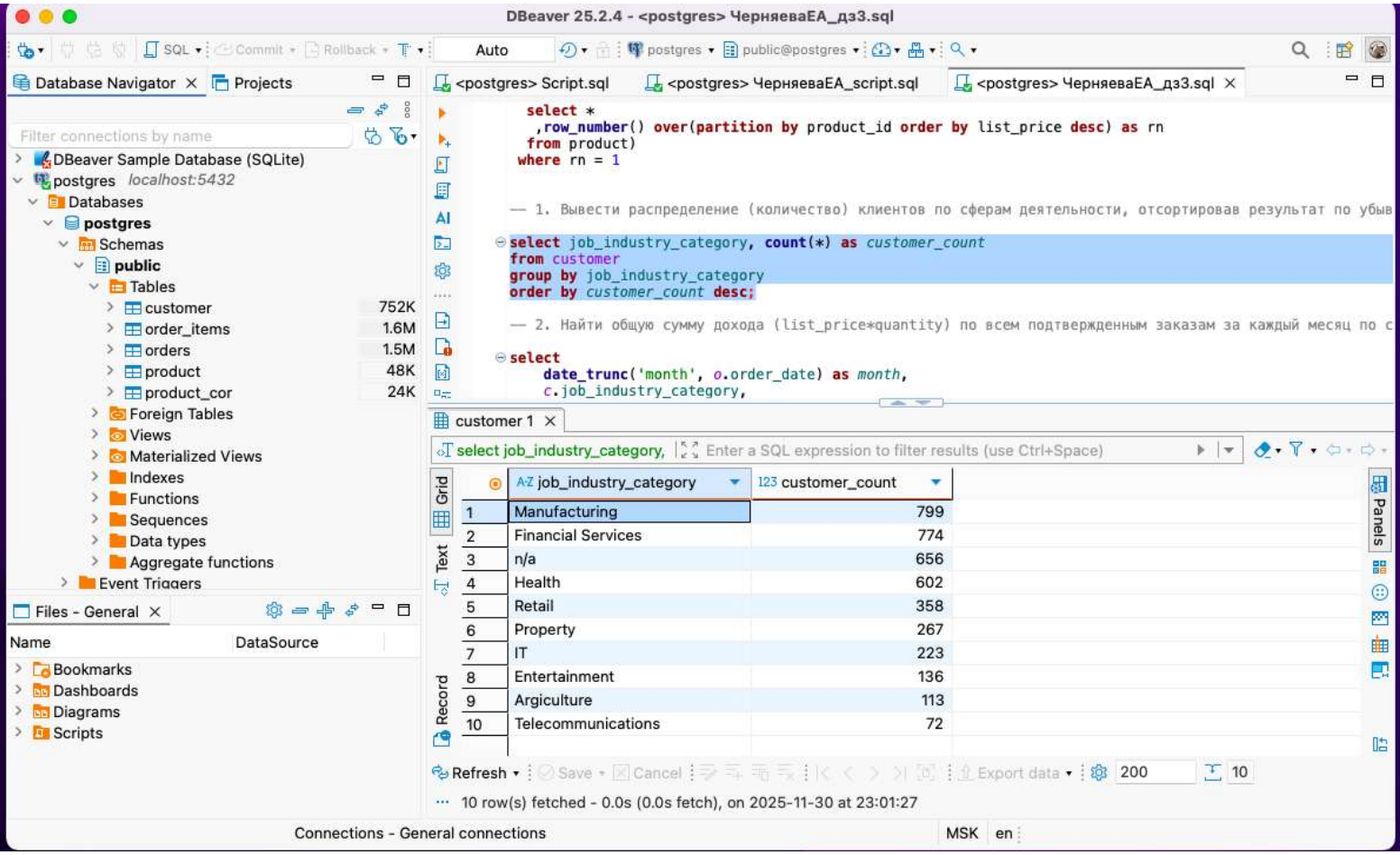
DBeaver 25.2.4 - <postgres> ЧерняеваЕА_дз3.sql
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orders 1.5M
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product_cor 24K
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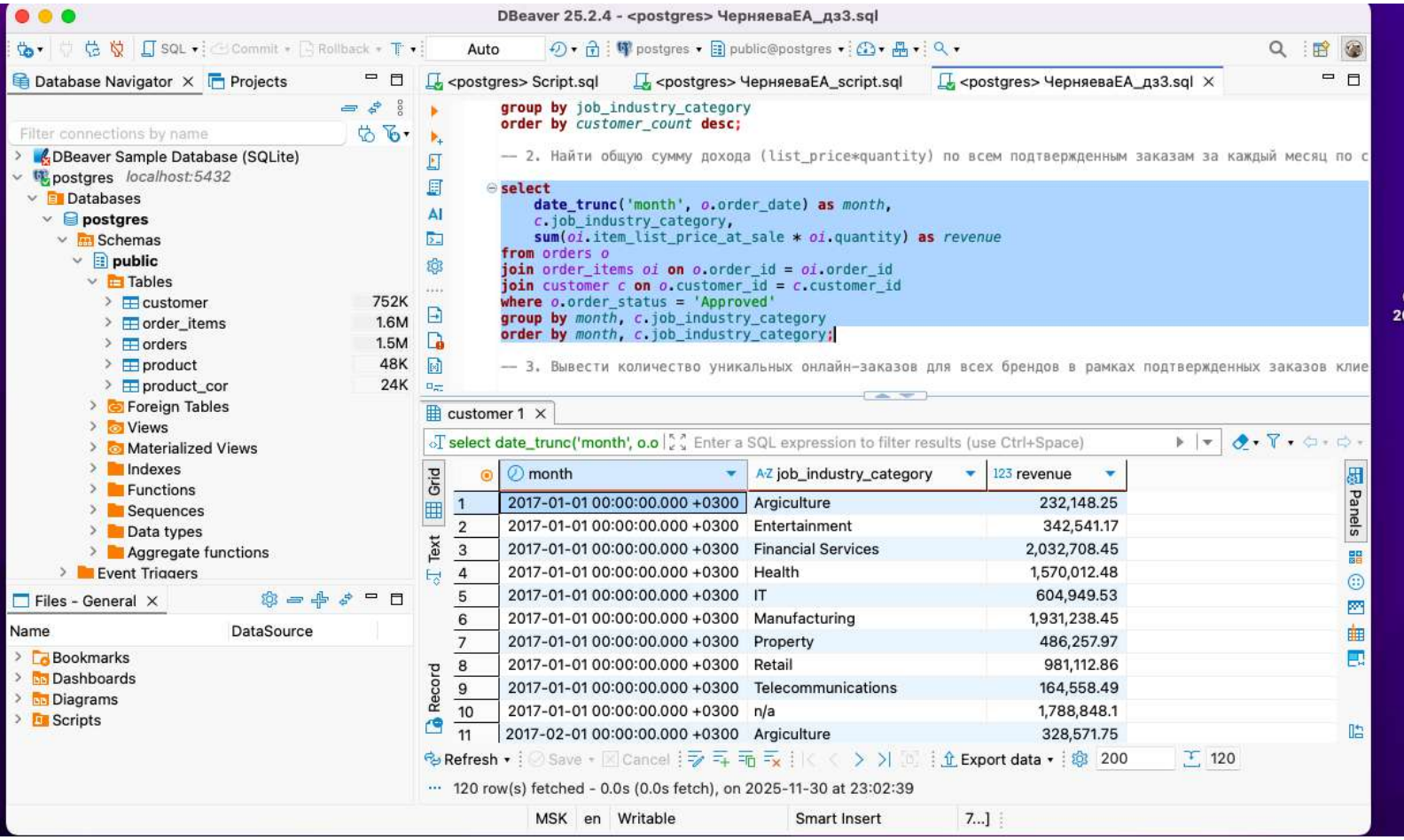
<postgres> Script.sql
<postgres> ЧерняеваЕА_script.sql
<postgres> ЧерняеваЕА_дз3.sql
select *
,row_number() over(partition by product_id order by list_price desc) as rn
from product)
where rn = 1
— 1. Вывести распределение (количество) клиентов по сферам деятельности, отсортировав результат по убыв
select job_industry_category, count(*) as customer_count
from customer
group by job_industry_category
order by customer_count desc;
— 2. Найти общую сумму дохода (list_price*quantity) по всем подтвержденным заказам за каждый месяц по с
select
date_trunc('month', o.order_date) as month,
c.job_industry_category,
customer 1
select job_industry_category,
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
Record
Panels
job_industry_category
customer_count
1 Manufacturing 799
2 Financial Services 774
3 n/a 656
4 Health 602
5 Retail 358
6 Property 267
7 IT 223
8 Entertainment 136
9 Argiculture 113
10 Telecommunications 72
Refresh
Save
Cancel
Export data
200
10
10 row(s) fetched - 0.0s (0.0s fetch), on 2025-11-30 at 23:01:27
Connections - General connections
MSK
en


DBeaver 25.2.4 - <postgres> ЧерняеваEA_дз3.sql
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DBeaver Sample Database (SQLite)
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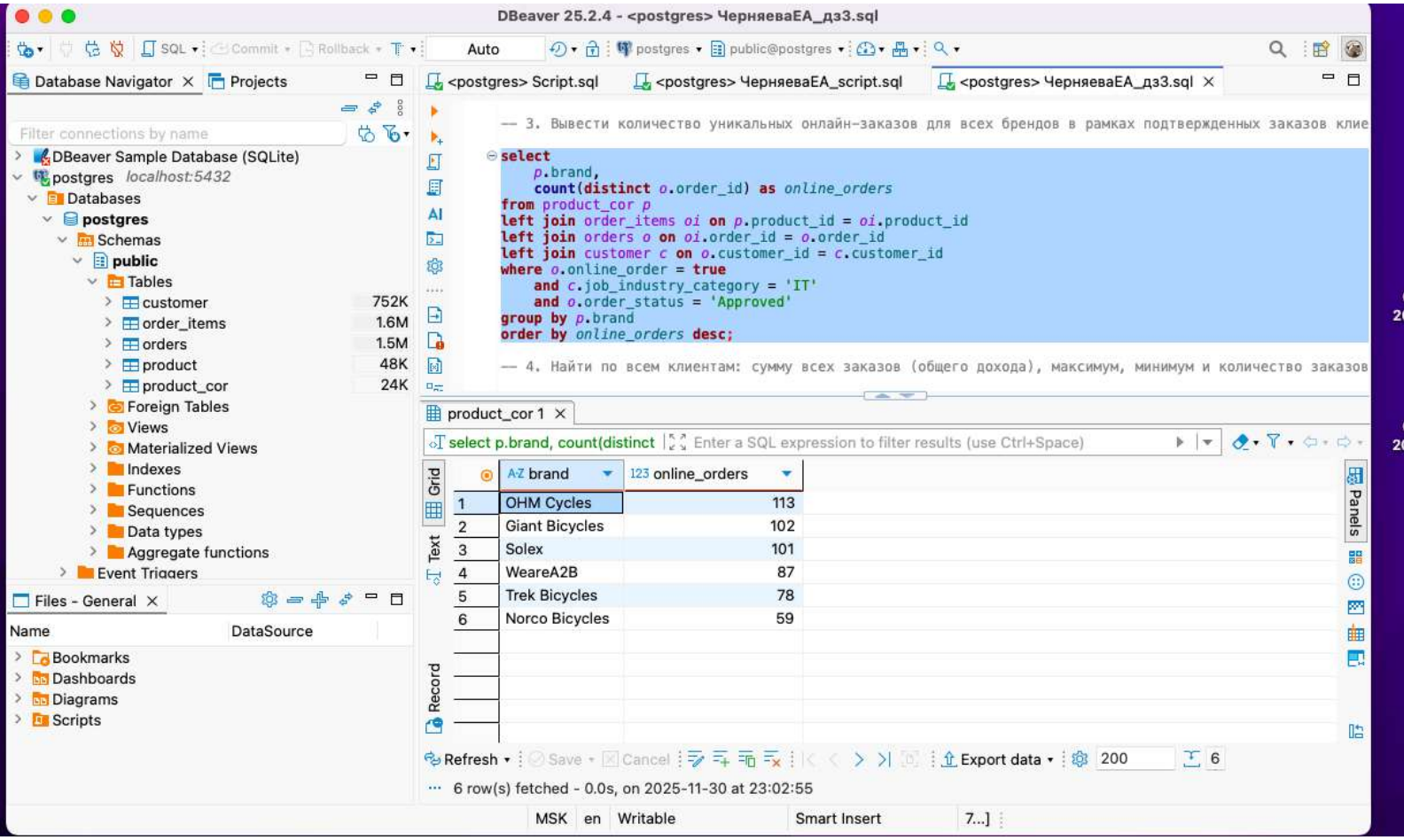
<postgres> Script.sql
<postgres> ЧерняеваEA_script.sql
<postgres> ЧерняеваEA_дз3.sql
group by job_industry_category
order by customer_count desc;
— 2. Найти общую сумму дохода (list_price*quantity) по всем подтвержденным заказам за каждый месяц по с
select
date_trunc('month', o.order_date) as month,
c.job_industry_category,
sum(oi.item_list_price_at_sale * oi.quantity) as revenue
from orders o
join order_items oi on o.order_id = oi.order_id
join customer c on o.customer_id = c.customer_id
where o.order_status = 'Approved'
group by month, c.job_industry_category
order by month, c.job_industry_category;
— 3. Вывести количество уникальных онлайн-заказов для всех брендов в рамках подтвержденных заказов клие
customer 1
select date_trunc('month', o.o
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
Record
Panels
month
job_industry_category
revenue
1 2017-01-01 00:00:00.000 +0300 Argiculture 232,148.25
2 2017-01-01 00:00:00.000 +0300 Entertainment 342,541.17
3 2017-01-01 00:00:00.000 +0300 Financial Services 2,032,708.45
4 2017-01-01 00:00:00.000 +0300 Health 1,570,012.48
5 2017-01-01 00:00:00.000 +0300 IT 604,949.53
6 2017-01-01 00:00:00.000 +0300 Manufacturing 1,931,238.45
7 2017-01-01 00:00:00.000 +0300 Property 486,257.97
8 2017-01-01 00:00:00.000 +0300 Retail 981,112.86
9 2017-01-01 00:00:00.000 +0300 Telecommunications 164,558.49
10 2017-01-01 00:00:00.000 +0300 n/a 1,788,848.1
11 2017-02-01 00:00:00.000 +0300 Argiculture 328,571.75
Refresh
Save
Cancel
Export data
200
120
120 row(s) fetched - 0.0s (0.0s fetch), on 2025-11-30 at 23:02:39
MSK
en
Writable
Smart Insert


DBeaver 25.2.4 - <postgres> ЧерняеваЕА_дз3.sql
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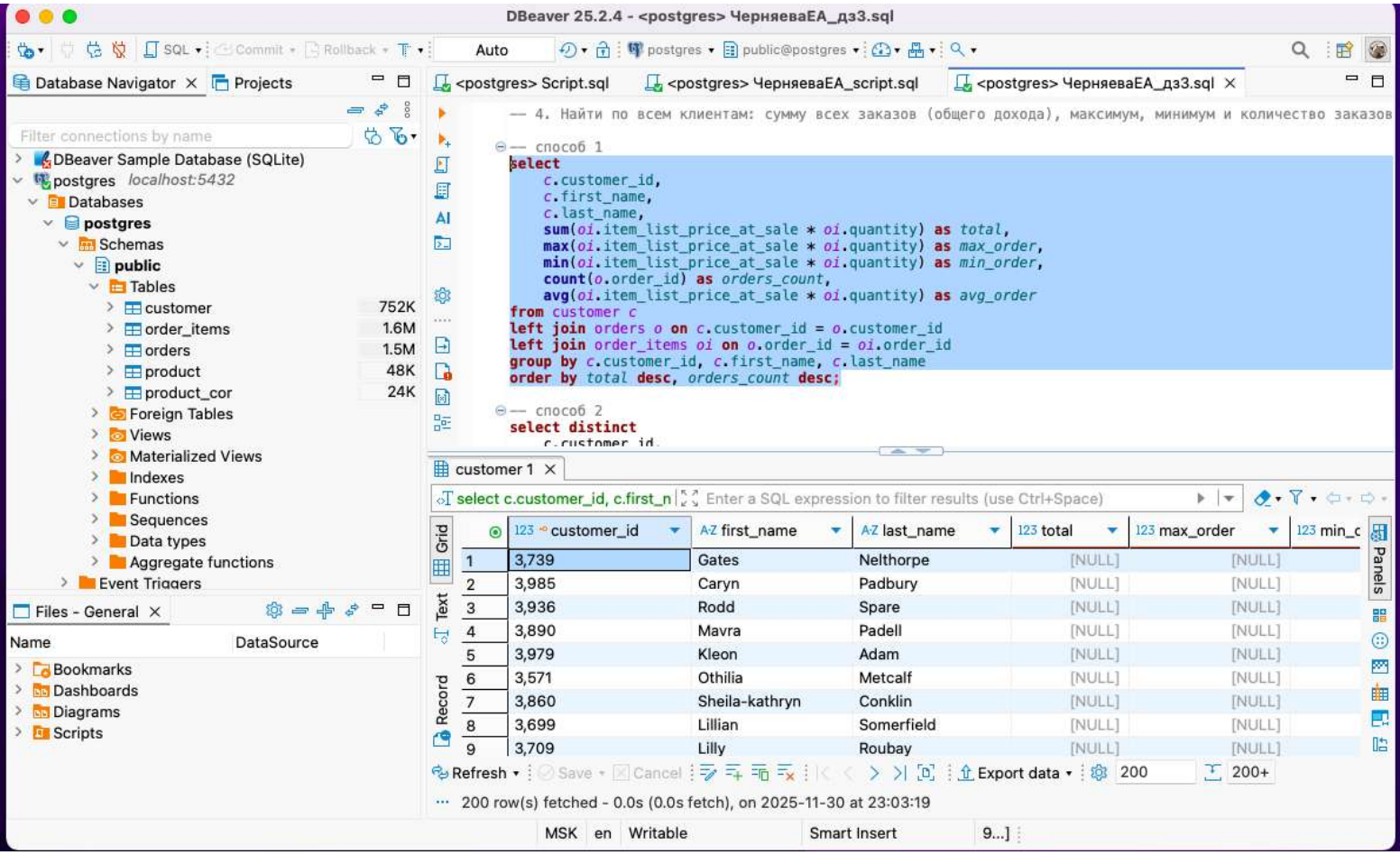
<postgres> ЧерняеваЕА_script.sql
<postgres> ЧерняеваЕА_дз3.sql
— 3. Вывести количество уникальных онлайн-заказов для всех брендов в рамках подтвержденных заказов клие
select
p.brand,
count(distinct o.order_id) as online_orders
from product_cor p
left join order_items oi on p.product_id = oi.product_id
left join orders o on oi.order_id = o.order_id
left join customer c on o.customer_id = c.customer_id
where o.online_order = true
and c.job_industry_category = 'IT'
and o.order_status = 'Approved'
group by p.brand
order by online_orders desc;
— 4. Найти по всем клиентам: сумму всех заказов (общего дохода), максимум, минимум и количество заказов
product_cor 1
select p.brand, count(distinct
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
Record
Panels
brand
online_orders
1 OHM Cycles 113
2 Giant Bicycles 102
3 Solex 101
4 WeareA2B 87
5 Trek Bicycles 78
6 Norco Bicycles 59
Refresh
Save
Cancel
Export data
200
6
6 row(s) fetched - 0.0s, on 2025-11-30 at 23:02:55
MSK
en
Writable
Smart Insert
7...]


DBeaver 25.2.4 - <postgres> ЧерняеваЕА_дз3.sql
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product 48K
product_cor 24K
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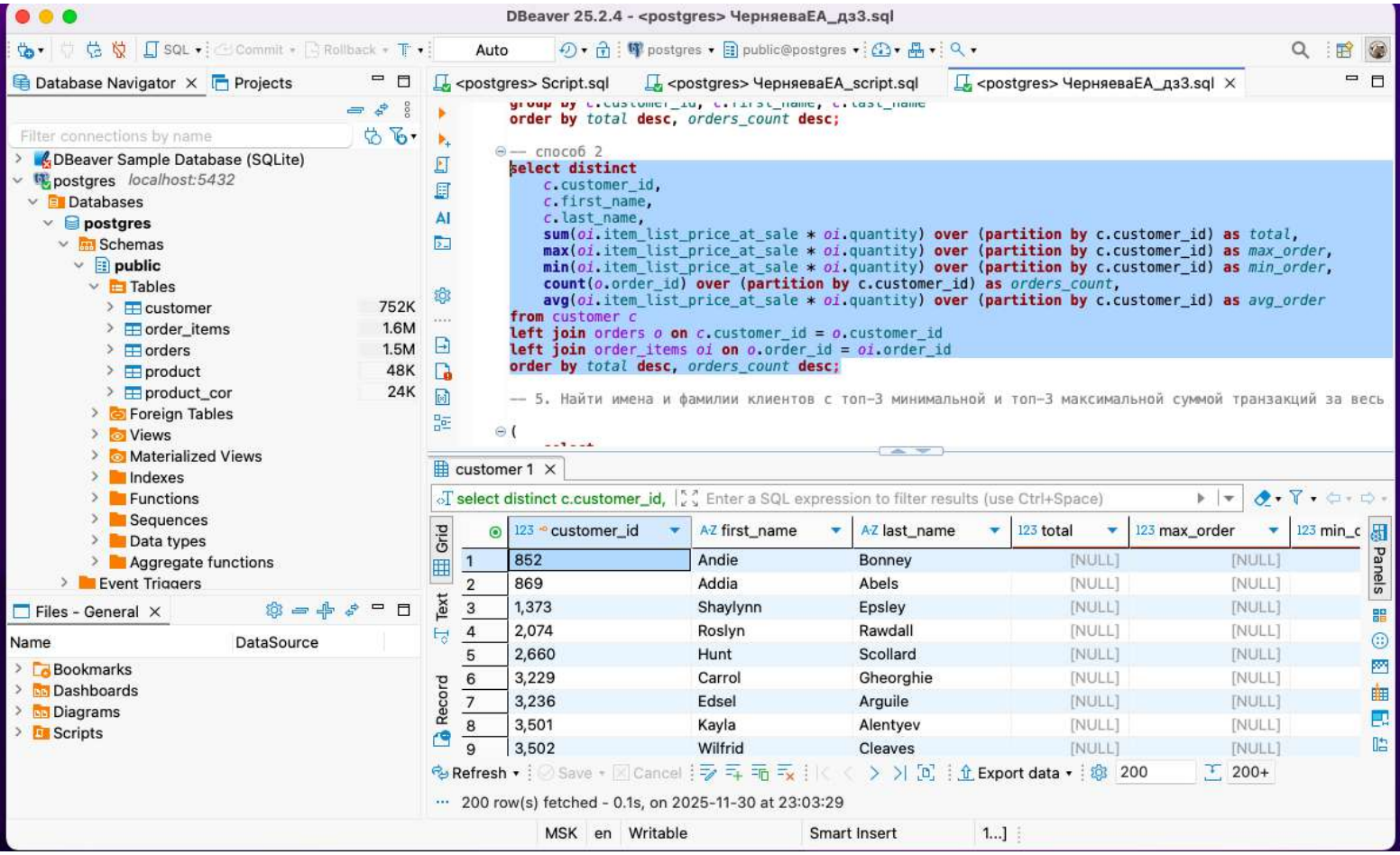
<postgres> Script.sql
<postgres> ЧерняеваЕА_script.sql
<postgres> ЧерняеваЕА_дз3.sql
— 4. Найти по всем клиентам: сумму всех заказов (общего дохода), максимум, минимум и количество заказов
— способ 1
select
c.customer_id,
c.first_name,
c.last_name,
sum(oi.item_list_price_at_sale * oi.quantity) as total,
max(oi.item_list_price_at_sale * oi.quantity) as max_order,
min(oi.item_list_price_at_sale * oi.quantity) as min_order,
count(o.order_id) as orders_count,
avg(oi.item_list_price_at_sale * oi.quantity) as avg_order
from customer c
left join orders o on c.customer_id = o.customer_id
left join order_items oi on o.order_id = oi.order_id
group by c.customer_id, c.first_name, c.last_name
order by total desc, orders_count desc;
— способ 2
select distinct
customer 1
select c.customer_id, c.first_n
Enter a SQL expression to filter results (use Ctrl+Space)
customer_id
first_name
last_name
total
max_order
min_c
1 3,739 Gates Nelthorpe [NULL] [NULL]
2 3,985 Caryn Padbury [NULL] [NULL]
3 3,936 Rodd Spare [NULL] [NULL]
4 3,890 Mavra Padell [NULL] [NULL]
5 3,979 Kleon Adam [NULL] [NULL]
6 3,571 Othilia Metcalf [NULL] [NULL]
7 3,860 Sheila-kathryn Conklin [NULL] [NULL]
8 3,699 Lillian Somerfield [NULL] [NULL]
9 3,709 Lilly Roubay [NULL] [NULL]
Refresh
Save
Cancel
Export data
200
200+
200 row(s) fetched - 0.0s (0.0s fetch), on 2025-11-30 at 23:03:19
MSK
en
Writable
Smart Insert


DBeaver 25.2.4 - <postgres> ЧерняеваЕА_дз3.sql
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orders 1.5M
product 48K
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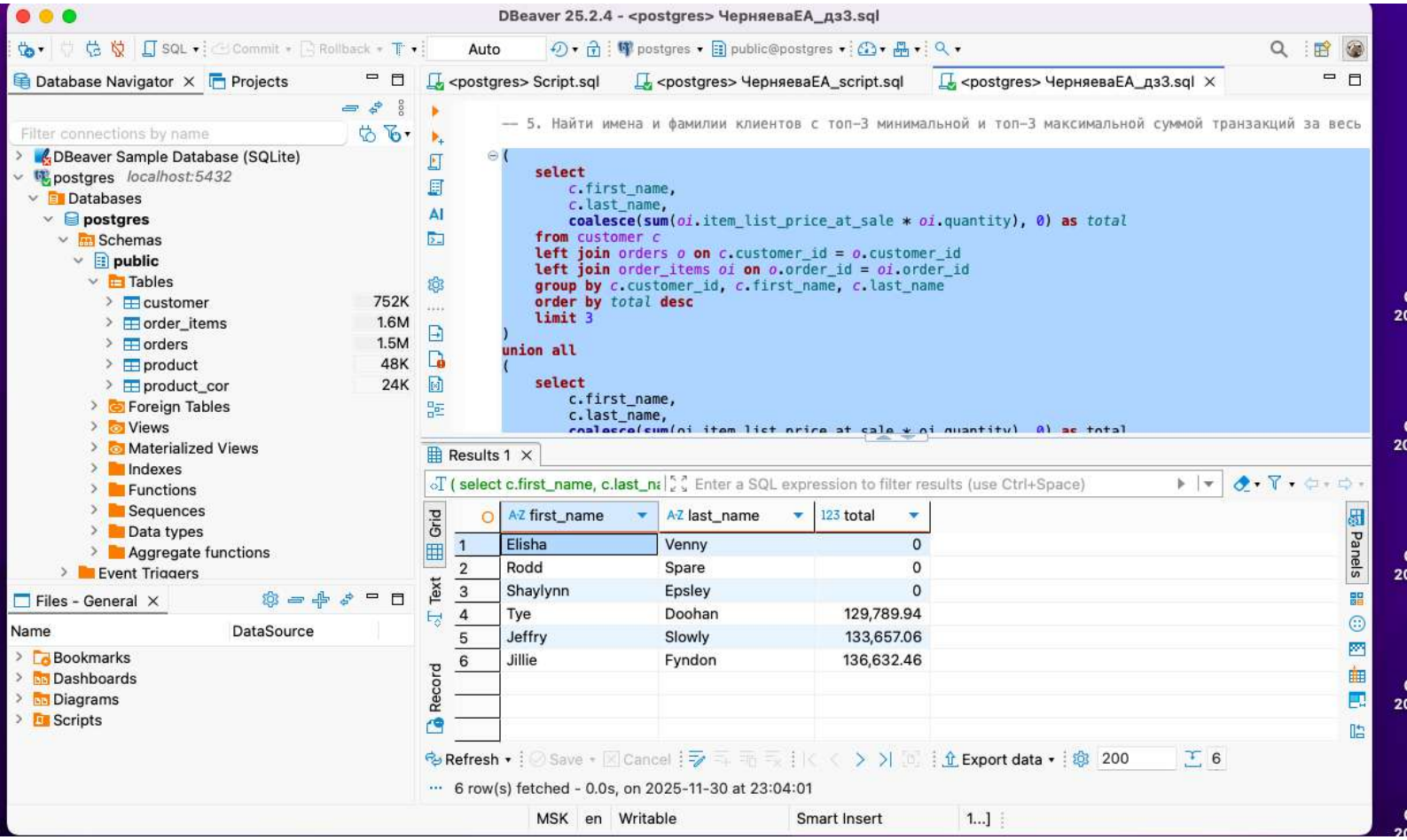
<postgres> Script.sql
<postgres> ЧерняеваЕА_script.sql
<postgres> ЧерняеваЕА_дз3.sql
order by total desc, orders_count desc;
-- способ 2
select distinct
c.customer_id,
c.first_name,
c.last_name,
sum(oi.item_list_price_at_sale * oi.quantity) over (partition by c.customer_id) as total,
max(oi.item_list_price_at_sale * oi.quantity) over (partition by c.customer_id) as max_order,
min(oi.item_list_price_at_sale * oi.quantity) over (partition by c.customer_id) as min_order,
count(o.order_id) over (partition by c.customer_id) as orders_count,
avg(oi.item_list_price_at_sale * oi.quantity) over (partition by c.customer_id) as avg_order
from customer c
left join orders o on c.customer_id = o.customer_id
left join order_items oi on o.order_id = oi.order_id
order by total desc, orders_count desc;
-- 5. Найти имена и фамилии клиентов с топ-3 минимальной и топ-3 максимальной суммой транзакций за весь
(
customer 1
select distinct c.customer_id,
Enter a SQL expression to filter results (use Ctrl+Space)
customer_id
first_name
last_name
total
max_order
min_c
1 852 Andie Bonney [NULL] [NULL]
2 869 Addia Abels [NULL] [NULL]
3 1,373 Shaylynn Epsley [NULL] [NULL]
4 2,074 Roslyn Rawdall [NULL] [NULL]
5 2,660 Hunt Scollard [NULL] [NULL]
6 3,229 Carrol Gheorghie [NULL] [NULL]
7 3,236 Edsel Arguile [NULL] [NULL]
8 3,501 Kayla Alentyev [NULL] [NULL]
9 3,502 Wilfrid Cleaves [NULL] [NULL]
Refresh
Save
Cancel
Export data
200
200+
200 row(s) fetched - 0.1s, on 2025-11-30 at 23:03:29
MSK
en
Writable
Smart Insert
1...]


DBeaver 25.2.4 - <postgres> ЧерняеваEA_дз3.sql
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orders 1.5M
product 48K
product_cor 24K
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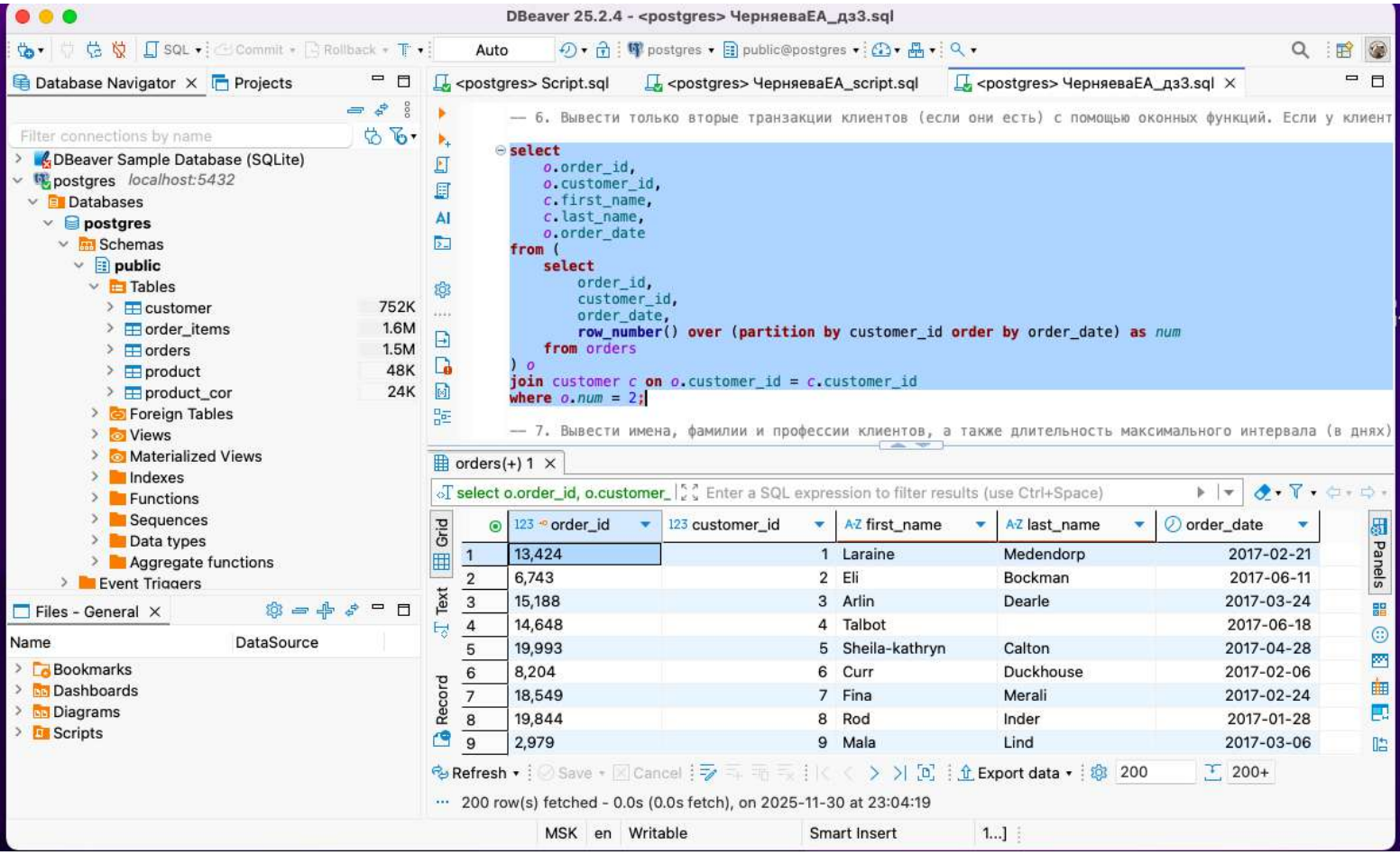
<postgres> Script.sql
<postgres> ЧерняеваEA_script.sql
<postgres> ЧерняеваEA_дз3.sql
-- 5. Найти имена и фамилии клиентов с топ-3 минимальной и топ-3 максимальной суммой транзакций за весь
(
select
c.first_name,
c.last_name,
coalesce(sum(oi.item_list_price_at_sale * oi.quantity), 0) as total
from customer c
left join orders o on c.customer_id = o.customer_id
left join order_items oi on o.order_id = oi.order_id
group by c.customer_id, c.first_name, c.last_name
order by total desc
limit 3
)
union all
(
select
c.first_name,
c.last_name,
Results 1
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
Record
Panels
first_name
last_name
total
1 Elisha Venny 0
2 Rodd Spare 0
3 Shaylynn Epsley 0
4 Tye Doohan 129,789.94
5 Jeffry Slowly 133,657.06
6 Jillie Fyndon 136,632.46
Refresh
Save
Cancel
Export data
200
6
6 row(s) fetched - 0.0s, on 2025-11-30 at 23:04:01
MSK
en
Writable
Smart Insert


DBeaver 25.2.4 - <postgres> ЧерняеваЕА_дз3.sql
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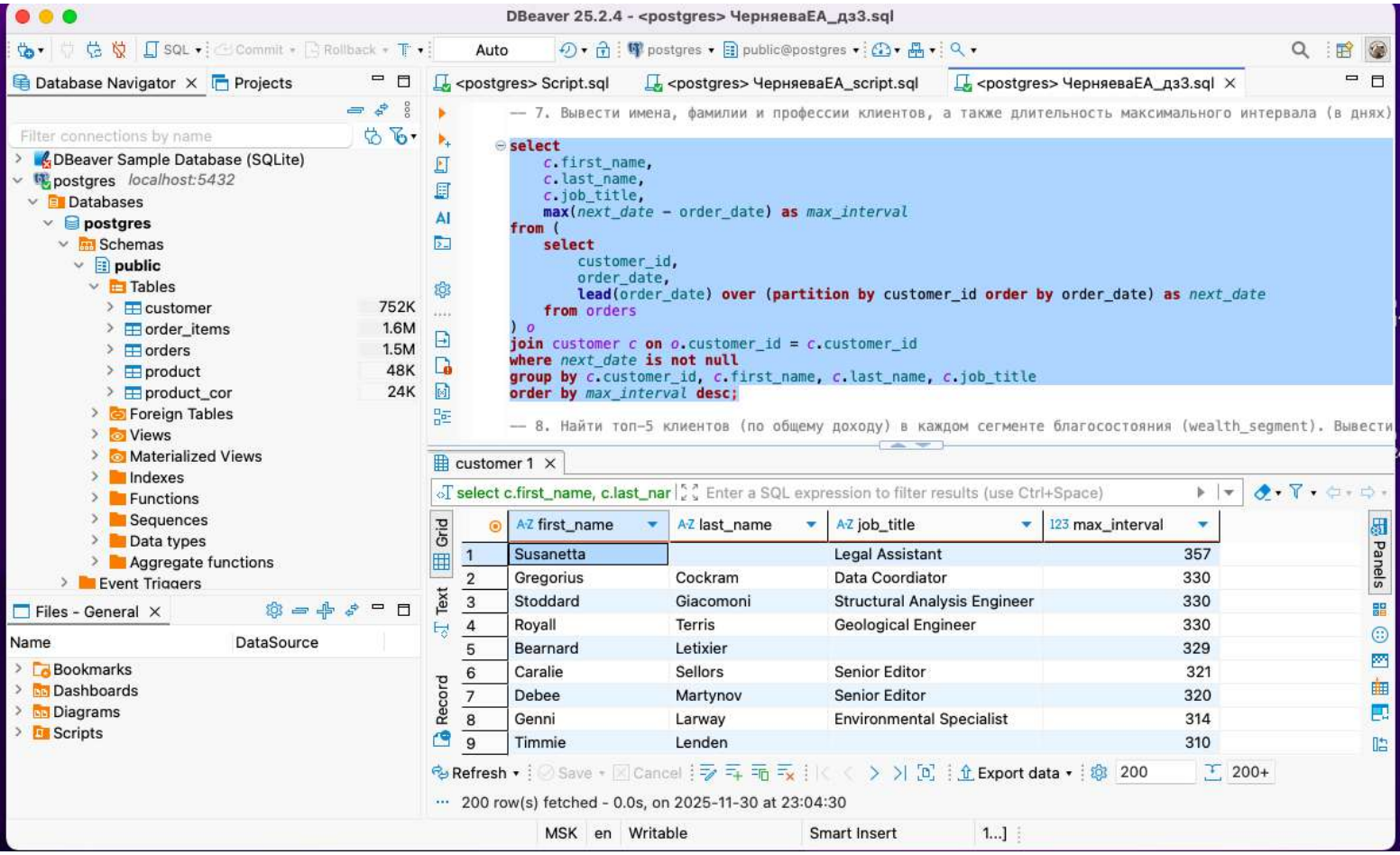
<postgres> ЧерняеваЕА_дз3.sql
— 6. Вывести только вторые транзакции клиентов (если они есть) с помощью оконных функций. Если у клиент
select
o.order_id,
o.customer_id,
c.first_name,
c.last_name,
o.order_date
from (
select
order_id,
customer_id,
order_date,
row_number() over (partition by customer_id order by order_date) as num
from orders
) o
join customer c on o.customer_id = c.customer_id
where o.num = 2;
— 7. Вывести имена, фамилии и профессии клиентов, а также длительность максимального интервала (в днях)
orders(+) 1
select o.order_id, o.customer_
Enter a SQL expression to filter results (use Ctrl+Space)
order_id
customer_id
first_name
last_name
order_date
1 13,424 1 Laraine Medendorp 2017-02-21
2 6,743 2 Eli Bockman 2017-06-11
3 15,188 3 Arlin Dearle 2017-03-24
4 14,648 4 Talbot 2017-06-18
5 19,993 5 Sheila-kathryn Calton 2017-04-28
6 8,204 6 Curr Duckhouse 2017-02-06
7 18,549 7 Fina Merali 2017-02-24
8 19,844 8 Rod Inder 2017-01-28
9 2,979 9 Mala Lind 2017-03-06
Refresh
Save
Cancel
Export data
200
200+
200 row(s) fetched - 0.0s (0.0s fetch), on 2025-11-30 at 23:04:19
MSK
en
Writable
Smart Insert


DBeaver 25.2.4 - <postgres> ЧерняеваЕА_дз3.sql
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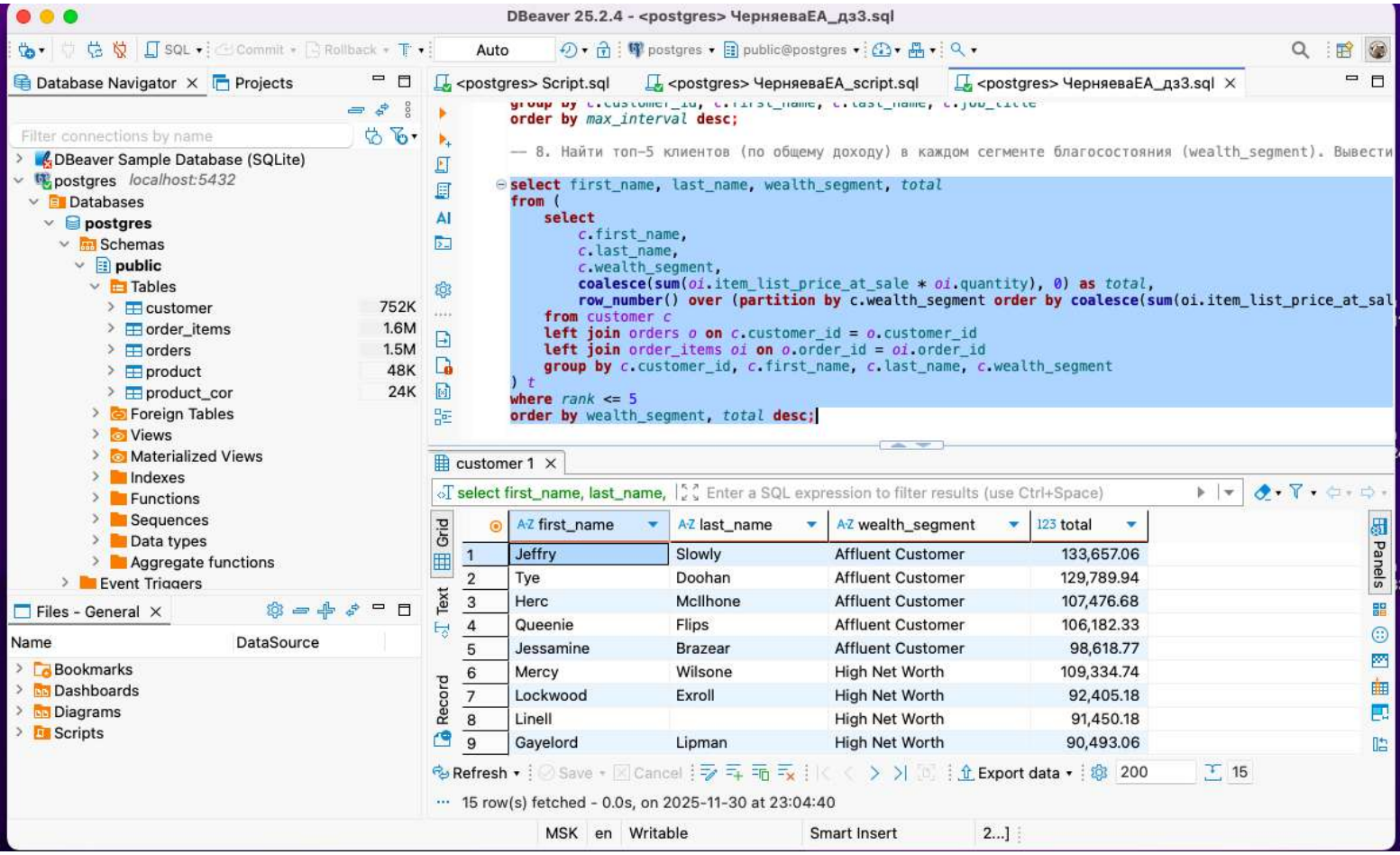
<postgres> ЧерняеваЕА_дз3.sql
— 7. Вывести имена, фамилии и профессии клиентов, а также длительность максимального интервала (в днях)
select
c.first_name,
c.last_name,
c.job_title,
max(next_date - order_date) as max_interval
from (
select
customer_id,
order_date,
lead(order_date) over (partition by customer_id order by order_date) as next_date
from orders
) o
join customer c on o.customer_id = c.customer_id
where next_date is not null
group by c.customer_id, c.first_name, c.last_name, c.job_title
order by max_interval desc;
— 8. Найти топ-5 клиентов (по общему доходу) в каждом сегменте благосостояния (wealth_segment). Вывести
customer 1
select c.first_name, c.last_nar
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
Record
Panels
first_name
last_name
job_title
max_interval
1 Susanetta Legal Assistant 357
2 Gregorius Cockram Data Coordiator 330
3 Stoddard Giacomoni Structural Analysis Engineer 330
4 Royall Terris Geological Engineer 330
5 Bearnard Letixier 329
6 Caralie Sellors Senior Editor 321
7 Debee Martynov Senior Editor 320
8 Genni Larway Environmental Specialist 314
9 Timmie Lenden 310
Refresh
Save
Cancel
Export data
200
200+
200 row(s) fetched - 0.0s, on 2025-11-30 at 23:04:30
MSK
en
Writable
Smart Insert
1...]


DBeaver 25.2.4 - <postgres> ЧерняеваЕА_дз3.sql
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<postgres> ЧерняеваЕА_дз3.sql
order by max_interval desc;
-- 8. Найти топ-5 клиентов (по общему доходу) в каждом сегменте благосостояния (wealth_segment). Вывести
select first_name, last_name, wealth_segment, total
from (
select
c.first_name,
c.last_name,
c.wealth_segment,
coalesce(sum(oi.item_list_price_at_sale * oi.quantity), 0) as total,
row_number() over (partition by c.wealth_segment order by coalesce(sum(oi.item_list_price_at_sal
from customer c
left join orders o on c.customer_id = o.customer_id
left join order_items oi on o.order_id = oi.order_id
group by c.customer_id, c.first_name, c.last_name, c.wealth_segment
) t
where rank <= 5
order by wealth_segment, total desc;
customer 1
select first_name, last_name,
Enter a SQL expression to filter results (use Ctrl+Space)
Grid
Text
Record
Panels
first_name
last_name
wealth_segment
total
1 Jeffry Slowly Affluent Customer 133,657.06
2 Tye Doohan Affluent Customer 129,789.94
3 Herc McIlhone Affluent Customer 107,476.68
4 Queenie Flips Affluent Customer 106,182.33
5 Jessamine Brazear Affluent Customer 98,618.77
6 Mercy Wilsone High Net Worth 109,334.74
7 Lockwood Exroll High Net Worth 92,405.18
8 Linell High Net Worth 91,450.18
9 Gayelord Lipman High Net Worth 90,493.06
Refresh
Save
Cancel
Export data
200
15
15 row(s) fetched - 0.0s, on 2025-11-30 at 23:04:40
MSK
en
Writable
Smart Insert