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1)
a)
select dealer.id, dealer.name, location, charge, client.id, client.name, client.city, client.priority
from dealer
inner join client on dealer.id = client.dealer_id;
b)
select *
from dealer d
left join client c on d.id = c.dealer_id
left join sell s on d.id = s.dealer_id
order by d.id;
c)
select *
from dealer d
inner join client c on d.location = c.city;
d)
select s.id, s.amount, client.name, client.city
from (select * from sell where amount > 100 and amount < 500) as s
inner join client on client.id = s.client_id;
e)
select d.id, d.name, d.location, d.charge, count(*)
from dealer d
full outer join client c on d.id = c.dealer_id
group by d.id;
f)
select d.name, d.charge, c.name, c.city
from dealer d
inner join client c on d.id = c.dealer_id;
g)
select c.name, c.city, d.name, d.charge
from client c
inner join dealer d on d.charge > 0.12 and c.dealer_id = d.id;
h)
select c.name, c.city, s.id, s.date, s.amount, d.name, d.charge
from client c
full outer join sell s on c.id = s.client_id
full outer join dealer d on d.id = c.dealer_id;
i)
select *
from client c
left outer join dealer d on d.id = c.dealer_id
inner join sell s on c.id = s.client_id or s.amount > 2000 and c.priority is not null ;

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2)
a)
select avg(amount), sum(amount), count(distinct client_id)
from sell;
b)
select date, sum(amount) as total
from sell
group by date
order by total desc
limit 5;
c)
select dealer_id, count(id), avg(amount), sum(amount)
from sell
group by dealer_id;
d)
select d.name, sum(d.charge * s.amount)
from dealer d
inner join sell s on d.id = s.dealer_id
group by d.name;
e)

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```
select location, count(s.id) as sale, avg(amount), sum(amount)
from sell s
inner join dealer d on d.id = s.dealer_id
group by location;
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f)

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select city, count(s.id) as sale, avg(amount), sum(amount)
from sell s
inner join client c on c.id = s.client_id
group by city;
```

g)

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select distinct c.city, c.total
from (select city, sum(amount) as total
      from sell s
      inner join client c on c.id = s.client_id
      group by city) as c,
(select location, sum(amount) as total
 from sell s
  inner join dealer d on d.id = s.dealer_id
  group by location) as l
where c.city = l.location and c.total > l.total;
```