```
-- create a table--
CREATE TABLE Order details (
 ord no number (7) PRIMARY KEY,
 purch amt number (10,2),
 ord date date,
 customer id number(5),
 salesman id number(5)
);
____
ALTER TABLE Order details
ADD FOREIGN KEY (customer id) REFERENCES CUSTOMER DETAILS(CUSTOMER ID);
ALTER TABLE ORDER DETAILS
ADD FOREIGN KEY (SALESMAN ID) REFERENCES SALESMAN DETAILS (SALESMAN ID);
ALTER TABLE ORDER DETAILS
ADD FOREIGN KEY (SALESMAN ID) REFERENCES SALESMAN DETAILS (SALESMAN ID);
-- insert some values-----
INSERT INTO Order details
VALUES (70001, 150.5, '10-5-2012', 3005, 5002);
INSERT INTO Order details
VALUES (70009, 270.65, '9-10-2012', 3001, 5005);
INSERT INTO Order details
VALUES (70002, 65.26, '5-10-2012', 3002, 5001);
INSERT INTO Order details
VALUES (70004, 11\overline{0}.5, '8-17-2012', 3009, 5003);
INSERT INTO Order details
VALUES (70007, 948.5 , '10-9-2012' , 3005 , 5002);
INSERT INTO Order details
VALUES (70005, 2400.6, '7-27-2012', 3007, 5001);
INSERT INTO Order details
VALUES (70008, 5760 , '9-10-2012' , 3002 , 5001);
INSERT INTO Order details
VALUES (70010, 1983.43 , '10-10-2012' , 3004 , 5006);
INSERT INTO Order details
VALUES (70003, 2480.4 , '10-10-2012' , 3009 , 5003);
INSERT INTO Order details
VALUES (70012, 250.45, '6-27-2012', 3008, 5002);
INSERT INTO Order details
VALUES (70011, 75.29 , '8-17-2012' , 3003 , 5007);
```

```
VALUES (70013, 3045.6, '4-25-2012', 3002, 5001);
select * from Order details;
1. write a SQL query to calculate total purchase amount of all orders.
Display total purchase amount.
SELECT SUM (purch amt) FROM Order details;
----output----
SUM (PURCH AMT)
17541.18
2. write a SQL query to calculate average purchase amount of all orders.
Display average purchase amount.
SELECT avg (purch amt) FROM Order details;
----output----
AVG (PURCH AMT)
1461.765
3. write a SQL query to count the number of unique salespeople. Display
number of salespeople
SELECT COUNT (salesman id) FROM Order details;
----output----
COUNT (SALESMAN ID)
12
4. write a SQL query to find the maximum purchase amount.
SELECT max (purch amt) FROM Order details;
----output----
MAX (PURCH AMT)
5760
5. write a SQL query to find the minimum purchase amount.
SELECT min (purch amt) FROM Order details;
----output----
MIN (PURCH AMT)
65.26
6. write a SQL query to count all the orders generated on '2012-08-17'.
Display number of orders.
SELECT COUNT(*) FROM Order details WHERE ord date='8-17-2012';
----output----
COUNT(*)
-- create a table 2--
CREATE TABLE customer detalis (
 customer id number (4) PRIMARY KEY,
 cust name char(50),
```

INSERT INTO Order details

```
city char(30),
 grade number (3),
 salesman id number(4)
);
ALTER TABLE CUSTOMER DETAILS
ADD FOREIGN KEY (SALESMAN ID) REFERENCES SALESMAN DETAILS (SALESMAN ID);
______
-- insert some values --
INSERT INTO customer_detalis
VALUES (3002 , 'Nick Rimando' , 'New York' , 100 , 5001);
INSERT INTO customer detalis
VALUES (3007 , 'Brad Davis' , 'New York' , 200 , 5001);
INSERT INTO customer detalis
VALUES (3005 , 'Graham Zusi' , 'California' , 200 , 5002);
INSERT INTO customer detalis
VALUES (3008 , 'Julian Green' , 'London' , 300 , 5002);
INSERT INTO customer detalis
VALUES (3004 , 'Fabian Johnson' , 'Paris' , 300 , 5006);
INSERT INTO customer detalis
VALUES (3009 , 'Geoff Cameron' , 'Berlin' , 100 , 5003);
INSERT INTO customer detalis
VALUES (3003 , 'Jozy Altidor' , 'Moscow' , 200 , 5007);
INSERT INTO customer detalis
VALUES (3001 , 'Brad Guzan' , 'London' , null , 5005);
SELECT * from customer details;
1. write a SQL query to find the highest grade of the customers for each
of the city. Display city, maximum grade.
SELECT city, MAX(grade) FROM customer details GROUP BY city;
----output----
CITY MAX (GRADE)
London
           300
Berlin
          100
New York 200
          200
Moscow
California 200
Paris 300
2. write a SQL query to count the number of customers. Display number of
customers
SELECT COUNT(*) FROM customer details;
----output----
COUNT (*)
```

```
3. write a SQL query to find the number of customers who got at least a
gradation for his/her activity.
SELECT COUNT (ALL grade) FROM customer details;
----output----
COUNT (ALLGRADE)
7. write a SQL query to find the highest grade of the customers for each
of the city. Display city, maximum grade.
SELECT city, MAX(grade) FROM customer details GROUP BY city;
----output----
CITY
       MAX (GRADE)
London
                 300
                 100
Berlin
New York 200
Moscow
                 200
California 200
      300
Paris
4. write a SQL query to find the highest purchase amount ordered by each
customer. Display customer ID, maximum urchase amount
SELECT MAX(purch amt), customer id FROM Order details GROUP BY
customer id;
----output----
MAX (PURCH AMT)
                 CUSTOMER ID
1983.43
                 3004
250.45
                 3008
          3002
5760
270.65
                 3001
        3005
948.5
2480.4
                 3009
2400.6
75.29 3003
                 3007
-- create a table 3--
CREATE TABLE SALESMAN details (
    salesman id number (5) primary key,
    name char(50),
    city char(20),
    commission number (10,2)
);
-- insert some values
INSERT INTO SALESMAN details
VALUES (5001, 'James Hoog', 'New York', 0.15);
INSERT INTO SALESMAN details
VALUES (5002, 'Nail Knite', 'Paris', 0.13);
INSERT INTO SALESMAN details
```

```
VALUES (5005, 'Pit Alex', 'London', 0.11);
INSERT INTO SALESMAN details
VALUES (5006, 'Mc Lyon', 'Paris', 0.14);
INSERT INTO SALESMAN details
VALUES (5007, 'Paul Adam', 'Rome', 0.13);
INSERT INTO SALESMAN details
VALUES (5003, 'Lauson Hen', 'San Jose', 0.12);
select * from SALESMAN details;
----output----
SALESMAN ID NAME CITY COMMISSION
5002 Nail Knite Paris .13
5005 Pit Alex London
                             .11
5006 Mc Lyon
                      Paris .14
5007 Paul Adam Rome .13
5003 Lauson Hen San Jose .12
5001 James Hoog New York .15
1. write a SQL query to count number of orders by the combination of each
order date and salesperson. Display order date, salesperson id
SELECT ord date, salesman id, COUNT(*) FROM Order details GROUP BY
ord date, salesman id;
----output----
ORD DATE
           SALESMAN ID COUNT (*)
10/05/2012 5002 1
08/17/2012 5007 1
09/10/2012 5005 1
04/25/2012 5001 1
10/05/2012 5001 1
10/10/2012 5006 1
09/10/2012 5002 1
10/10/2012 5003 1
06/27/2012 5002 1
09/10/2012 5001 1
2. write a SQL query to find the highest purchase amount ordered by each
customer on a particular date. Display , order date and highest purchase
amount
SELECT customer id, MAX(purch amt) FROM Order details WHERE customer id
BETWEEN 3002 and 3007 GROUP BY customer id;
----output----
CUSTOMER ID MAX (PURCH AMT)
3004
          1983.43
3002
           5760
3005
          948.5
3007
           2400.6
3003
           75.29
3. write a SQL query to find the highest purchase amount on '2012-08-17'
by each salesperson. Display salesperson ID, purchase amount.
SELECT customer id, ord date, MAX(purch amt)
```

```
FROM Order details
GROUP BY customer id, ord date;
----output----
CUSTOMER ID ORD DATE MAX (PURCH AMT)
3005
           09/10/2012 948.5
3009
           08/17/2012 110.5
3005
          10/05/2012 150.5
3007
          07/27/2012 2400.6
3009
          10/10/2012 2480.4
          06/27/2012 250.45
3008
3002
          09/10/2012 5760
3004
          10/10/2012 1983.43
           04/25/2012 3045.6
3002
3001
           09/10/2012 270.65
4. write a SQL query to find highest order (purchase) amount by each
customer in a particular order date. Filter the result by highest order
(purchase) amount above 2000.00. Display customer id, order date and
maximum purchase amount.
SELECT salesman id, MAX (purch amt)
FROM Order details
WHERE ord date = '8-17-2012'
GROUP BY salesman id;
----output----
SALESMAN ID MAX (PURCH AMT)
5007
           75.29
5003
           110.5
```

5. write a SQL query to find the maximum order (purchase) amount by each customer. The customer ID should be in the range 3002 and 3007 (Begin and end values are included.). Display customer id and maximum purchase amount.