```
create database Business

create table Salesman
(
salesman_id numeric(5) primary key,
name varchar(30) not null,
city varchar(15) not null,
commission decimal(5,2) not null
)

insert into Salesman values(5001,'James Hoog','New York',0.15)
insert into Salesman values(5002,'Nail Knite','Paris',0.13)
insert into Salesman values(5005,'Pit Alex','London',0.11)
insert into Salesman values(5006,'Mc Lyon','Paris',0.14)
insert into Salesman values(5007,'Paul Adam','Rome',0.13)
insert into Salesman values(5003,'Lauson Hen','San Jose',0.12)

create table Customer
(
customer_id numeric(5) primary key,
cust_name varchar(30) not null,
city varchar(15) not null,
grade numeric(3) not null,
salesman_id numeric(5) not null
)

insert into Customer values(3002,'Nick Rimando','New York',100,5001)
insert into Customer values(3007,'Brad Davis','New York',200,5001)
insert into Customer values(3005,'Graham Zusi','California',200,5002)
insert into Customer values(3008,'Julian Green','London',300,5002)
insert into Customer values(3004,'Fabian Johnson','Paris',300,5006)
insert into Customer values(3009,'Geoff Cameron','Berlin',100,5003)
insert into Customer values(3003,'Jozy Altidor','Moscow',200,5007)
insert into Customer values(3001,'Brad Guzan','London',100,5005)

create table Orders
(
ord_no numeric(5) primary key,
purch_amt decimal(8,2) not null,
ord_date date not null,
customer_id numeric(5) references Customer(customer_id) not null,
salesman_id numeric(5) references Salesman(salesman_id) not null,
)

insert into Orders values(70001,150.5,'2012-10-05',3005,5002)
insert into Orders values(70009,270.65,'2012-09-10',3001,5005)
insert into Orders values(70002,65.26,'2012-10-05',3002,5001)
insert into Orders values(70004,110.5,'2012-08-17',3009,5003)
insert into Orders values(70007,948.5,'2012-09-10',3005,5002)
insert into Orders values(70005,2400.6,'2012-07-27',3007,5001)
insert into Orders values(70008,5760,'2012-09-10',3002,5001)
insert into Orders values(70010,1983.43,'2012-10-10',3004,5006)
insert into Orders values(70003,2480.4,'2012-10-10',3009,5003)
insert into Orders values(70012,250.45,'2012-06-27',3008,5002)
insert into Orders values(70011,75.29,'2012-08-17',3003,5007)
insert into Orders values(70013,3045.6,'2012-04-25',3002,5001)
```

--1.Write a SQL statement to display all the information of all salesmen

```
select * from Salesman
```

	salesman_id	name	city	commission
1	5001	James Hoog	New York	0.15
2	5002	Nail Knite	Paris	0.13
3	5003	Lauson Hen	San Jose	0.12
4	5005	Pit Alex	London	0.11
5	5006	Mc Lyon	Paris	0.14
6	5007	Paul Adam	Rome	0.13

--2.Write a SQL statement to display specific columns like name and commission for all the salesmen

```
select name,commission from Salesman
```

	name	commission
1	James Hoog	0.15
2	Nail Knite	0.13
3	Lauson Hen	0.12
4	Pit Alex	0.11
5	Mc Lyon	0.14
6	Paul Adam	0.13

--3.Write a query to display the columns in a specific order like order date, salesman id, order number and purchase amount from for all the orders

```
select ord_date,salesman_id,ord_no,purch_amt from Orders
```

	ord_date	salesman_id	ord_no	purch_amt
1	2012-10-05	5002	70001	150.50
2	2012-10-05	5001	70002	65.26
3	2012-10-10	5003	70003	2480.40
4	2012-08-17	5003	70004	110.50
5	2012-07-27	5001	70005	2400.60
6	2012-09-10	5002	70007	948.50
7	2012-09-10	5001	70008	5760.00
8	2012-09-10	5005	70009	270.65
9	2012-10-10	5006	70010	1983.43
10	2012-08-17	5007	70011	75.29
11	2012-06-27	5002	70012	250.45
12	2012-04-25	5001	70013	3045.60

--4.Write a SQL query to find the salespeople who lives in the City of 'Paris'. Return salesperson's name, city.

```
select name,city from Salesman where city='Paris'
```

	name	city
1	Nail Knite	Paris
2	Mc Lyon	Paris

--5.Write a SQL query to find those customers whose grade is 200. Return customer_id, cust_name, city, grade, salesman_id

```
select customer_id,cust_name,city,grade,salesman_id from Customer where grade < 200
```

	customer_id	cust_name	city	grade	salesman_id
1	3001	Brad Guzan	London	100	5005
2	3002	Nick Rimando	New York	100	5001
3	3009	Geoff Cameron	Berlin	100	5003

--6.Write a SQL query to find the orders, which are delivered by a salesperson of ID. 5001. Return ord_no, ord_date, purch_amt

```
select ord_no, ord_date, purch_amt from Orders where salesman_id = 5001
```

	ord_no	ord_date	purch_amt
1	70002	2012-10-05	65.26
2	70005	2012-07-27	2400.60
3	70008	2012-09-10	5760.00
4	70013	2012-04-25	3045.60

--7.Write a SQL query to calculate average purchase amount of all orders. Return average purchase amount.

```
select AVG(purch_amt) as avg_purchase_amt from Orders
```

	avg_purchase_amt
1	1461.765000

--8.Write a SQL query to count the number of unique salespeople. Return number of salespeople.

```
select count(salesman_id) as number_of_salesman from Salesman
```

	number_of_salesman
1	6

--9.Write a SQL query to count the number of customers. Return number of customers.

```
select count(customer_id) as number_of_customers from Customer
```

	number_of_customers
1	8

--10.Write a SQL query to find the maximum purchase amount

```
select max(purch_amt) as max_purch_amt from Orders
```

	max_purch_amt
1	5760.00

--11.Write a SQL query to find the highest grade of the customers for each of the city. Return city, maximum grade.

```
select city,max(grade) as max_grade from Customer group by city
```

	city	max_grade
1	Berlin	100
2	California	200
3	London	300
4	Moscow	200
5	New York	200
6	Paris	300

--12.Write a SQL query to find the highest purchase amount ordered by each customer. Return customer ID, maximum purchase amount

```
select customer_id,max(purch_amt) as max_purch_amt from Orders group by customer_id
```

	customer_id	max_purch_amt
1	3001	270.65
2	3002	5760.00
3	3003	75.29
4	3004	1983.43
5	3005	948.50
6	3007	2400.60
7	3008	250.45
8	3009	2480.40