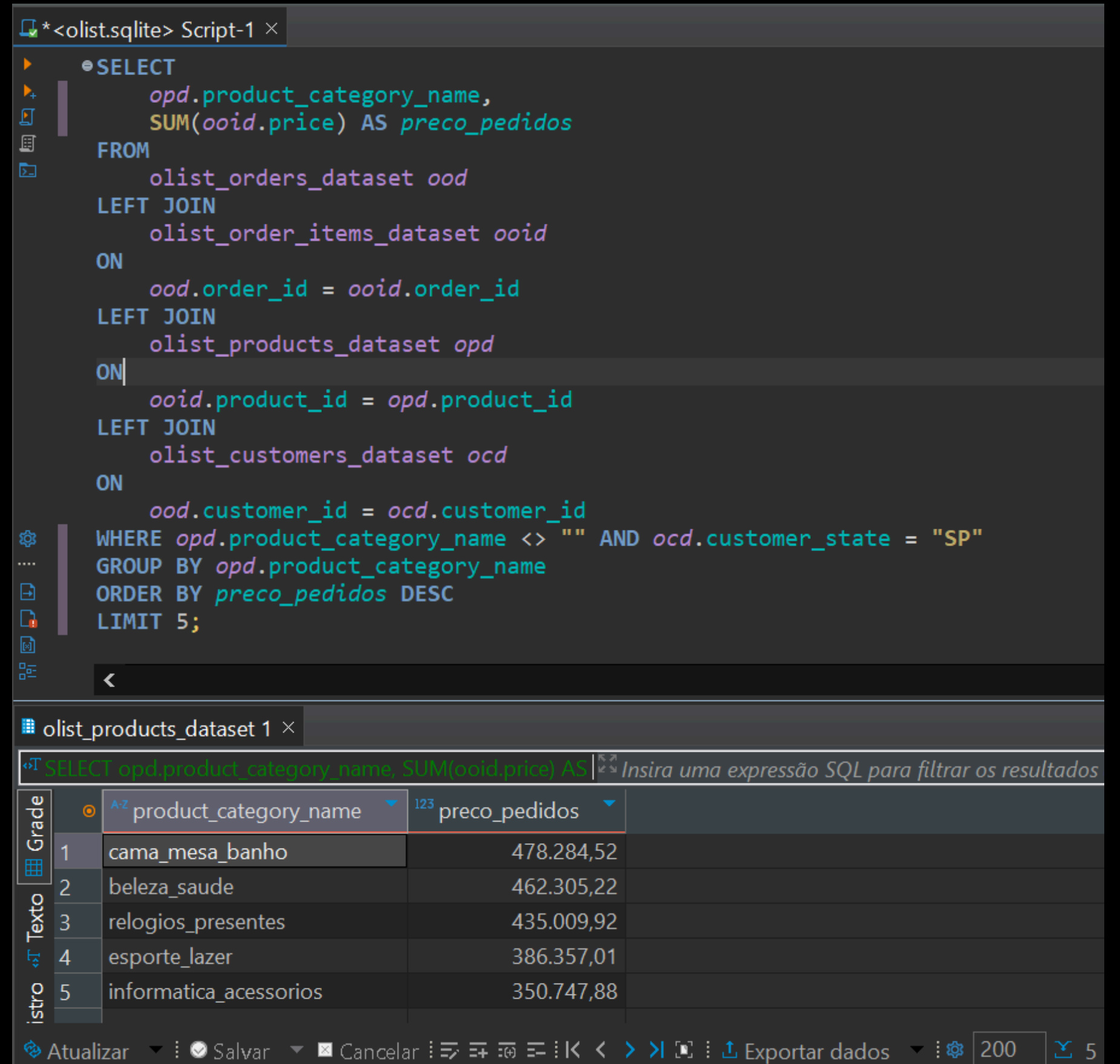
SELECT opd.product_category_name, SUM(oid.price) AS *Insira uma expressão SQL para filtrar os resultados*

	product_category_name	preco_pedidos
1	beleza_saude	1.258.681,34
2	relogios_presentes	1.205.005,68
3	cama_mesa_banho	1.036.988,68
4	esporte_lazer	988.048,97
5	informatica_acessorios	911.954,32

Atualizar Salvar Cancelar Exportar dados 200 5

Quais as top 5 categorias mais vendidas no estado de São Paulo?

Considera apenas pedidos com destino ao estado de SP e soma o valor dos produtos por categoria.



The screenshot shows a SQL query editor window titled "*<olist.sqlite> Script-1" and a results window titled "olist_products_dataset 1".

The SQL query in the editor is:

```
SELECT
    opd.product_category_name,
    SUM(ooid.price) AS preco_pedidos
FROM
    olist_orders_dataset ood
LEFT JOIN
    olist_order_items_dataset ooid
ON
    ood.order_id = ooid.order_id
LEFT JOIN
    olist_products_dataset opd
ON
    ooid.product_id = opd.product_id
LEFT JOIN
    olist_customers_dataset ocd
ON
    ood.customer_id = ocd.customer_id
WHERE opd.product_category_name <> "" AND ocd.customer_state = "SP"
GROUP BY opd.product_category_name
ORDER BY preco_pedidos DESC
LIMIT 5;
```

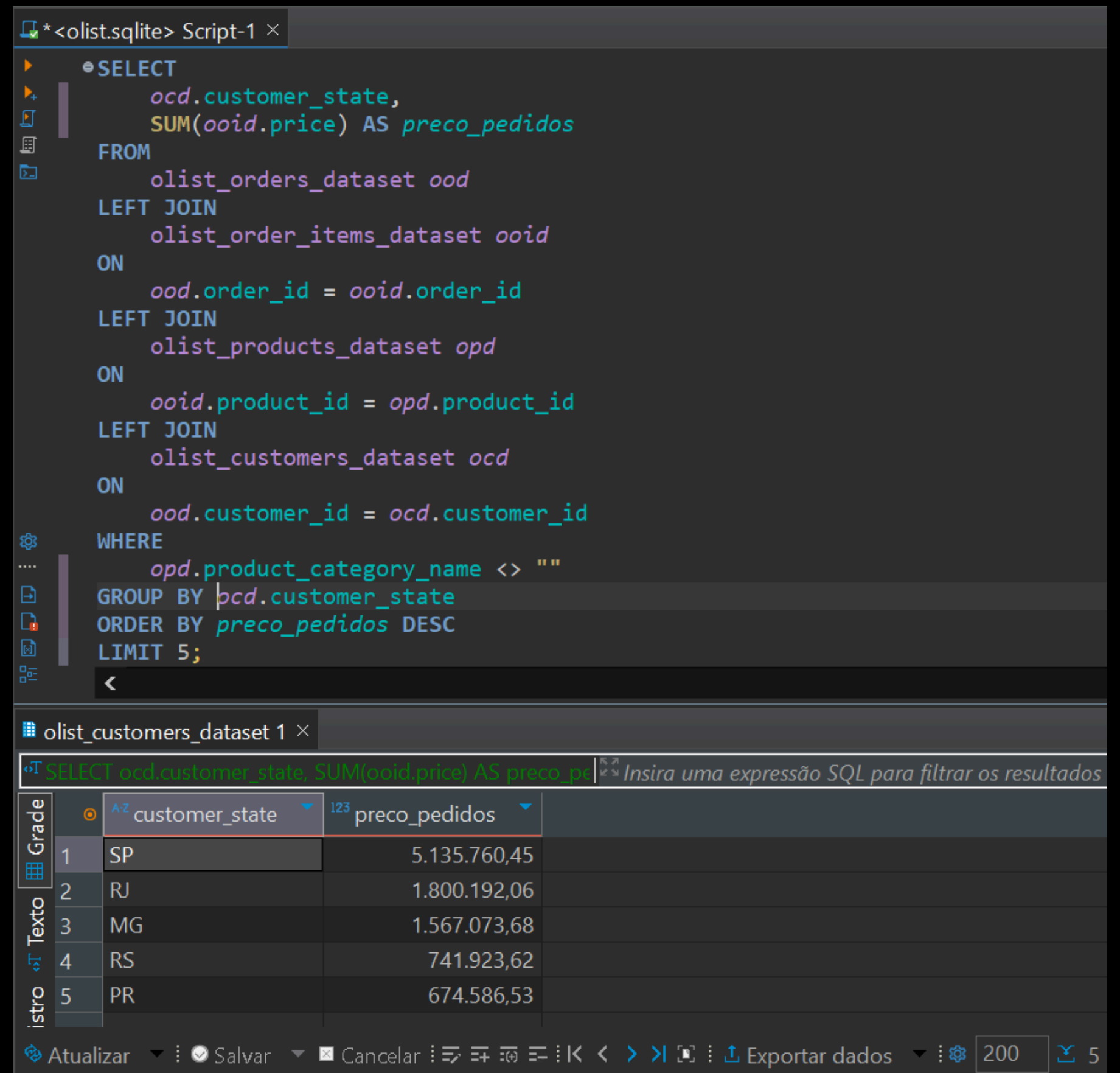
The results window displays the following table:

	product_category_name	preco_pedidos
1	cama_mesa_banho	478.284,52
2	beleza_saude	462.305,22
3	relogios_presentes	435.009,92
4	esporte_lazer	386.357,01
5	informatica_acessorios	350.747,88

The bottom of the interface shows a toolbar with buttons: Atualizar, Salvar, Cancelar, and Exportar dados. The bottom right corner displays the number of rows (200) and the number of columns (5).

Quais os top 5 estados com mais vendas?

Mostra os 5 estados com maior soma dos preços dos pedidos.



The screenshot shows a SQL query editor window titled '*<olist.sqlite> Script-1'. The query is as follows:

```
SELECT
    ocd.customer_state,
    SUM(oid.price) AS preco_pedidos
FROM
    olist_orders_dataset ood
LEFT JOIN
    olist_order_items_dataset oid
ON
    ood.order_id = oid.order_id
LEFT JOIN
    olist_products_dataset opd
ON
    oid.product_id = opd.product_id
LEFT JOIN
    olist_customers_dataset ocd
ON
    ood.customer_id = ocd.customer_id
WHERE
    opd.product_category_name <> ""
GROUP BY ocd.customer_state
ORDER BY preco_pedidos DESC
LIMIT 5;
```

Below the query editor, a results window titled 'olist_customers_dataset 1' displays the following data:

	customer_state	preco_pedidos
1	SP	5.135.760,45
2	RJ	1.800.192,06
3	MG	1.567.073,68
4	RS	741.923,62
5	PR	674.586,53

The bottom of the interface shows a toolbar with buttons: Atualizar, Salvar, Cancelar, and Exportar dados. There are also navigation icons and a page indicator showing '200' and '5'.