

Table - I (CLIENT_MASTER)

Data for Client_Master				
Client_No	Name	City	Pincode	Bal_due
C00001	SMITHA JAIN	Mumbai	400054	15000
C00002	VANDANA RAO	Chennai	780001	0
C00003	PREM PUJARI	Mumbai	400057	5000
C00004	BASU NATH	Mumbai	400056	0
C00005	RAVI SHANKAR	Delhi	100001	2000
C00006	ROOPA	Mumbai	400050	0

Table - II (SALE_ORDER)

Data for Sale_Order					
Order_No	Order_Date	Client_No	Salesman_No	Dely_Date	Order_Status
O19001	12-Jan-13	C00001	S00001	20-Jan-13	In process
O19002	25-Jan-13	C00002	S00002	27-Jan-13	Cancelled
O46865	18-Feb-13	C00003	S00003	20-Feb-13	Fulfilled
O19003	03-Apr-13	C00001	S00001	07-Apr-13	Fulfilled
O46866	20-May-13	C00004	S00002	07-Apr-13	Cancelled
O19008	24-May-13	C00005	S00004	26-May-13	In process

Write SQL commands for the following:

1. List all details from the client_master table for clients whose Bal_due = 0.
2. Update table client_master, Change city of Client_no C00004 to Jaipur.
3. Retrieve records of clients residing in Mumbai.
4. Find the name and address of customer who has placed Order_no 'O19003' and 'O19002' respectively.
5. Construct English like sentence from the table client_master ({Customer name} live in the city of {city}).
6. List the client_no, name, city and pincode of clients whose Order_status is "In process".

```
SQL> create table CLIENT_MASTER (Client_No varchar2(8),Name varchar2(20),city varchar2(15),pincode number(10),Bal_due number(9));
```

Table created.

```
SQL> desc CLIENT_MASTER;
```

Name	Null?	Type
CLIENT_NO		VARCHAR2(8)
NAME		VARCHAR2(20)
CITY		VARCHAR2(15)
PINCODE		NUMBER(10)
BAL_DUE		NUMBER(9)

```
SQL> insert into CLIENT_MASTER values('c00001','SMITHA JAIN','Mumbai',400054,15000);
```

1 row created.

```
SQL> insert into CLIENT_MASTER values('c00002','VANDANA RAO','Chennai',780001,0);
```

1 row created.

```
SQL> insert into CLIENT_MASTER values('c00003','PREM PUJARI','Mumbai',400057,5000);
```

1 row created.

```
SQL> insert into CLIENT_MASTER values('c00004','BASU NATH','Mumbai',400056,0);
```

1 row created.

```
SQL> insert into CLIENT_MASTER values('c00005','RAVI SHANKAR','Delhi',100001,2000);
```

1 row created.

```
SQL> insert into CLIENT_MASTER values('c00006','ROOPA','Mumbai',400050,0);
```

1 row created.

```
SQL> commit;
```

Commit complete.

```
SQL> select * from client_master where bal_due=0;
```

CLIENT_N	NAME	CITY	PINCODE	BAL_DUE
c00002	VANDANA RAO	Chennai	780001	0
c00004	BASU NATH	Mumbai	400056	0
c00006	ROOPA	Mumbai	400050	0

```
SQL> update client_master set city='Jaipur' where client_no='C00004';
```

```
0 rows updated.
```

```
SQL> select * from CLIENT_MASTER;
```

CLIENT_N	NAME	CITY	PINCODE	BAL_DUE
c00001	SMITHA JAIN	Mumbai	400054	15000
c00002	VANDANA RAO	Chennai	780001	0
c00003	PREM PUJARI	Mumbai	400057	5000
c00004	BASU NATH	Mumbai	400056	0
c00005	RAVI SHANKAR	Delhi	100001	2000
c00006	ROOPA	Mumbai	400050	0

```
6 rows selected.
```

```
SQL> select * from client_master where city='Mumbai';
```

CLIENT_N	NAME	CITY	PINCODE	BAL_DUE
c00001	SMITHA JAIN	Mumbai	400054	15000
c00003	PREM PUJARI	Mumbai	400057	5000
c00004	BASU NATH	Mumbai	400056	0
c00006	ROOPA	Mumbai	400050	0

```
SQL> SELECT c.Name, c.City, c.Pincode FROM CLIENT_MASTER c JOIN ORDER_MASTER o ON c.Client_No = o.Client_No WHERE o.Order_No = '019003';
```

NAME	CITY	PINCODE
SMITHA JAIN	Mumbai	400054

```
SQL> SELECT c.Name, c.City, c.Pincode FROM CLIENT_MASTER c JOIN ORDER_MASTER o ON c.Client_No = o.Client_No WHERE o.Order_No = '019002';
```

NAME	CITY	PINCODE
VANDANA RAO	Chennai	700001

```
SQL> SELECT Name || ' lives in the city of ' || City AS Sentence FROM CLIENT_MASTER;
```

SENTENCE

SMITHA JAIN lives in the city of Mumbai
VANDANA RAO lives in the city of Chennai
PREM PUJARI lives in the city of Mumbai
BASU NATH lives in the city of Mumbai
RAVI SHANKAR lives in the city of Delhi
ROOPA lives in the city of Mumbai

6 rows selected.

```
SQL> SELECT DISTINCT c.Client_No, c.Name, c.City, c.Pincode FROM CLIENT_MASTER c JOIN ORDER_MASTER o ON c.Client_No = o.Client_No WHERE o.Order_Status = 'In process';
```

CLIENT_N	NAME	CITY	PINCODE
c00005	RAVI SHANKAR	Delhi	100001

SQL RELATIONAL OPERATIONS

```
SQL> create table tbl_employee(Eid varchar2(5),Ename varchar2(20),Esalary number(20));
```

Table created.

```
SQL> desc tbl_employee;
```

Name	Null?	Type
EID		VARCHAR2(5)
ENAME		VARCHAR2(20)
ESALARY		NUMBER(20)

```
SQL> insert into tbl_employee values('01','Sri','500');
```

1 row created.

```
SQL> insert into tbl_employee values('02','krish','85000');
```

1 row created.

```
SQL> insert into tbl_employee values('03','Ajay','15000');
```

1 row created.

```
SQL> insert into tbl_employee values('04','Nandu','1500');
```

1 row created.

```
SQL> select * from tbl_employee;
```

EID	ENAME	ESALARY
01	Sri	500
02	krish	85000
03	Ajay	15000
04	Nandu	1500

```
SQL> select * from tbl_employee where eid in (01,02,06);
```

EID	ENAME	ESALARY
01	Sri	500
02	krish	85000

```
SQL> SET Ename = REPLACE(Ename, 'k', 'K');
```

SP2-0158: unknown SET option "Ename"

```
SQL> select * from tbl_employee where eid not in (01,02,06);
```

EID	ENAME	ESALARY
03	Ajay	15000
04	Nandu	1500

```
SQL> select * from tbl_employee order by Eid;
```

EID	ENAME	ESALARY
01	Sri	500
02	krish	85000
03	Ajay	15000
04	Nandu	1500
5		7000

```
SQL> select * from tbl_employee order by Ename;
```

EID	ENAME	ESALARY
03	Ajay	15000
04	Nandu	1500
01	Sri	500
02	krish	85000
5		7000

```
SQL> select * from tbl_employee order by Ename desc ;
```

EID	ENAME	ESALARY
5		7000
02	krish	85000
01	Sri	500
04	Nandu	1500
03	Ajay	15000