

Assignment : 2

A) CREATE the following TABLE as client_yourname eg. client_pooja

Column Name	Datatype	Size	Constraints
Client No	Char	6	Primary Key
Name	Varchar2	20	Not Null
Phone	Number		Unique
City	Varchar2	15	Must be Mumbai, Pune, Delhi, Nashik
Pincode	Number	6	
Gender	Varchar	1	Can be either 'F' or 'M'
State	Varchar2	20	Default 'MAHARSHTRA'
Age	Number	8,2	Greater than 17

The screenshot shows the Oracle Live SQL - SQL Worksheet interface. The SQL code entered is:

```

1 create table client_dhaval(Client_no char(6) primary key,Name varchar(20) not null,Phone int unique,
2 City varchar(15) check(City IN ('Mumbai','Pune','Delhi','Nashik')),Pincode number(6),Gender varchar(1)
3 check (Gender='F' or Gender='M'),State varchar(20) default 'MAHARASHTRA',Age decimal(8,2) check(Age>17));
4 desc client_dhaval;

```

The output shows the table created and its structure:

Column	Null?	Type
CLIENT_NO	NOT NULL	CHAR(6)
NAME	NOT NULL	VARCHAR2(20)
PHONE	-	NUMBER
CITY	-	VARCHAR2(15)
PINCODE	-	NUMBER(6,0)
GENDER	-	VARCHAR2(1)
STATE	-	VARCHAR2(20)
AGE	-	NUMBER(8,2)

Download CSV
8 rows selected.

B) INSERT 10 MEANINGFUL RECORDS IN ABOVE TABLE.

```

2 City varchar(15) check(City IN ('Mumbai','Pune','Delhi','Nashik')),Pincode number(6),Gender varchar(1)
3 check (Gender='F' or Gender='M'),State varchar(20) default 'MAHARASHTRA',Age decimal(8,2) check(Age>17));
4 desc client_dhaval;
5 insert into client_dhaval VALUES(01,'Mihir',8574515632,'Nashik',400098,'M','MAHARASHTRA',20);
6 insert into client_dhaval VALUES(02,'Dhaval',8454937135,'Mumbai',400067,'M','MAHARASHTRA',20);
7 insert into client_dhaval VALUES(03,'Starc',7484596100,'Mumbai',400068,'M','MAHARASHTRA',20);
8 insert into client_dhaval VALUES(04,'Kajal',9988525216,'Pune',400066,'F','MAHARASHTRA',18);
9 insert into client_dhaval VALUES(05,'Virat',7898881415,'Delhi',400095,'M','MAHARASHTRA',19);
10 insert into client_dhaval VALUES(06,'Dhoni',7272636319,'Pune',400085,'M','MAHARASHTRA',18);
11 insert into client_dhaval VALUES(07,'Rohit',8484545416,'Nashik',400092,'M','MAHARASHTRA',22);
12 insert into client_dhaval VALUES(08,'Pooja',8108130850,'Delhi',400094,'F','MAHARASHTRA',19);
13 insert into client_dhaval VALUES(09,'Ayesha',9491939290,'Mumbai',400077,'F','MAHARASHTRA',21);
14 insert into client_dhaval VALUES(10,'Ayushi',6363937812,'Mumbai',400048,'F','MAHARASHTRA',19);

```

C) ANSWER FOLLOWING QUERIES.

1. Display the details of all the clients.

```

10 insert into client_dhaval VALUES(06,'Dhoni',7272636319,'Pune',400085,'M','MAHARASHTRA',18);
11 insert into client_dhaval VALUES(07,'Rohit',8484545416,'Nashik',400092,'M','MAHARASHTRA',22);
12 insert into client_dhaval VALUES(08,'Pooja',8108130850,'Delhi',400094,'F','MAHARASHTRA',19);
13 insert into client_dhaval VALUES(09,'Ayesha',9491939290,'Mumbai',400077,'F','MAHARASHTRA',21);
14 insert into client_dhaval VALUES(10,'Ayushi',6363937812,'Mumbai',400048,'F','MAHARASHTRA',19);
15 select * from client_dhaval;

```

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
1	Mihir	8574515632	Nashik	400098	M	MAHARASHTRA	20
2	Dhaval	8454937135	Mumbai	400067	M	MAHARASHTRA	20
3	Starc	7484596100	Mumbai	400068	M	MAHARASHTRA	20
4	Kajal	9988525216	Pune	400066	F	MAHARASHTRA	18
5	Virat	7898881415	Delhi	400095	M	MAHARASHTRA	19
6	Dhoni	7272636319	Pune	400085	M	MAHARASHTRA	18
7	Rohit	8484545416	Nashik	400092	M	MAHARASHTRA	22
8	Pooja	8108130850	Delhi	400094	F	MAHARASHTRA	19
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21
10	Ayushi	6363937812	Mumbai	400048	F	MAHARASHTRA	19

Download CSV
10 rows selected.

2. Display the total number of clients whose age is in the range of 18 and 29.

16 `select * from client_dhaval where Age between 18 and 29;`

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
1	Mihir	8574515632	Nashik	400098	M	MAHARASHTRA	20
2	Dhaval	8454937135	Mumbai	400067	M	MAHARASHTRA	20
3	Starc	7484596100	Mumbai	400068	M	MAHARASHTRA	20
4	Kajal	9988525216	Pune	400066	F	MAHARASHTRA	18
5	Virat	7898881415	Delhi	400095	M	MAHARASHTRA	19
6	Dhoni	7272636319	Pune	400085	M	MAHARASHTRA	18
7	Rohit	8484545416	Nashik	400092	M	MAHARASHTRA	22
8	Pooja	8108130850	Delhi	400094	F	MAHARASHTRA	19
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21
10	Ayushi	6363937812	Mumbai	400048	F	MAHARASHTRA	19

[Download CSV](#)
10 rows selected.

3. Display the total number of clients according to cities.

17 `select * from client_dhaval order by City;`

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
5	Virat	7898881415	Delhi	400095	M	MAHARASHTRA	19
8	Pooja	8108130850	Delhi	400094	F	MAHARASHTRA	19
3	Starc	7484596100	Mumbai	400068	M	MAHARASHTRA	20
10	Ayushi	6363937812	Mumbai	400048	F	MAHARASHTRA	19
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21
2	Dhaval	8454937135	Mumbai	400067	M	MAHARASHTRA	20
7	Rohit	8484545416	Nashik	400092	M	MAHARASHTRA	22
1	Mihir	8574515632	Nashik	400098	M	MAHARASHTRA	20
4	Kajal	9988525216	Pune	400066	F	MAHARASHTRA	18
6	Dhoni	7272636319	Pune	400085	M	MAHARASHTRA	18

[Download CSV](#)
10 rows selected.

4. Display the details of the clients who resides in Mumbai.

```
18 select * from client_dhaval where City='Mumbai';
```

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
2	Dhaval	8454937135	Mumbai	400067	M	MAHARASHTRA	20
3	Starc	7484596100	Mumbai	400068	M	MAHARASHTRA	20
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21
10	Ayushi	6363937812	Mumbai	400048	F	MAHARASHTRA	19

[Download CSV](#)
4 rows selected.

5. Display the details of the client whose name ends with A.

```
19 select * from client_dhaval where Name like '%a';
```

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
8	Pooja	8108130850	Delhi	400094	F	MAHARASHTRA	19
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21

[Download CSV](#)
2 rows selected.

6. Display the unique client names of the client.

```
20 select distinct Name from client_dhaval;
```

NAME
Dhaval
Mihir
Kajal
Ayesha
Rohit
Ayushi
Starc
Dhoni
Pooja
Virat

[Download CSV](#)
10 rows selected.

7. Display the details of the client with missing phone no.

```
21 select * from client_dhaval where Phone is null;
```

no data found

8. Display the details of the client in ascending order of their names.

```
22 select * from client_dhaval order by Name Asc;
```

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21
10	Ayushi	6363937812	Mumbai	400048	F	MAHARASHTRA	19
2	Dhaval	8454937135	Mumbai	400067	M	MAHARASHTRA	20
6	Dhoni	7272636319	Pune	400085	M	MAHARASHTRA	18
4	Kajal	9988525216	Pune	400066	F	MAHARASHTRA	18
1	Mihir	8574515632	Nashik	400098	M	MAHARASHTRA	20
8	Pooja	8108130850	Delhi	400094	F	MAHARASHTRA	19
7	Rohit	8484545416	Nashik	400092	M	MAHARASHTRA	22
3	Starc	7484596100	Mumbai	400068	M	MAHARASHTRA	20
5	Virat	7898881415	Delhi	400095	M	MAHARASHTRA	19

[Download CSV](#)
10 rows selected.

9. Display the total number of female clients.

```
23 select count(Gender) from client_dhaval where Gender='F';
```

```
24
```

COUNT(GENDER)

4

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10. Display the details of the client whose age is greater than 25 and are female.

```
24 select * from client_dhaval where Age>25 and Gender='F';
25
26
```

no data found

11. Update the age of client to 22 whose age is 18.

```
24 select * from client_dhaval where Age>25 and Gender='F';
25 update client_dhaval set Age=22 where Age=18;
26 select * from client_dhaval;
```

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
1	Mihir	8574515632	Nashik	400098	M	MAHARASHTRA	20
2	Dhaval	8454937135	Mumbai	400067	M	MAHARASHTRA	20
3	Starc	7484596100	Mumbai	400068	M	MAHARASHTRA	20
4	Kajal	9988525216	Pune	400066	F	MAHARASHTRA	22
5	Virat	7898881415	Delhi	400095	M	MAHARASHTRA	19
6	Dhoni	7272636319	Pune	400085	M	MAHARASHTRA	22
7	Rohit	8484545416	Nashik	400092	M	MAHARASHTRA	22
8	Pooja	8108130850	Delhi	400094	F	MAHARASHTRA	19
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21
10	Ayushi	6363937812	Mumbai	400048	F	MAHARASHTRA	19

[Download CSV](#)
10 rows selected.

12. Update the gender to F who reside in Pune.

```

27 update client_dhaval set Gender='F' where City='Pune';
28 select * from client_dhaval;
29

```

2 row(s) updated.

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
1	Mihir	8574515632	Nashik	400098	M	MAHARASHTRA	20
2	Dhaval	8454937135	Mumbai	400067	M	MAHARASHTRA	20
3	StarC	7484596100	Mumbai	400068	M	MAHARASHTRA	20
4	Kajal	9988525216	Pune	400066	F	MAHARASHTRA	22
5	Virat	7898881415	Delhi	400095	M	MAHARASHTRA	19
6	Dhoni	7272636319	Pune	400085	F	MAHARASHTRA	22
7	Rohit	8484545416	Nashik	400092	M	MAHARASHTRA	22
8	Pooja	8108130850	Delhi	400094	F	MAHARASHTRA	19
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21
10	Ayushi	6363937812	Mumbai	400048	F	MAHARASHTRA	19

[Download CSV](#)
10 rows selected.

13. Delete the records of the client who are located in Delhi.

```

28 select * from client_dhaval;
29 delete from client_dhaval where City='Delhi';
30 select * from client_dhaval;

```

2 row(s) deleted.

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
1	Mihir	8574515632	Nashik	400098	M	MAHARASHTRA	20
2	Dhaval	8454937135	Mumbai	400067	M	MAHARASHTRA	20
3	StarC	7484596100	Mumbai	400068	M	MAHARASHTRA	20
4	Kajal	9988525216	Pune	400066	F	MAHARASHTRA	22
6	Dhoni	7272636319	Pune	400085	F	MAHARASHTRA	22
7	Rohit	8484545416	Nashik	400092	M	MAHARASHTRA	22
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21
10	Ayushi	6363937812	Mumbai	400048	F	MAHARASHTRA	19

[Download CSV](#)
8 rows selected.

14. Delete the records of client having L in their names.

```
30 select * from client_dhaval;
31 delete from client_dhaval where Name like '%l%';
32 select * from client_dhaval;
```

2 row(s) deleted.

CLIENT_NO	NAME	PHONE	CITY	PINCODE	GENDER	STATE	AGE
1	Mihir	8574515632	Nashik	400098	M	MAHARASHTRA	20
3	Starc	7484596100	Mumbai	400068	M	MAHARASHTRA	20
6	Dhoni	7272636319	Pune	400085	F	MAHARASHTRA	22
7	Rohit	8484545416	Nashik	400092	M	MAHARASHTRA	22
9	Ayesha	9491939290	Mumbai	400077	F	MAHARASHTRA	21
10	Ayushi	6363937812	Mumbai	400048	F	MAHARASHTRA	19

[Download CSV](#)
6 rows selected.

15. Delete all the records from the table.

```
33 delete from client_dhaval where City='Mumbai' or City='Pune' or City='Nashik';
34 select * from client_dhaval;
```

6 row(s) deleted.

no data found