-- Task 1

-- A

select \* from dealer and client;

-- B

select d.name , c.name , c.city , (select count(\*) from sell where sell.dealer\_id = d.id and sell.client\_id = c.id), s.id , s.date , s.amount

from dealer d

join client c on d.id = c.dealer\_id

join sell s on d.id = s.dealer\_id and c.id = s.client\_id;

--C

select \* from dealer d join client c on c.city = d.location;

--D

select s.id, s.amount ,c.name, c.city from sell s

join client c on s.client\_id = c.id

where s.amount between 100 and 500;

--E

select \*

from dealer

full outer client on dealer.id = client.dealer\_id;

--F

select c.name , c.city ,d.name ,d.charge

from dealer d

join client c on d.id = c.dealer\_id;

--G

select c.name, c.city, d.\*, d.charge

from client c

join dealer d on c.dealer\_id = d.id

where d.charge > 0.12;

-- H

select c.name, c.city ,s.id , s.amount , d.name, d.charge

from client c

left join dealer d on c.dealer\_id = d.id

left join sell s on s.dealer\_id = d.id and s.client\_id = c.id;

-- Last task

select c.name, c.priority, d.name, s.id, s.amount

from dealer d

join client c on c.dealer\_id = d.id

left join sell s on d.id = s.dealer\_id and c.id = s.client\_id

where s.amount > 2000 and c.priority is not null;

-- Task 2

-- A

create or replace view client\_or\_by\_each\_date as

select count(distinct s.client\_id), avg(amount), sum(amount), s.date

from sell s

group by s.date;

select \*

from client\_or\_by\_each\_date;

--B

CREATE view view\_top\_five as as select SUM(amount),date from sell group by date order by SUM(amount) desc limit 5;

select \* from view\_top\_five;

--C

CREATE view dealer\_view as select COUNT(d.id),AVG(s.amount),SUM(s.amount),d.name,d.id from sell as s join dealer as d on s.dealer\_id = d.id group by d.name,d.id ;

select \* from dealer\_view;

--D

create or replace view dealers\_from\_charge as select d.location, sum(s.amount \* d.charge)

from dealer d,sell s

where d.id = s.dealer\_id

group by d.location

select \* from dealers\_from\_charge;

-- E

create or replace view sales\_dealers as

select d.location, count(\*), avg(s.amount), sum(s.amount)

from dealer d, sell s

where d.id = s.dealer\_id

group by d.location;

select \* from sales\_dealers;

-- F

create or replace view clients\_info as

select c.city, count(\*), avg(s.amount), sum(s.amount)

from client c, sell s

where s.client\_id = c.id

group by c.city;

select \* from clients\_info;

-- G

select sales\_dealers.location, clients\_info.city, sales\_dealers.sum, clients\_info.sum

from sales\_dealers,clients\_info

where sales\_dealers.location = clients\_info.city and sales\_dealers.sum < clients\_info.sum;