```sql
create table dealer (
    id integer primary key ,
    name varchar(255),
    location varchar(255),
    charge float
);

INSERT INTO dealer (id, name, location, charge) VALUES (101, 'Ерлан',
'Алматы', 0.15);
INSERT INTO dealer (id, name, location, charge) VALUES (102, 'Жасмин',
'Караганда', 0.13);
INSERT INTO dealer (id, name, location, charge) VALUES (105, 'Азамат',
'Нур-Султан', 0.11);
INSERT INTO dealer (id, name, location, charge) VALUES (106, 'Канат',
'Караганда', 0.14);
INSERT INTO dealer (id, name, location, charge) VALUES (107, 'Евгений',
'Атырау', 0.13);
INSERT INTO dealer (id, name, location, charge) VALUES (103, 'Жулдыз',
'Актобе', 0.12);

create table client (
    id integer primary key ,
    name varchar(255),
    city varchar(255),
    priority integer,
    dealer_id integer references dealer(id)
);

INSERT INTO client (id, name, city, priority, dealer_id) VALUES (802,
'Айша', 'Алматы', 100, 101);
INSERT INTO client (id, name, city, priority, dealer_id) VALUES (807,
'Даулет', 'Алматы', 200, 101);
INSERT INTO client (id, name, city, priority, dealer_id) VALUES (805,
'Али', 'Кокшетау', 200, 102);
INSERT INTO client (id, name, city, priority, dealer_id) VALUES (808,
'Ильяс', 'Нур-Султан', 300, 102);
INSERT INTO client (id, name, city, priority, dealer_id) VALUES (804,
'Алия', 'Караганда', 300, 106);
INSERT INTO client (id, name, city, priority, dealer_id) VALUES (809,
'Саша', 'Шымкент', 100, 103);
INSERT INTO client (id, name, city, priority, dealer_id) VALUES (803,
'Маша', 'Семей', 200, 107);
INSERT INTO client (id, name, city, priority, dealer_id) VALUES (801,
'Максат', 'Нур-Султан', null, 105);

create table sell (
    id integer primary key,
    amount float,
    date timestamp,
    client_id integer references client(id),
```

```sql
    dealer_id integer references dealer(id)
);

INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (201,
150.5, '2012-10-05 00:00:00.000000', 805, 102);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (209,
270.65, '2012-09-10 00:00:00.000000', 801, 105);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (202,
65.26, '2012-10-05 00:00:00.000000', 802, 101);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (204,
110.5, '2012-08-17 00:00:00.000000', 809, 103);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (207,
948.5, '2012-09-10 00:00:00.000000', 805, 102);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (205,
2400.6, '2012-07-27 00:00:00.000000', 807, 101);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (208,
5760, '2012-09-10 00:00:00.000000', 802, 101);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (210,
1983.43, '2012-10-10 00:00:00.000000', 804, 106);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (203,
2480.4, '2012-10-10 00:00:00.000000', 809, 103);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (212,
250.45, '2012-06-27 00:00:00.000000', 808, 102);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (211,
75.29, '2012-08-17 00:00:00.000000', 803, 107);
INSERT INTO sell (id, amount, date, client_id, dealer_id) VALUES (213,
3045.6, '2012-04-25 00:00:00.000000', 802, 101);

-- drop table client;
-- drop table dealer;
-- drop table sell;
select*from dealer;
select*from client;
select*from sell;
EX1

-- a
select * from dealer inner join client
 on dealer.id = client.dealer_id;
-- b
select client.name,client.city,client.priority,sell.id,
sell.amount,sell.date from client inner join sell
 on sell.dealer_id = client.dealer_id;
--c
select dealer.name as dealer,client.name,client.city from dealer inner
join
client on dealer.location = client.city;
--d
select sell.id,sell.amount,client.name, client.city from sell inner join
client on
```

```sql
  sell.amount >= 100 and sell.amount <= 500 and client.id = sell.client_id;
--e
select dealer.id, dealer.name from dealer left outer join client on
client.dealer_id = dealer.id
--f
select dealer.name,client.name,client.city, dealer.charge from dealer
inner
join client on dealer.id = client.dealer_id
--g
select client.name,client.city, dealer.name from client inner join dealer
on
dealer.id = client.dealer_id where dealer.charge > 0.12;
--h
select client.name,client.city, sell.id , sell.amount,dealer.name,
dealer.charge
from (client left join sell on client.id = sell.client_id) left join
dealer
on dealer.id = sell.dealer_id;
--i
select client.name,client.city, client.priority,dealer.name,
sell.id,sell.amount
from client right outer join dealer on client.dealer_id = dealer.id
 left outer join sell on client.id = sell.client_id where amount
>= 2000 and client.priority IS NOT NULL;
--EX2
--a
drop view vista1;--a
drop view vista2;--b
drop view vista3;--c
drop view vista4 -- d
drop view vista5;--e
drop view vista6;--f
drop view vista7;--g
--a
create view vista1 as select date, count(distinct client_id ),
avg(amount),
sum(amount) from sell group by date;
select*from vista1;
--b
create view vista2 as select date, count(distinct client_id ),
avg(amount),
sum(amount) as summa
 from sell group by date order
by summa desc LIMIT 5;
--c
create view vista3 as select count(client_id),avg(amount), sum(amount)
from
sell group by client_id;
--d
create view vista4 as
```

```sql
select location, charge, sum(amount) as sum, charge * sum(amount) as
total_price
from sell inner join dealer on sell.dealer_id = dealer.id group by
location,charge;
--e
create view vista5
as select count(client_id), avg(amount), sum(amount)
from sell inner join dealer on sell.dealer_id = dealer.id group by
location;
--f
create view vista6 as
select count(sell.id),avg(amount), sum(amount)
from client inner join sell on client.id = sell.client_id group by city;
--g
create view vista7 as
select city,sum(amount) as summa
from (sell inner join client on sell.client_id = client.id) group by city
 where summa > (select sum(amount) from dealer inner join sell on
dealer.id = sell.dealer_id group by location)
```