

SET OPERATORS

Roll no:225229110

SQL> select * from salesman;

SALESMAN_ID	NAME	CITY	COMMISSION
-------------	------	------	------------

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> desc custom;

Name	Null?	Type
------	-------	------

CUST_ID		NUMBER(5)
---------	--	-----------

CUST_NAME		VARCHAR2(12)
-----------	--	--------------

CITY		VARCHAR2(10)
------	--	--------------

GRADE		NUMBER(3)
-------	--	-----------

SALESMAN_ID		NUMBER(4)
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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);

insert into custom values(3001,'bcad guzao','london',null,5005)

ERROR at line 1:

ORA-00917: missing comma

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

1 row created.

SQL> select * from custom;

CUST_ID	CUST_NAME	CITY	GRADE	SALESMAN_ID
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 values(70001,150.5,05-Oct-12,3005,5002);
```

```
insert into values(70001,150.5,05-Oct-12,3005,5002)
```

*

ERROR at line 1:

ORA-00903: invalid table name

SQL> insert into ordertab values(70001,150.5,05-Oct-12,3005,5002);

insert into ordertab values(70001,150.5,05-Oct-12,3005,5002)

*

ERROR at line 1:

ORA-00984: column not allowed here

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> alter table drop('purc_date');

alter table drop('purc_date')

ERROR at line 1:

ORA-00903: invalid table name

SQL> alter table ordertab drop('purc_date');

alter table ordertab drop('purc_date')

ERROR at line 1:

ORA-00904: : invalid identifier

SQL> commit;

Commit complete.

SQL> alter table ordertab drop('purc_amt');

alter table ordertab drop('purc_amt')

ERROR at line 1:

ORA-00904: : invalid identifier

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;

ORDER_NO	PURC_AMT	ORD_DATE	CUST_ID	SALESMAN_ID
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 whwre order_no=70007;

update ordertab set purc_amt=948.5 whwre order_no=70007

ERROR at line 1:

ORA-00933: SQL command not properly ended

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 values(70003,2480.4,10-Oct-12,3009,5003);

insert into ordertab values(70003,2480.4,10-Oct-12,3009,5003)

ERROR at line 1:

ORA-00984: column not allowed here

```
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;
```

ORDER_NO	PURC_AMT	ORD_DATE	CUST_ID	SALESMAN_ID
70001	150.5	05-OCT-12	3005	5002
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
70013	3045.6	25-APR-12	3002	5001

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
```