SET OPERATIONS

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```
SQL> select *from salesman;

SALESMAN_ID NAME       CITY       COMMI
----------- ---------- ---------- -----
      5001 James Hoog New York   .15
      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
6 rows selected.

SQL> select*from customer;

CUSTOMER_ID CUST_NAME          CITY          GRADE SALESMAN_ID
----------- -------------------- ---------- ---------- -----------
      3007 Brad Davis          New York        200       5001
      3005 Graham Zusi         California      200       5002
      3008 Julian Green        London          300       5002
      3004 Fabian Johnson      Paris           300       5006
      3009 Geoff Cameron       Berlin          100       5003
      3003 Jozy Altidor        Moscow          200       5007
      3001 Brad Guzan          London                    5005
7 rows selected.
```

SQL> select*from ordertable;

ORD_NO	PURCH_AMT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007

11 rows selected.

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

```
SQL> select name,city from salesman where city='London'
  2  union
  3  select cust_name,city from customer where city='London';
```

NAME	CITY
Brad Guzan	London
Julian Green	London
Pit Alex	London

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

```
SQL> select salesman_id,city from customer
  2  union
  3  select salesman_id,city from salesman;
```

```
SALESMAN_ID CITY
----------- ----------
       5001 New York
       5002 California
       5002 London
       5002 Paris
       5003 Berlin
       5003 San Jose
       5005 London
       5006 Paris
       5007 Moscow
       5007 Rome
```

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 customer
  2  union
  3  select salesman_id,customer_id from ordertable;
```

SALESMAN_ID CUSTOMER_ID

---------- ----------

5001 3002

5001 3007

5002 3005

5002 3008

5003 3009

5005 3001

5006 3004

5007 3003

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 from salesman 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)

2 union

3 select a.salesman_id,name,ord_no,'lowest on',ord_date from salesman a,ordertable b where a.salesman_id=b.salesman_id and b.purch_amt=(select min(purch_amt) from ordertable c where c.ord_date=b.ord_date);

SALESMAN_ID NAME ORD_NO 'HIGHESTON ORD_DATE

---------- ---------- ---------- ---------- ----------

5001 James Hoog 70002 highest on 2012-10-05

5001 James Hoog 70005 highest on 2012-07-27

5001 James Hoog 70005 lowest on 2012-07-27

5002 Nail Knite 70001 lowest on 2012-10-05

5002 Nail Knite 70007 highest on 2012-09-10

5002 Nail Knite 70012 highest on 2012-06-27

5002 Nail Knite 70012 lowest on 2012-06-27

5003 Lauson Hen 70003 highest on 2012-10-10

5003 Lauson Hen 70004 lowest on 2012-08-17

5005 Pit Alex 70009 lowest on 2012-09-10

5006 Mc Lyon 70010 lowest on 2012-10-10

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 from salesman
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)
  2  union
  3  select a.salesman_id,name,ord_no,'lowest on',ord_date from salesman
a,ordertable b where a.salesman_id=b.salesman_id and b.purch_amt=(select
min(purch_amt) from ordertable c where c.ord_date=b.ord_date) order by 3;
```

SALESMAN_ID NAME ORD_NO 'HIGHESTON ORD_DATE

---------- ---------- ---------- ---------- ----------

5002 Nail Knite 70001 lowest on 2012-10-05

5001 James Hoog 70002 highest on 2012-10-05

5003 Lauson Hen 70003 highest on 2012-10-10

5003 Lauson Hen 70004 lowest on 2012-08-17

5001 James Hoog 70005 highest on 2012-07-27

5001 James Hoog 70005 lowest on 2012-07-27

5002 Nail Knite 70007 highest on 2012-09-10

5005 Pit Alex 70009 lowest on 2012-09-10

5006 Mc Lyon 70010 lowest on 2012-10-10

5007 Paul Adam 70011 highest on 2012-08-17

5002 Nail Knite 70012 highest on 2012-06-27

SALESMAN_ID NAME ORD_NO 'HIGHESTON ORD_DATE

---------- ---------- ---------- ---------- ----------

5002 Nail Knite 70012 lowest on 2012-06-27

12 rows selected.