```sql
-- Вывести все уникальные бренды, у которых есть хотя бы один продукт со стандартной стоимостью выше 1500 долларов, и суммарными продажами не менее 1000 единиц
select distinct p.brand
from product p
where p.standard_cost > 1500
and (
    select sum(oi.quantity)
    from product p2
    left join order_items oi on p2.product_id = oi.product_id
    ) > 1000;
```

product 1

Enter a SQL expression to filter results (use Ctrl+Space)

	brand
1	OHM Cycles
2	Trek Bicycles
3	Solex
4	Giant Bicycles

Value

Text

OHM Cycles

```sql
-- Для каждого дня в диапазоне с 2017-04-01 по 2017-04-09 включительно вывести количество подтвержденных онлайн-заказов и количество уникальных клиентов, совершивших эт
with dates as (
    select *
    from orders o
    where o.online_order = true and o.order_status = 'Approved'
    and o.order_date::date between '2017-04-01' and '2017-04-09'
    )
select d.order_date::date, count(distinct d.order_id), count(distinct d.customer_id)
from dates d
left join customer c on c.customer_id = d.customer_id
group by d.order_date::date;
```

Results 1

Enter a SQL expression to filter results (use Ctrl+Space)

	order_date	count	count
1	2017-04-01	37	37
2	2017-04-02	29	29
3	2017-04-03	27	27
4	2017-04-04	32	32
5	2017-04-05	33	32
6	2017-04-06	36	36
7	2017-04-07	24	24
8	2017-04-08	33	33
9	2017-04-09	30	30

Value

2017-04-01

```sql
-- Вывести профессии клиентов:
-- из сферы IT, чья профессия начинается с Senior;
-- из сферы Financial Services, чья профессия начинается с Lead.
-- Для обеих групп учитывать только клиентов старше 35 лет. Объединить выборки с помощью UNION ALL.

select customer_id, first_name, last_name, job_industry_category, job_title, c."DOB"
from customer c
where c.job_industry_category = 'IT'
    and c.job_title LIKE 'Senior%'
union all
select customer_id, first_name, last_name, job_industry_category, job_title, c."DOB"
from customer c
where c.job_industry_category = 'Financial Services'
    and c.job_title LIKE 'Lead%';
```

Results 1

Enter a SQL expression to filter results (use Ctrl+Space)

	customer_id	first_name	last_name	job_industry_category	job_title	DOB
1	290	Giorgio	Kevane	IT	Senior Sales Associate	
2	685	Booth	Birkin	IT	Senior Developer	
3	1,418	Valaria	Hugh	IT	Senior Sales Associate	1976-11-29
4	2,039	Laureen	Blower	IT	Senior Developer	1978-03-26
5	3,151	Thorn	Choffin	IT	Senior Developer	
6	3,222	Caralie	Sellors	IT	Senior Editor	

Value

290

```sql
-- Вывести бренды, которые были куплены клиентами из сферы Financial Services, но не были куплены клиентами из сферы IT.
with finServicesClient as(
    select *
    from customer c
    where c.job_industry_category = 'Financial Services'
    ),
orders_id as (
    select *
    from finServicesClient as fsc
    left join orders o on fsc.customer_id = o.customer_id
    ),
product_ids as(
    select oi.product_id, oids.job_industry_category
    from orders_id as oids
    left join order_items oi on oids.order_id = oi.order_id
)
select distinct p.brand, pids.job_industry_category
from product p
left join product_ids as pids on p.product_id = pids.product_id;
```

product(+) 1

Enter a SQL expression to filter results (use Ctrl+Space)

	brand	job_industry_category
1	Solex	Financial Services
2	Norco Bicycles	Financial Services
3	Trek Bicycles	Financial Services
4	Giant Bicycles	Financial Services
5	WeareA2B	Financial Services
6	OHM Cycles	Financial Services
7		Financial Services

Value

Text

Solex

```sql
-- Вывести 10 клиентов (ID, имя, фамилия), которые совершили наибольшее количество онлайн-заказов (в штуках) брендов Giant Bicycles, Norco Bicycles, Trek Bicycles, при
with state_avg as (
    select c.state, avg(c.property_valuation) as avg_val
    from customer c
    where c.property_valuation is not null
    group by c.state
),
online_orders as (
    select c.customer_id, c.first_name, c.last_name, c.property_valuation, c.state, count(o.order_id) as online_count
    from customer c
        join orders o on c.customer_id = o.customer_id
        join order_items oi on o.order_id = oi.order_id
        join product p on oi.product_id = p.product_id
    where o.online_order = true
      and p.brand in ('Giant Bicycles', 'Norco Bicycles', 'Trek Bicycles')
      and c.property_valuation > (
          select avg_val
          from state_avg sa
          where sa.state = c.state
      )
    group by c.customer_id, c.first_name, c.last_name, c.property_valuation, c.state
)
select oo.customer_id, oo.first_name, oo.last_name, oo.online_count
from online_orders oo
order by oo.online_count desc
limit 10;
```

customer 1

Enter a SQL expression to filter results (use Ctrl+Space)

	customer_id	first_name	last_name	online_count
1	714	Burtie	Scintsbury	41
2	1,480	Bird	Diess	40
3	1,640	Erie	Worswick	34
4	2,240	Niall	Hallifax	30
5	1,817	Jozef	Frizzell	27
6	3,326	Wes	Crotch	27
7	3,375	Thorsten	Gregon	27
8	2,358	Ave	Peatt	26
9	3,251	Cammie	Edridge	26
10	86	Job	Sleney	26

Value

714

```sql
-- Вывести всех клиентов (ID, имя, фамилия), у которых нет подтвержденных онлайн-заказов за последний год, но при этом они владеют автомобилем и их сегме
with online_orders_on_last_year as (
    select distinct c.customer_id
    from customer c
        join orders o on c.customer_id = o.customer_id
    where o.online_order = true
      and o.order_status = 'Approved'
      and date_trunc('year', o.order_date::date) = '2017-12-31'
),
customers_on_last_year as (
    select
        c.customer_id,
        c.first_name,
        c.last_name
    from customer c
    where c.owns_car = 'Yes'
      and c.wealth_segment not in ('Mass Customer')
      and c.customer_id not in (
          select customer_id
          from online_orders_on_last_year
      )
)
select
    c_last.customer_id,
    c_last.first_name,
    c_last.last_name
from customers_on_last_year c_last;
```

customer 1

Enter a SQL expression to filter results (use Ctrl+Space)

	customer_id	first_name	last_name
1	5	Sheila-kathryn	Calton
2	6	Curr	Duckhouse
3	7	Fina	Merali
4	9	Mala	Lind
5	13	Gabriele	Norcross
6	17	Heath	Faraday
7	21	Mile	Cammocke
8	23	Olav	Polak
9	28	Fee	Zellmer
10	30	Darrick	Helleckas
11	31	Star	Praton

Value

5

```sql
-- Вывести всех клиентов из сферы 'IT' (ID, имя, фамилия), которые купили 2 из 5 продуктов с самой высокой list_price в продуктовой линейке Road.
with road_products as (
    select p.product_id, p.list_price
    from product p
    where product_line = 'Road'
),
customers_orders as (
    select distinct c.customer_id, c.first_name, c.last_name, oi.product_id
    from customer c
        join orders o on c.customer_id = o.customer_id
        join order_items oi on o.order_id = oi.order_id
    where c.job_industry_category = 'IT'
      and oi.product_id in
      (
      select product_id from road_products
      )
)
select co.customer_id, co.first_name, co.last_name
from customers_orders co
group by customer_id, first_name, last_name
having count(distinct co.product_id) >= 2 and count(distinct co.product_id) <= 5;
```

customer 1

Enter a SQL expression to filter results (use Ctrl+Space)

	customer_id	first_name	last_name
1	22	Deeanne	Durtnell
2	34	Jephthah	Bachmann
3	64	Gerek	Yve
4	83	Kerr	Simmell
5	144	Jory	Barrabeale
6	168	Reggie	Broggetti
7	240	Gavin	Fawks
8	249	D'arcy	Slay
9	255	Keeley	Kruger
10	290	Giorgio	Kevane
11	308	Iver	Dobsons
12	324	Franz	Lyptrit
13	412	Evanne	Feechum
14	429	Berny	Bold
15	441	Felicle	Beneze

Value

22

```sql
-- Вывести клиентов (ID, имя, фамилия, сфера деятельности) из сфер IT или Health, которые совершили не менее 3 подтвержденных заказов в пер
-- Разделить вывод на две группы (IT и Health) с помощью UNION.
with customer_orders as (
    select c.customer_id, c.first_name, c.last_name, c.job_industry_category,
        count(o.order_id) as count,
        sum(oi.quantity * oi.item_list_price_at_sale) as total
    from customer c
        join orders o on c.customer_id = o.customer_id
        join order_items oi on o.order_id = oi.order_id
    where c.job_industry_category in ('IT', 'Health')
      and o.order_status = 'Approved'
      and o.order_date between '2017-01-01' and '2017-03-01'
    group by  c.customer_id, c.first_name, c.last_name, c.job_industry_category
    having
        count(o.order_id) >= 3
        and sum(oi.quantity * oi.item_list_price_at_sale) > 10000
)
select *
from (
    select co.customer_id, co.first_name, co.last_name, co.job_industry_category
    from customer_orders co
    where job_industry_category = 'IT'
union
    select co2.customer_id, co2.first_name, co2.last_name, co2.job_industry_category
    from customer_orders co2
    where job_industry_category = 'Health'
) as res
order by res.job_industry_category
```

Results 1

with customer_orders as (select c.customer_id, c.first_name | Enter a SQL expression to filter results (use Ctrl+Space)

	customer_id	first_name	last_name	job_industry_category
1	173	Ebba	Hanselmann	Health
2	2,172	Emmery	Angrock	Health
3	590	Ddene	Burleton	Health
4	2,292	Christie	MacClure	Health
5	2,353	Lyn	Luquet	Health
6	2,788	Melantha	Pickburn	Health
7	2,815	Emery	Carlett	Health
8	607	Adelaida	Redmond	Health
9	2,992	Crystal	Assur	Health
10	2,166	Brancan	Blowman	Health

Val

173