select D.dept_id, dept_name, count(*) as count_emp, avg(salary)
from department D, employee E
where E.dept_id=D.dept_id
group by D.dept_id, dept_name
limit 10;

select E.emp_id, emp_fname, emp_lname, count(*) as count_order
from sales_order S, employee E
where E.emp_id = S.sales_rep
group by E.emp_id, emp_fname, emp_lname
limit 10;

select C.id, fname, lname
from customer C
where (select min(order_date)
    from sales_order S
    where C.id = S.cust_id) like '%1994%
and (select max(order_date)
    from sales_order S
    where C.id = S.cust_id) like '%1994%
limit 10;

select distinct P.name, P.description
from product P, sales_order_items SO, sales_order s, customer C
where P.id=So.prod_id and So.id=S.id and s.cust_id=C.id
    and C.fname like 'R%
order by P.name, P.description
limit 10;

select C.id, C.fname, C.lname
from customer C
where C.id not in (select distinct cust_id
    from sales_order
)
limit 10;
```sql
select C.id, C.fname, C.lname
from customer C
where C.id not in (
    select distinct cust_id
    from sales_order S, sales_order_items SO, product P
    where S.id=So.id and P.id=SO.prod_id and P.name like '%shirt%'
)
limit 10;

select distinct c.id, c.fname, c.lname
from customer c, sales_order so
where c.id=so.cust_id and so.sales_rep=299 and
    (select count(distinct sol.sales_rep)
    from sales_order sol
    where sol.cust_id = c.id) =1
limit 10;

select max(S.order_date)
from sales_order S;

select state, count(*) as count_customer
from customer
group by state
order by count_customer desc
limit 1;

select C.id, C.fname, C.lname, count(*) as count_orders
from customer C, sales_order SO
where C.id = SO.cust_id and C.id in (
    select S.cust_id
    from sales_order s
    where S.sales_rep=129
)
group by C.id
limit 10;

--- the view gives for each order the total price of products in the order
create view sales_total as
select so.id, soi.quantity*p.unit_price as totalPrice
from
```
from sales_order so, sales_order_items soi, product p
where soi.id=so.id and soi.prod_id=p.id

group by so.id;

select sum(totalPrice)
from sales_total
where id in (select id from sales_order SO where SO.cust_id=101);

create view emp_age as
select emp_id, emp_fname, emp_lname, birth_date,
       date("now")-birth_date as age
from employee;

select dept_id, avg(age) as average_age
from emp_age ea, employee e
where e.emp_id=ea.emp_id

group by dept_id;

create table manufacturer (id int,
                          name varchar(50),
                          address varchar(100),
                          balance int,
                          primary key (id))

insert into manufacturer values (0, "Moshe", "Yefat 3, Yafo", 3500);
insert into manufacturer values (1, "David", "Kam 22, Haifa", 8000);
insert into manufacturer values (2, "Avi", "Geva 77, Tsfat", 2000);

select distinct 'israel, israeli, 123456789' from customer;