225229140 SURIYA S

LAB-1

```
SQL> create table sale(salesman_id number(20), name varchar(20), city varchar(20), commission varchar(1
0));
Table created.
SQL> insert into sale(salesman_id,name,city,commission)values('&salesman_id','&name','&city','&commi
ssion'):
Enter value for salesman id: 5001
Enter value for name: chandler
Enter value for city: new york
Enter value for commission: 0.12
old 1: insert into sale(salesman_id,name,city,commission)values('&salesman_id','&name','&city','&c
new 1: insert into sale(salesman_id,name,city,commission)values('5001','chandler','new york','0.12
1 row created.
SQL> /
Enter value for salesman_id: 5002
Enter value for name: joey
Enter value for city: korea
Enter value for commission: 0.19
old 1: insert into sale(salesman_id,name,city,commission)values('&salesman_id','&name','&city','&c
new 1: insert into sale(salesman_id,name,city,commission)values('5002','joey','korea','0.19')
1 row created.
Enter value for salesman_id: 5003
Enter value for name: monica
Enter value for city: paris
Enter value for commission: 0.15
      1: insert into sale(salesman_id,name,city,commission)values('&salesman_id','&name','&city','&c
1: insert into sale(salesman_id,name,city,commission)values('5003','monica','paris','0.15')
1 row created.
SQL> /
Enter value for salesman_id: 5004
Enter value for name: ross
Enter value for city: london
Enter value for commission: 0.18
1: insert into sale(salesman_id,name,city,commission)values('&salesman_id','&name','&city','&c new 1: insert into sale(salesman_id,name,city,commission)values('5004','ross','london','0.18')
```

```
1 row created.
SQL> /
Sult /
Enter value for salesman_id: 5005
Enter value for name: rachel
Enter value for city: tokyo
Enter value for commission: 0.16
        1: insert into sale(salesman_id,name,city,commission)values('&salesman_id','&name','&city','&c
1: insert into sale(salesman_id,name,city,commission)values('5005','rachel','tokyo','0.16')
1 row created.
SQL> /
Enter value for salesman_id: 5006
Enter value for name: phoebe
Enter value for city: seoul
Enter value for commission: 0.25
         1: insert into sale(salesman_id,name,city,commission)values('&salesman_id','&name','&city','&c
1: insert into sale(salesman_id,name,city,commission)values('5006','phoebe','seoul','0.25')
1 row created.
SQL> select * from sale;
SALESMAN ID NAME
                                                    CITY
                                                                                     COMMISSION
           5001 chandler
                                                    new york
                                                                                      0.12
           5002 joey
                                                    korea
                                                                                      0.19
           5003 monica
                                                                                      0.15
           5004 ross
                                                    london
                                                                                      0.18
           5005 rachel
                                                                                      0.16
                                                    tokyo
           5006 phoebe
                                                    seoul
                                                                                      0.25
6 rows selected.
```

CUSTOMER TABLE

```
SQL> create table customertable(customer id number(20), cust name varchar(20), city varchar(20), qrade
varchar(10),salesman_id number(20));
Table created.
SQL> insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('&customer_id','&cust_name','&city','&grade','&salesman_id');
Enter value for customer_id: 1001
Enter value for cust_name: professor
Enter value for city: california
Enter value for grade: 100
Enter value for salesman_id: 5002
       1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('&customer_id
old
       1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('1001','profe
1 row created.
S0L> /
Enter value for customer id: 1002
Enter value for cust name: berlin
Enter value for city: russia
Enter value for grade: 200
Enter value for salesman_id: 5005
old 1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('&customer_id new 1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('1002','berli
1 row created.
SQL> /
Enter value for customer_id: 1003
Enter value for cust_name: rio
Enter value for city: spain
Enter value for grade: 100
Enter value for salesman_id: 5001
       1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('&customer_id
       1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('1003','riō',
new
1 row created.
SQL> /
Enter value for customer_id: 1004
Enter value for cust_name: jenifer 
Enter value for city: korea
Enter value for grade: 200
Enter value for salesman_id: 5002
       1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('&customer_id
       1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('1004','jenif
1 row created.
```

```
SQL> /
Enter value for customer_id: 1005
Enter value for cust_name: swetha
Enter value for city: seoul
Enter value for grade: 300
Enter value for salesman_id: 5006
        1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('&customer_id
1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('1005','sweth
old
new
1 row created.
Enter value for customer_id: 1006
Enter value for cust_name: tae
Enter value for city: moscow
Enter value for grade: 100
Enter value for salesman_id: 5003
        1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('&customer_id
1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('1006','tae',
old
new
1 row created.
SQL> /
Enter value for customer_id: 1007
Enter value for cust_name: suga
Enter value for city: paris
Enter value for grade: 200
Enter value for salesman_id: 5005
        1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('&customer_id
1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('1007','suga'
old
new
1 row created.
SQL> /
Enter value for customer id: 1008
Enter value for cust_name: jungkook
Enter value for city: london
Enter value for grade: 300
Enter value for salesman_id: 5004
        1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('&customer_id
        1: insert into customertable(customer_id,cust_name,city,grade,salesman_id)values('1008','jungk
1 row created.
```

SQL> select * from customertable;

${\tt CUSTOMER_ID}$	CUST_NAME	CITY	GRADE	SALESMAN_ID
1002 1003 1004	jenifer swetha	california russia spain korea seoul moscow	100 200 100 200 200 200 300 100	5002 5005 5001 5002 5006 5003
1007	suga jungkook	paris london	200 300	5 0 0 3 5 0 0 5 5 0 0 4

8 rows selected.

ORDER TABLE

SQL> create table ordertable(ord_no number(20),purch_amt varchar(20),ord_date varchar(20),customer_i
d number(10),salesman_id number(20));

Table created.

```
SQL> insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','&purch_amt','&ord_date','&customer_id','&salesman_id');
Enter value for ord_no: 70001
Enter value for purch_amt: 150.5
Enter value for ord_date: 2012-10-05
Enter value for customer_id: 1008
Enter value for salesman_id: 5004
old 1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','
new 1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70001','15)
```

```
SQL> insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','&purch_amt','&ord_date','&customer_id','&salesman_id');
Enter value for ord_no: 70009
Enter value for purch_amt: 270.65
Enter value for ord_date: 2012-09-10
Enter value for customer_id: 1003
Enter value for salesman_id: 5001
old 1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','new 1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70009','27)
1 row created.
Enter value for ord_no: 70002
Enter value for purch_amt: 65.26
Enter value for ord_date: 2012-10-05
Enter value for customer_id: 1007
Enter value for salesman_id: 5005
old 1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','
new 1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70002','65
1 row created.
SQL> /
SqL7/
Enter value for ord_no: 70004
Enter value for purch_amt: 110.5
Enter value for ord_date: 2012-08-17
Enter value for customer_id: 1005
Enter value for salesman_id: 5006
               1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70004','11
old
new
1 row created.
SOL> /
Enter value for ord_no: 70007
Enter value for purch_amt: 948.5
Enter value for ord_date: 2012-09-10
Enter value for customer_id: 1003
Enter value for salesman_id: 5001
               1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70007','94
new
1 row created.
```

```
SQL> /
Enter value for ord_no: 70005
Enter value for purch_amt: 2400.6
Enter value for ord_date: 2012-07-27
Enter value for customer_id: 1006
Enter value for salesman_id: 5003
         1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','
1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70005','24
1 row created.
SQL> /
Enter value for ord_no: 70008
Enter value for purch_amt: 5760
Enter value for ord_date: 2012-09-10
Enter value for customer_id: 1001
Enter value for salesman_id: 5002
old
         1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','
1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70008','57
1 row created.
SQL> insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','&pur ch_amt','&ord_date','&customer_id','&salesman_id');
Enter value for ord_no: 70010
Enter value for purch_amt: 1983.43
Enter value for ord_date: 2012-10-10
Enter value for customer_id: 1002
Enter value for salesman_id: 5005
          1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','
1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70010','19
new
1 row created.
SQL> /
Enter value for ord_no: 70003
Enter value for purch_amt: 2480.4
Enter value for ord_date: 2012-10-10
Enter value for customer_id: 1007
Enter value for salesman_id: 5005
          1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70003','24
old.
new
1 row created.
SQL> /
Enter value for ord_no: 70012
Enter value for purch_amt: 250.45
Enter value for ord_date: 2012-06-27
Enter value for customer_id: 1004
Enter value for salesman_id: 5002
          1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','
1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70012','25
1 row created.
SQL> /
Enter value for ord_no: 70011
Enter value for purch_amt: 75.29
Enter value for ord_date: 2012-08-17
Enter value for customer_id: 1003
Enter value for salesman_id: 5001
          1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no'
          1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70011','75
```

1 row created.

```
SQL> insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no','&purch_amt','&ord_date','&customer_id','&salesman_id');
Enter value for ord_no: 70013
Enter value for purch_amt: 3045.6
Enter value for ord_date: 2012-04-25
Enter value for customer_id: 1005
Enter value for salesman_id: 5006
old 1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('&ord_no',' new 1: insert into ordertable(ord_no,purch_amt,ord_date,customer_id,salesman_id)values('70013','30)
1 row created.
```

SQL> select * from ordertable;

ORD_NO	PURCH_AMT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
70001	150.5	2012-10-05	1008	5004
70009	270.65	2012-09-10	1003	5001
70002	65.26	2012-10-05	1007	5005
70004	110.5	2012-08-17	1005	5006
70007	948.5	2012-09-10	1003	5001
70005	2400.6	2012-07-27	1006	5003
70008	5760	2012-09-10	1001	5002
70010	1983.43	2012-10-10	1002	5005
70003	2480.4	2012-10-10	1007	5005
70012	250.45	2012-06-27	1004	5002
70011	75.29	2012-08-17	1993	5001
ORD_NO	PURCH_AMT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
70013	3045.6	2012-04-25	1995	5006

12 rows selected.

1. write a SQL query to find all salespeople and customers located in the

city of London.

SQL> select salesman_id,name from sale where city='london' union select customer_id,cust_name from c ustomertable where city='london';

2. write a SQL query to find distinct salespeople and their cities. Return

salesperson ID and city

SQL> select salesman_id, city from customertable union select salesman_id, city from sale;

11 rows selected.

3. write a SQL query to find all those salespeople and customers who are

involved in the inventory management system. Return salesperson ID,

customer ID.

```
SQL> select salesman_id, customer_id from customertable UNION select salesman_id, customer_id from o
```

8 rows selected.

4. write a SQL query to find the salespersons who generated the largest

and smallest orders on each date. Return salesperson ID, name, order

no., highest on/lowest on, order date

```
SQL> SELECT a.salesman id, name, ord no, 'highest on', ord date
 2 FROM sale a, ordertable b
   WHERE a.salesman_id =b.salesman_id
   AND b.purch amt=
    (SELECT MAX (purch amt)
    FROM ordertable c
    WHERE c.ord_date = b.ord_date)
 8
   UNION
 9
    (SELECT a.salesman id, name, ord no, 'lowest on', ord date
10 FROM sale a, ordertable b
11 WHERE a.salesman_id =b.salesman_id
12 AND b.purch amt=
    (SELECT MIN (purch_amt)
13
14
     FROM ordertable c
     N_ID NAME

5001 chandler

5001 chandler

5001 chandler

5001 chandler
15
     WHERE c.ord date = b.ord date));
SALESMAN_ID NAME
                               ORD_NO 'HIGHESTON ORD_DATE
70007 highest on 2012-09-10
                                  70009 lowest on 2012-09-10
                                  70011 highest on 2012-08-17
                                  70012 highest on 2012-06-27
                                  70012 lowest on 2012-06-27
                                  70005 highest on 2012-07-27
                                  70005 lowest on 2012-07-27
70001 lowest on 2012-10-05
      5004 ross
                                  70002 highest on 2012-10-05
      5005 rachel
      5005 rachel
                                  70003 highest on 2012-10-10
      5005 rachel
                                  70010 lowest on 2012-10-10
SALESMAN_ID NAME
                                ORD_NO 'HIGHESTON ORD_DATE
_________
      5006 phoebe
                                  70004 lowest on 2012-08-17
      5006 phoebe
                                  70013 highest on 2012-04-25
                                   70013 lowest on 2012-04-25
      5006 phoebe
```

14 rows selected.

5. write a SQL query to find the salespeople who generated the largest

and smallest orders on each date. Sort the result-set on third field.

Return salesperson ID, name, order no., highest on/lowest on, order date

```
SQL> SELECT a.salesman id, name, ord no, 'highest on', ord date
 2 FROM sale a, ordertable b
  3 WHERE a.salesman_id =b.salesman_id
  4 AND b.purch_amt=
     (SELECT MAX (purch_amt)
 5
      FROM ordertable c
     WHERE c.ord_date = b.ord_date)
    (SELECT a.salesman_id, name, ord_no, 'lowest on', ord_date
 10 FROM sale a, ordertable b
     WHERE a.salesman_id =b.salesman_id
 12 AND b.purch_amt=
     (SELECT MIN (purch_amt)
 14
      FROM ordertable c
 15
      WHERE c.ord_date = b.ord_date))
    ORDER BY 3;
 16
SALESMAN_ID NAME
                                    ORD_NO 'HIGHESTON ORD_DATE
       5004 ross
                                        70001 lowest on 2012-10-05
70002 highest on 2012-10-05
       5005 rachel
       5005 rachel
                                        70003 highest on 2012-10-10
                                   70003 nignest on 2012-10-10
70004 lowest on 2012-08-17
70005 highest on 2012-07-27
70005 lowest on 2012-07-27
70007 highest on 2012-09-10
70009 lowest on 2012-09-10
       5006 phoebe
       5003 monica
       5003 monica
       5001 chandler
5001 chandler
                                        70009 lowest on 2012-09-10
                                        70010 lowest on 2012-10-10
       5005 rachel
       5001 chandler
                                        70011 highest on 2012-08-17
       5002 joey
                                        70012 highest on 2012-06-27
SALESMAN_ID NAME
                                       ORD_NO 'HIGHESTON ORD_DATE
5002 joey
                                        70012 lowest on 2012-06-27
       5006 phoebe
                                        70013 highest on 2012-04-25
70013 lowest on 2012-04-25
       5006 phoebe
```

14 rows selected.