

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 panes. The top pane displays an SQL query in a script editor:

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

The bottom pane shows the results of the query in a table view. The table has two columns: 'product_category_name' and an empty column. The results are sorted alphabetically and show the first 17 categories. The interface includes a sidebar with icons for different views (Table, Grid, Text, Registro) and a bottom toolbar with buttons for 'Atualizar', 'Salvar', 'Cancelar', and 'Exportar dados'. The bottom right corner shows the total number of records as 74.

	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	

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:

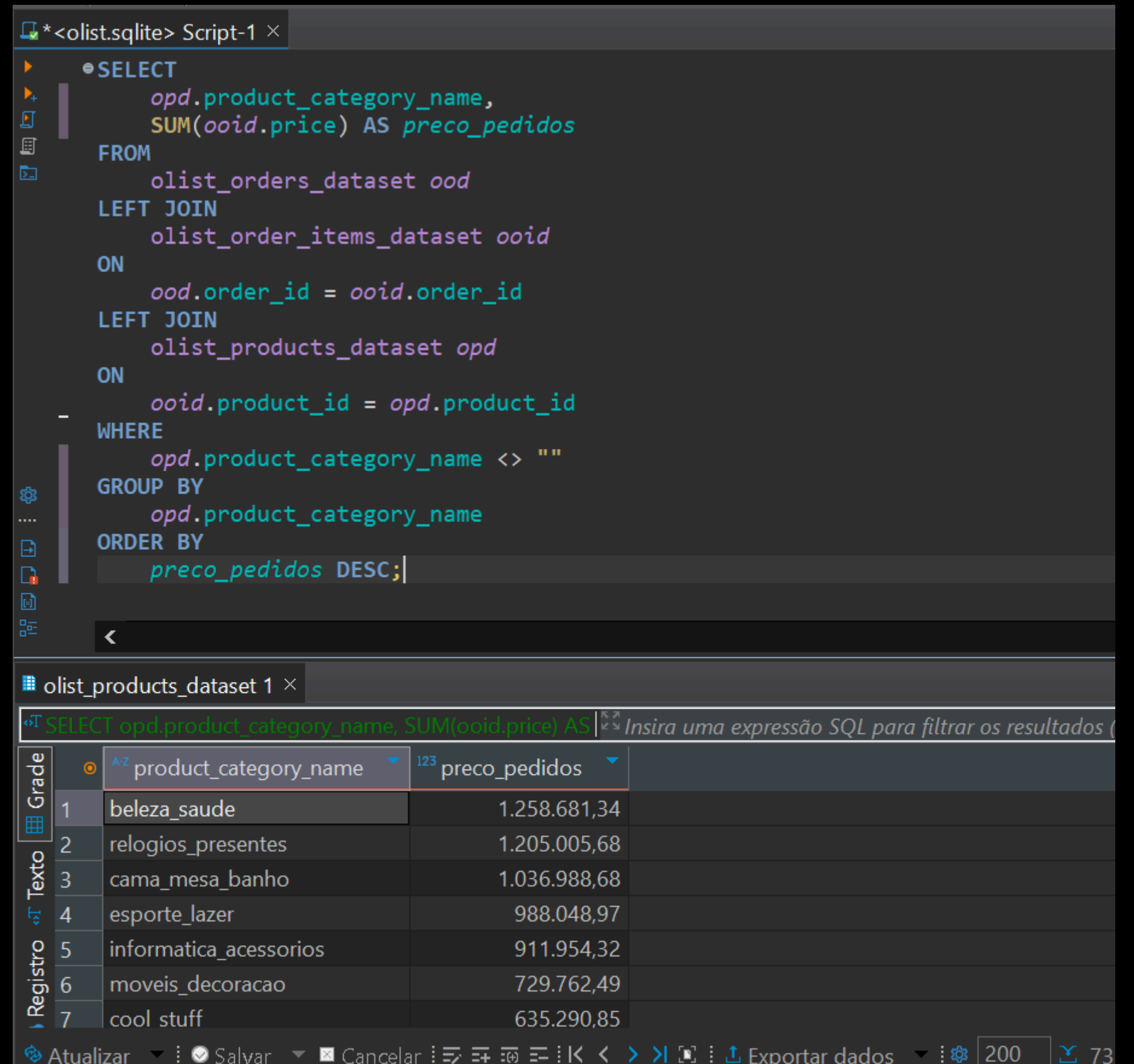
The table view shows the results of the query. The columns are 'product_category_name' and 'qtd_pedidos'. The results are sorted by 'qtd_pedidos' in descending order.

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 with two panes. The top pane displays a 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,
    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
WHERE
    opd.product_category_name <> ""
GROUP BY
    opd.product_category_name
ORDER BY
    preco_pedidos DESC;
```

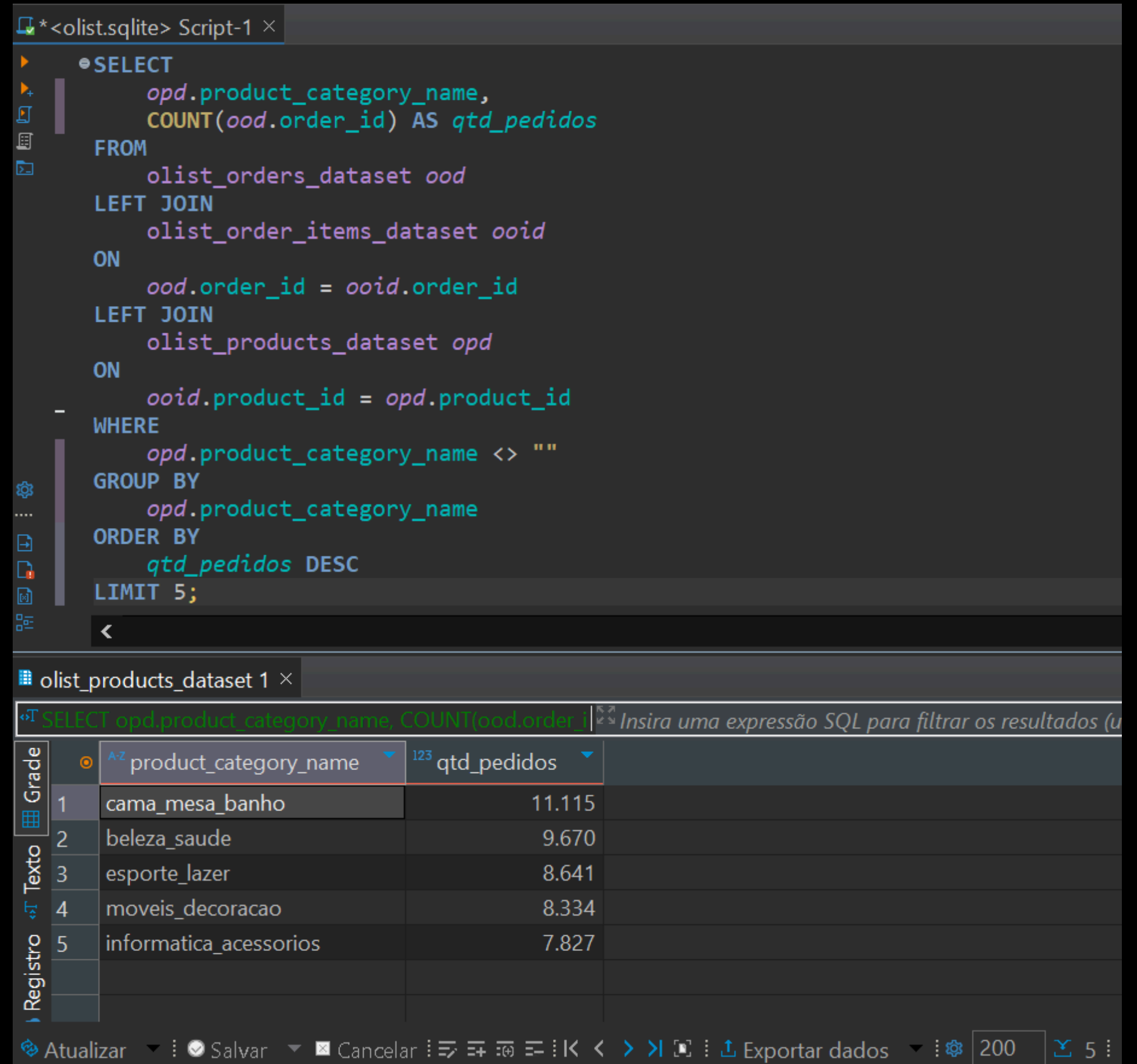
Query Results:

	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

The bottom pane also includes a toolbar with buttons for 'Atualizar', 'Salvar', 'Cancelar', and 'Exportar dados', along with a page number '200' and a total count '73'.

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 database tool interface with two panes. The top pane, titled '*<olist.sqlite> Script-1', contains a SQL query. The query selects the product category name and the count of orders (aliased as qtd_pedidos) from the olist_orders_dataset (ooid) and olist_products_dataset (opd) tables, joined on order_id and product_id. It filters out empty category names, groups by category name, orders by the count in descending order, and limits the results to 5.

```
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;
```

The bottom pane, titled 'olist_products_dataset 1', displays the results of the query in a table. The table has two columns: 'product_category_name' and 'qtd_pedidos'. The results are sorted in descending order of the number of orders.

	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

The bottom pane also includes a search bar with the text 'Insira uma expressão SQL para filtrar os resultados (u' and a status bar at the bottom with buttons for 'Atualizar', 'Salvar', 'Cancelar', and 'Exportar dados', along with a page number '200' and a limit '5'.

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

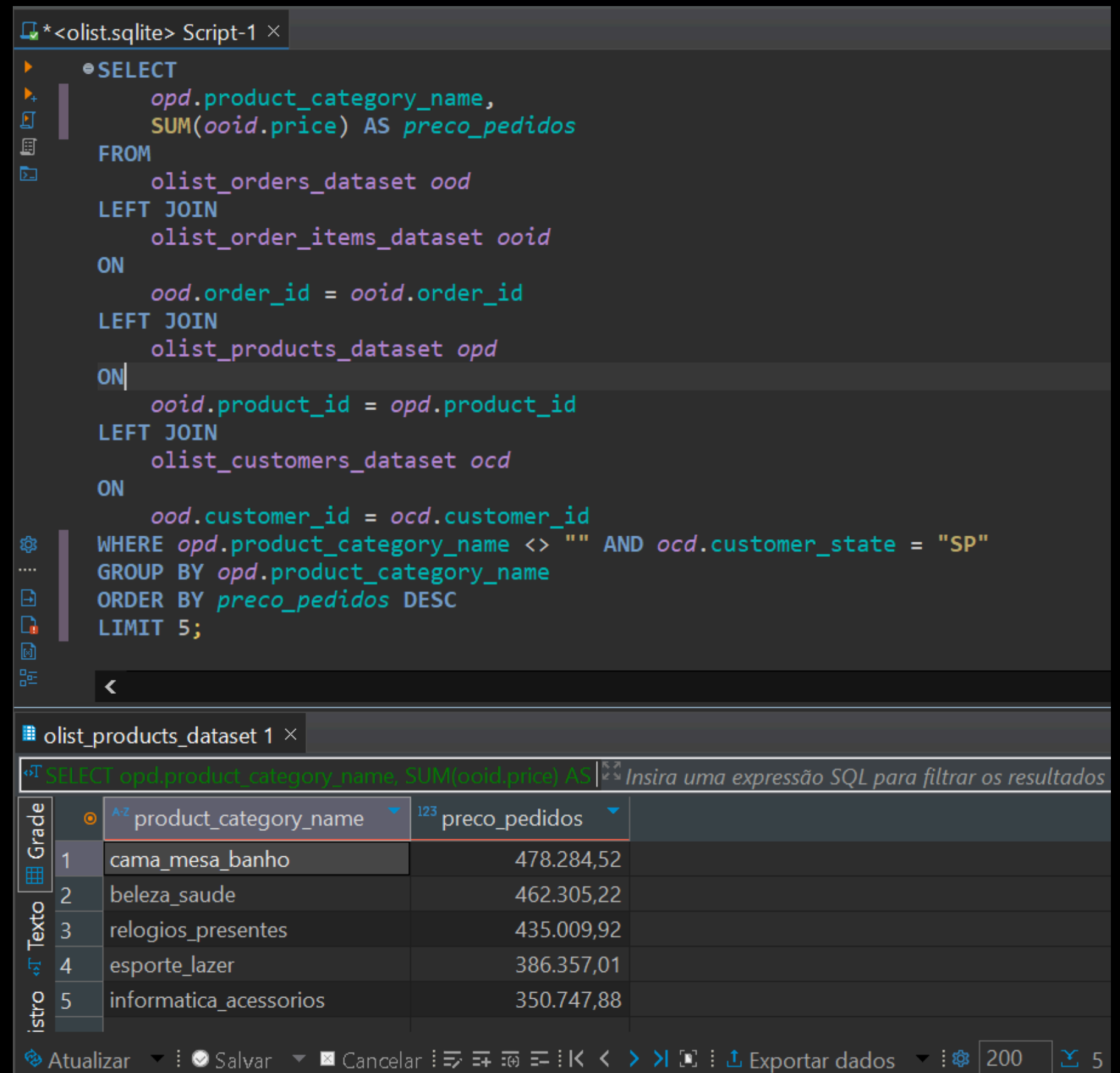
SELECT opd.product_category_name, SUM(oid.price) AS *Insira uma expressão SQL para filtrar os resultados*

	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 os top 5 produtos mais vendidos 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 IDE interface with two panes. The top pane displays a SQL query, and the bottom pane shows the results of the query in a table format.

SQL Query:

```
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;
```

Results 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 pane also includes a toolbar with buttons for 'Atualizar', 'Salvar', 'Cancelar', and 'Exportar dados', along with a page number '200' and a limit '5'.

Quais os top 5 estados com mais vendas?

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

```
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;
```

olist_customers_dataset 1 ×

SELECT ocd.customer_state, SUM(oid.price) AS preco_pedidos

Insira uma expressão SQL para filtrar os resultados

	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

Atualizar Salvar Cancelar Exportar dados 200 5