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**SET OF OPERATIONS**

**SQL> select \* from salesman;**

<b>SALESMAN_ID</b>	<b>NAME</b>	<b>CITY</b>	<b>COMMISSION</b>
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<b>5001</b>	<b>james hoog</b>	<b>new york</b>	<b>.15</b>
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<b>5002</b>	<b>nail knite</b>	<b>paris</b>	<b>.13</b>
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<b>5005</b>	<b>pit alex</b>	<b>london</b>	<b>.11</b>
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<b>5006</b>	<b>mc lyon</b>	<b>paris</b>	<b>.14</b>
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<b>5007</b>	<b>paul adam</b>	<b>rome</b>	<b>.13</b>
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<b>5003</b>	<b>lauson hen</b>	<b>san jose</b>	<b>.12</b>
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**6 rows selected.**

**SQL> desc custom;**

<b>Name</b>	<b>Null?</b>	<b>Type</b>
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<b>CUST_ID</b>		<b>NUMBER(5)</b>
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<b>CUST_NAME</b>		<b>VARCHAR2(12)</b>
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<b>CITY</b>		<b>VARCHAR2(10)</b>
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<b>GRADE</b>		<b>NUMBER(3)</b>
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<b>SALESMAN_ID</b>		<b>NUMBER(4)</b>
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**SQL> insert into custom values(3002,'nick rimand','new york',100,5001);**

**1 row created.**

**SQL> insert into custom values(300**

**2**

**SQL> insert into custom values(300**

**2**

**SQL> insert into custom values(3007,'brad davis','new york',200,5001);**

**1 row created.**

**SQL> insert into custom values(3005,'graham zus','california',200,5002);**

**1 row created.**

**SQL> insert into custom values(3008,'julian green','london',300,5002);**

**1 row created.**

**SQL> insert into custom values(3004,'fabinjohn','paris',300,5006);**

**1 row created.**

**SQL> insert into custom values(3009,'geoff cam','berlin',100,5003);**

**1 row created.**

**SQL> insert into custom values(3003,'jozy altid','moscow',200,5007);**

**1 row created**

**SQL> insert into custom values(3001,'bcad guzao','london',null,5005);**

**1 row created.**

**SQL> select \* from custom;**

<b>CUST_ID</b>	<b>CUST_NAME</b>	<b>CITY</b>	<b>GRADE</b>	<b>SALESMAN_ID</b>
3002	nick rimand	new york	100	5001
3007	brad davis	new york	200	5001
3005	graham zus	california	200	5002
3008	julian green	london	300	5002
3004	fabinjohn	paris	300	5006
3009	geoff cam	berlin	100	5003
3003	jozy altid	moscow	200	5007
3001	bcad guzao	london		5005

8 rows selected.

```
SQL> create table ordertab(order_no number(6),purc_amt decimal(6),ord_date
date,cust_id number(5),sa
lesman_id number(5));
```

Table created.

```
SQL> desc ordertab;
```

Name	Null?	Type
-----		
ORDER_NO		NUMBER(6)
PURC_AMT		NUMBER(6)
ORD_DATE		DATE
CUST_ID		NUMBER(5)
SALESMAN_ID		NUMBER(5)

```
SQL> insert into
ordertab(order_no,purc_amt,ord_date,cust_id,salesman_id)values('&order_no','&pur_ma
```

2

```
SQL>
```

```
SQL> insert into
ordertab(order_no,purc_amt,ord_date,cust_id,salesman_id)values('&order_no','&pur
```

2

```
SQL> insert into
ordertab(order_no,purc_amt,ord_date,cust_id,salesman_id)values('&order_no',
```

2

```
SQL> insert into  
ordertab(order_no,purc_amt,ord_date,cust_id,salesman_id)values('&order_no','&purc_  
amt','&ord_date','&cust_id','&salesman_id');
```

Enter value for order\_no: 70001

Enter value for purc\_amt: 150.5

Enter value for ord\_date: 05-Oct-12

Enter value for cust\_id: 3005

Enter value for salesman\_id: 5002

```
old 1: insert into  
ordertab(order_no,purc_amt,ord_date,cust_id,salesman_id)values('&order_no','&p
```

```
new 1: insert into  
ordertab(order_no,purc_amt,ord_date,cust_id,salesman_id)values('70001','150.5'
```

1 row created.

```
SQL> /
```

Enter value for order\_no: 70009

Enter value for purc\_amt: 270.65

Enter value for ord\_date: 10-Sep-12

Enter value for cust\_id: 3001

Enter value for salesman\_id: 5005

```
old 1: insert into  
ordertab(order_no,purc_amt,ord_date,cust_id,salesman_id)values('&order_no','&p
```

```
new 1: insert into  
ordertab(order_no,purc_amt,ord_date,cust_id,salesman_id)values('70009','270.65'
```

**1 row created.**

**SQL> /**

**Enter value for order\_no: 70002**

**Enter value for purc\_amt: 65.26**

**Enter value for ord\_date: 05-Oct-12**

**Enter value for cust\_id: 3002**

**Enter value for salesman\_id: 5001**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70002','65.26'**

**1 row created.**

**SQL> /**

**Enter value for order\_no: 70004**

**Enter value for purc\_amt: 110.5**

**Enter value for ord\_date: 17-Aug-12**

**Enter value for cust\_id: 3009**

**Enter value for salesman\_id: 5003**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70004','110.5'**

**1 row created.**

**SQL> /**

**Enter value for order\_no: 70007**

**Enter value for purc\_amt: 948.5**

**Enter value for ord\_date: 10-Sep-12**

**Enter value for cust\_id: 3005**

**Enter value for salesman\_id: 5002**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70007','948.5'**

**1 row created.**

**SQL> /**

**Enter value for order\_no: 70005**

**Enter value for purc\_amt: 2400.5**

**Enter value for ord\_date: 27-July-12**

**Enter value for cust\_id: 3007**

**Enter value for salesman\_id: 5001**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70005','2400.5'**

**1 row created.**

**SQL> /**

**Enter value for order\_no: 70008**

**Enter value for purc\_amt: 5760**

**Enter value for ord\_date: 10-Sep-12**

**Enter value for cust\_id: 3002**

**Enter value for salesman\_id: 5001**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70008','5760',**

**1 row created.**

**SQL> /**

**Enter value for order\_no: 70010**

**Enter value for purc\_amt: 1983.43**

**Enter value for ord\_date: 10-Oct-12**

**Enter value for cust\_id: 3004**

**Enter value for salesman\_id: 5006**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70010','1983.4**

**1 row created.**

**SQL> commit;**

**Commit complete.**



```
SQL> alter table ordertab modify(purc_amt float);
```

Table altered.

```
SQL> desc ordertab;
```

Name	Null?	Type
-----		
ORDER_NO		NUMBER(6)
PURC_AMT		FLOAT(126)
ORD_DATE		DATE
CUST_ID		NUMBER(5)
SALESMAN_ID		NUMBER(5)

```
SQL> select * from ordertab;
```

ORDER_NO	PURC_AMT	ORD_DATE	CUST_ID	SALESMAN_ID
-----				
70001	151	05-OCT-12	3005	5002
70009	271	10-SEP-12	3001	5005
70002	65	05-OCT-12	3002	5001
70004	111	17-AUG-12	3009	5003
70007	949	10-SEP-12	3005	5002
70005	2401	27-JUL-12	3007	5001
70008	5760	10-SEP-12	3002	5001
70010	1983	10-OCT-12	3004	5006

**8 rows selected.**

**SQL> update ordertab set purc\_amt=150.5 where order\_no=70001;**

**1 row updated.**

**SQL> select \* from ordertab;**

<b>ORDER_NO</b>	<b>PURC_AMT</b>	<b>ORD_DATE</b>	<b>CUST_ID</b>	<b>SALESMAN_ID</b>
70001	150.5	05-OCT-12	3005	5002
70009	271	10-SEP-12	3001	5005
70002	65	05-OCT-12	3002	5001
70004	111	17-AUG-12	3009	5003
70007	949	10-SEP-12	3005	5002
70005	2401	27-JUL-12	3007	5001
70008	5760	10-SEP-12	3002	5001
70010	1983	10-OCT-12	3004	5006

**8 rows selected.**

**SQL> update ordertab set purc\_amt=270.65 where order\_no=70009;**

**1 row updated.**

**SQL> update ordertab set purc\_amt=65.26 where order\_no=70002;**

**1 row updated.**

**SQL> update ordertab set purc\_amt=110.5 where order\_no=70004;**

**1 row updated.**

**SQL> update ordertab set purc\_amt=948.5 where order\_no=70007;**

**1 row updated.**

**SQL> update ordertab set purc\_amt=2400.6 where order\_no=70005;**

**1 row updated.**

**SQL> update ordertab set purc\_amt=1983.43 where order\_no=70010;**

**1 row updated.**

**SQL> insert into  
ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&purc\_  
amt','&ord\_date','&cust\_id','&salesman\_id');**

**Enter value for order\_no: 70003**

**Enter value for purc\_amt: 2480.4**

**Enter value for ord\_date: 10-Oct-12**

**Enter value for cust\_id: 3009**

**Enter value for salesman\_id: 5003**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70003','2480.4**

**1 row created.**

**SQL> /**

**Enter value for order\_no: 70012**

**Enter value for purc\_amt: 250.45**

**Enter value for ord\_date: 27-Jun-12**

**Enter value for cust\_id: 3008**

**Enter value for salesman\_id: 5002**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70012','250.45**

**1 row created.**

**SQL> /**

**Enter value for order\_no: 70011**

**Enter value for purc\_amt: 75.29**

**Enter value for ord\_date: 17-Aug-12**

**Enter value for cust\_id: 3003**

**Enter value for salesman\_id: 5007**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70011','75.29'**

**1 row created.**

**SQL> /**

**Enter value for order\_no: 70013**

**Enter value for purc\_amt: 3045.6**

**Enter value for ord\_date: 25-Apr-12**

**Enter value for cust\_id: 3002**

**Enter value for salesman\_id: 5001**

**old 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('&order\_no','&p**

**new 1: insert into**

**ordertab(order\_no,purc\_amt,ord\_date,cust\_id,salesman\_id)values('70013','3045.6**

**1 row created.**

**SQL> select \* from ordertab;**

<b>ORDER_NO</b>	<b>PURC_AMT</b>	<b>ORD_DATE</b>	<b>CUST_ID</b>	<b>SALESMAN_ID</b>
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<b>70001</b>	<b>150.5</b>	<b>05-OCT-12</b>	<b>3005</b>	<b>5002</b>
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70009	270.65	10-SEP-12	3001	5005
70002	65.26	05-OCT-12	3002	5001
70004	110.5	17-AUG-12	3009	5003
70007	948.5	10-SEP-12	3005	5002
70005	2400.6	27-JUL-12	3007	5001
70008	5760	10-SEP-12	3002	5001
70010	1983.43	10-OCT-12	3004	5006
70003	2480.4	10-OCT-12	3009	5003
70012	250.45	27-JUN-12	3008	5002
70011	75.29	17-AUG-12	3003	5007

ORDER_NO	PURC_AMT	ORD_DATE	CUST_ID	SALESMAN_ID
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70013	3045.6	25-APR-12	3002	5001
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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 salesman where city='London'
```

```
2 UNION
```

```
3 select customer_id,cust_name from customer 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 customer

2 UNION

3 select salesman\_id,city from salesman;

**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 order\_table;

**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**

```
SELECT a.salesman_id, name, ord_no, 'highest on', ord_date
FROM salesman a, orders b
WHERE a.salesman_id =b.salesman_id
AND b.purch_amt=
```

```

        (SELECT MAX (purch_amt)
        FROM orders c
        WHERE c.ord_date = b.ord_date)
UNION
(SELECT a.salesman_id, name, ord_no, 'lowest on', ord_date
FROM salesman a, orders b
WHERE a.salesman_id =b.salesman_id
AND b.purch_amt=
        (SELECT MIN (purch_amt)
        FROM orders c
        WHERE c.ord_date = b.ord_date))
ORDER BY 3

```

**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**

```

SELECT a.salesman_id, name, ord_no, 'highest on', ord_date
FROM salesman a, orders b
WHERE a.salesman_id =b.salesman_id
AND b.purch_amt=
        (SELECT MAX (purch_amt)
        FROM orders c
        WHERE c.ord_date = b.ord_date)
UNION
(SELECT a.salesman_id, name, ord_no, 'lowest on', ord_date
FROM salesman a, orders b
WHERE a.salesman_id =b.salesman_id
AND b.purch_amt=
        (SELECT MIN (purch_amt)
        FROM orders c
        WHERE c.ord_date = b.ord_date))
ORDER BY 3

```