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Exercise – 1

1. Create the table described below:

Table Name: Employee Column Name Data Type Employeeno Varchar2(6) Name Varchar2(20) Address Varchar2(30) City Varchar2(10) Pincode Number(8) State Varchar2(15)

```
SQL> create table Employee(Employeeno Varchar2(6), Name Varchar2(20), Address Varchar2(10), City Varchar2(10), Pincode Number(8), State Varchar2(15));
Table created.

SQL> desc employee
Name Null? Type

EMPLOYEENO VARCHAR2(6)
NAME VARCHAR2(20)
ADDRESS VARCHAR2(10)
PINCODE NUMBER(8)
STATE VARCHAR2(15)

SQL>
```

2. Insert the following data into the table

Employeeno Name Address City Pincode State
E00001 Bobby B/16, Butterfly Garden Chennai 400125 Tamilnadu
E00002 Jaya 444, Juhu Mumbai 890012 Maharashtra
E00003 Vasavi 58K, Tilak Nagar Banagalore 988233 Karnataka
E00004 Sanjay 89G, North Street Almora 895623 Uttrakhand
E00005 Sarita D/57, Rose Garden Chennai 400125 tamilnadu
E00006 Divya 897, Aanand Bihar Mumbai 890012 Maharashtra

```
SQL Pius SQL Pius ('&EMPLOYEENO', '&NAME', '&ADDRESS', '&CITY', &PINCODE, '&STATE'); Enter value for employeeno: E0001 [inter value for employeeno: E0001 [inter value for admess: B/16, Butterfly Garden [inter value for admess: B/16, Butterfly Garden [inter value for active chemnal [inter value for city: Chemnal [inter value for chemployee values ('E0001', 'Bobby', 'B/16, Butterfly Garden', 'Chennal', 400125, 'Tamilnadu') [inter value for employee values ('E0001', 'Bobby', 'B/16, Butterfly Garden', 'Chennal', 400125, 'Tamilnadu') [inter value for employee values ('E0002', 'Bobby', 'B/16, Butterfly Garden', 'Chennal', 400125, 'Tamilnadu') [intervalue for employee values ('E0002', 'Bobby', 'B/16, Butterfly Garden', 'Chennal', 400125, 'Tamilnadu') [intervalue for employee values ('E0002', 'Bobby', 'B/16, Butterfly Garden', 'Chennal', 400125, 'Tamilnadu') [intervalue for employee values ('E0002', 'Bobby', 'B/16, Butterfly Garden', 'Gobby', '
```

3. Retrieving records from a table

(a) Find out the names of all employees.

```
SQL> select name from employee;

NAME
Bobby
Jaya
Vasavi
Sanjay
Sarita
Divya
6 rows selected.
```

(b) Retrieve the entire contents of the employee table.

·		· ·		
5QL> 50	elect * from employee;			
EMPLOY STATE	NAME	ADDRESS		PINCODE
E0001 Tamilna		B/16, Butterfly Garden	Chennai	400125
E0002 Maharas		444, Juhu	Mumbai	8900012
E0003 Karnata	Vasavi aka	58K,Tilak Nagar	Bangalore	988233
EMPLOY STATE	NAME	ADDRESS	CITY	PINCODE
	Sanjay khand	89G, North Street	Almora	895623
E0005 Tamilna		D/57, Rose Garden	Chennai	400125
E0006 Maharas		897, Aanand Bihar	Mumbai	890012

(c) List all the employees who are residing at Chennai.

```
SQL Plus
SQL> select * from employee where city = 'Chennai';
EMPLOY NAME
                           ADDRESS
                                                          CITY
                                                                         PINCODE
STATE
E0001 Bobby
                           B/16, Butterfly Garden
                                                          Chennai
                                                                         400125
Tamilnadu
E0005 Sarita
                           D/57, Rose Garden
                                                           Chennai
                                                                         400125
Tamilnadu
```

(d) Retrieve the list of address, city and state of all the employees.



4. Updating records in a table

(a) Change the state of 'Divya' 'Maharashtra' to 'Kerala'.

```
SQL> update employee set state = 'Kerala' where name = 'Divya';

1 row updated.

SQL> select * from employee where name = 'Divya';

EMPLOY NAME ADDRESS CITY PINCODE

STATE

E0006 Divya 897, Aanand Bihar Mumbai 890012

Kerala
```

(b) Change the city of employeeno 'E00002' to 'Chennai'.

```
SQL> update employee set City = 'Chennai' where employeeno = 'E0002';

1 row updated.

SQL> select City from employee where employeeno = 'E0002';

CITY

Chennai
```

5. Deleting records in a table

(a) Delete from employee where the column city holds the value 'Almora'.

```
SQL> delete from employee where city = 'Almora';
1 row deleted.
SQL> select * from employee;
EMPLOY NAME ADDRESS
                                                CITY PINCODE
STATE
E0001 Bobby
                      B/16, Butterfly Garden Chennai
                                                             400125
Tamilnadu
E0002 Jaya
                      444, Juhu
                                                  Chennai
                                                            8900012
Maharastra
E0003 Vasavi
                       58K,Tilak Nagar
                                                  Bangalore
                                                              988233
Karnataka
```

(b) Delete all employees from employee table where employeeno is equal to E00005.

```
SQL> delete from employee where employeeno = 'E0005';

1 row deleted.
```

6. Altering the table structure

(a) Add a column call phonenumber of data type number 10 to the employee.

```
SQL> alter table employee add cell_phone_number Number(10);
Table altered.
SQL> desc employee;
                                           Null? Type
Name
                                                    VARCHAR2(6)
EMPLOYEENO
                                                    VARCHAR2(20)
NAME
ADDRESS
                                                    VARCHAR2(30)
CITY
                                                    VARCHAR2(10)
PINCODE
                                                    NUMBER(8)
                                                    VARCHAR2(15)
STATE
                                                    NUMBER(10)
CELL_PHONE_NUMBER
```

(b) Change the size of city column in employee to 13.

```
SQL> alter table employee modify City Varchar2(13);
Table altered.
SQL> desc employee;
                                           Null?
EMPLOYEENO
                                                    VARCHAR2(6)
NAME
                                                    VARCHAR2(20)
ADDRESS
                                                    VARCHAR2(30)
                                                    VARCHAR2(13)
CITY
PINCODE
                                                    NUMBER(8)
                                                    VARCHAR2(15)
STATE
CELL_PHONE_NUMBER
                                                    NUMBER(10)
```

(c) Change the name of the column phonenumber to contactnumber in employee.

```
SQL> alter table employee rename column cell_phone_number to contact_number;
Table altered.
SQL> desc employee;
Name
                                           Null?
                                                   Type
EMPLOYEENO
                                                    VARCHAR2(6)
NAME
                                                    VARCHAR2(20)
ADDRESS
                                                    VARCHAR2(30)
CITY
                                                    VARCHAR2(13)
PINCODE
                                                    NUMBER(8)
                                                    VARCHAR2(15)
STATE
                                                    NUMBER(10)
CONTACT_NUMBER
```

(d) Drop the column pincodes.

```
SQL> alter table employee drop column pincode;
Table altered.
SQL> desc employee;
Name
                                           Null?
                                                     Type
EMPLOYEENO
                                                     VARCHAR2(6)
NAME
                                                     VARCHAR2(20)
ADDRESS
                                                     VARCHAR2(30)
                                                     VARCHAR2(13)
CITY
STATE
                                                     VARCHAR2(15)
CONTACT_NUMBER
                                                     NUMBER(10)
```

(e) Drop the table employee along with its data.

