

DATABASE SYSTEMS

Lab Digital Assignment-1

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Course Code: BCSE302P

1. Create a table of your own with minimum 7 attributes (Table name should be your register number)

```
SQL> create table bce3466(emp_id number(5), f_name varchar(20), l_name varchar(20), dept_id number(4), dept_name varchar(25), salary number(10), bdate date);

Table created.

SQL> desc bce3466;
Name                                     Null?      Type
-----
EMP_ID                                  NUMBER(5)
F_NAME                                 VARCHAR2(20)
L_NAME                                 VARCHAR2(20)
DEPT_ID                                NUMBER(4)
DEPT_NAME                              VARCHAR2(25)
SALARY                                 NUMBER(10)
BDATE                                  DATE

SQL>
```

2. Alter data type of a column.

```
SQL> alter table bce3466 modify dept_name char(20);

Table altered.

SQL> desc bce3466;
Name                                     Null?      Type
-----
EMP_ID                                  NUMBER(5)
F_NAME                                 VARCHAR2(20)
L_NAME                                 VARCHAR2(20)
DEPT_ID                                NUMBER(4)
DEPT_NAME                              CHAR(20)
SALARY                                 NUMBER(10)
BDATE                                  DATE

SQL>
```

3. Rename a column

```
SQL> alter table bce3466 rename column dept_id to deptno;

Table altered.

SQL> desc bce3466;
Name                                     Null?      Type
-----
EMP_ID                                  NUMBER(5)
F_NAME                                 VARCHAR2(20)
L_NAME                                 VARCHAR2(20)
DEPTNO                                 NUMBER(4)
DEPT_NAME                              CHAR(20)
SALARY                                 NUMBER(10)
BDATE                                  DATE

SQL>
```

4. Drop a column

```
SQL> alter table bce3466 drop column bdate;
```

Table altered.

```
SQL> desc bce3466;
```

Name	Null?	Type
EMP_ID		NUMBER(5)
F_NAME		VARCHAR2(20)
L_NAME		VARCHAR2(20)
DEPTNO		NUMBER(4)
DEPT_NAME		CHAR(20)
SALARY		NUMBER(10)

5. Increase column size

```
SQL> alter table bce3466 modify emp_id number(7);
```

Table altered.

```
SQL> desc bce3466;
```

Name	Null?	Type
EMP_ID		NUMBER(7)
F_NAME		VARCHAR2(20)
L_NAME		VARCHAR2(20)
DEPTNO		NUMBER(4)
DEPT_NAME		CHAR(20)
SALARY		NUMBER(10)

6. Rename a table (include db at the end of your register number)

```
SQL> rename bce3466 to bce3466db;
```

Table renamed.

7. Insert Values in a table (minimum 10 rows)

```
SQL> insert into bce3466db values(&emp_id,&'f_name',&'l_name',&deptno,&'dept_name',&salary);
```

Enter value for emp_id: 2031

Enter value for f_name: Soumya

Enter value for l_name: Mishra

Enter value for deptno: 101

Enter value for dept_name: Accounts

Enter value for salary: 12000

old 1: insert into bce3466db values(&emp_id,&'f_name',&'l_name',&deptno,&'dept_name',&salary)

new 1: insert into bce3466db values(2031,'Soumya','Mishra',101,'Accounts',12000)

1 row created.

8. Update values in table

```
SQL> update bce3466db set salary=14000 where deptno= 102;

2 rows updated.

SQL> select* from bce3466db;
```

DEPT_NAME	EMP_ID	F_NAME	L_NAME	DEPTNO	SALARY
Accounts	2031	Soumya	Mishra	101	12000
Design	3420	Aditya	Tyagi	103	15000
Marketing	2793	Praneesh	Sunder	102	14000

9. Delete values in a table

```
SQL> delete from bce3466db where f_name='Diana';

1 row deleted.
```

10.Retrieve all rows

DEPT_NAME	EMP_ID	F_NAME	L_NAME	DEPTNO	SALARY
Accounts	2031	Soumya	Mishra	101	12000
Design	3420	Aditya	Tyagi	103	15000
Marketing	2793	Praneesh	Sunder	102	13500

DEPT_NAME	EMP_ID	F_NAME	L_NAME	DEPTNO	SALARY
Design	3201	Claire	Sebastian	103	14000
Accounts	2954	Manish	Malhotra	101	13000
Research	3003	Amina	Faizan	104	21000

DEPT_NAME	EMP_ID	F_NAME	L_NAME	DEPTNO	SALARY
Accounts	2980	Samiya	Murtaza	101	12500
Research	3478	Shaurya	Shah	104	20000
Marketing	3120	Hema	Manikandan	102	14000

DEPT_NAME	EMP_ID	F_NAME	L_NAME	DEPTNO	SALARY
Accounts	3340	Diana	Dsouza	101	13500

10 rows selected.

11.Retrieve certain columns

```
SQL> select emp_id, f_name, salary from bce3466db;
```

EMP_ID	F_NAME	SALARY
2031	Soumya	12000
3420	Aditya	15000
2793	Praneesh	14000
3201	Claire	14000
2954	Manish	13000
3003	Amina	21000
2980	Samiya	12500
3478	Shaurya	20000
3120	Hema	14000

9 rows selected.

12.Retrieve certain rows

```
SQL> select * from bce3466db where salary>15000;
```

EMP_ID	F_NAME	L_NAME	DEPTNO
3003	Amina	Faizan	104
3478	Shaurya	Shah	104

13.Create a copy of a table

```
SQL> create table copy1 as select * from bce3466db;
```

Table created.

```
SQL> desc copy1;
```

Name	Null?	Type
EMP_ID		NUMBER(7)
F_NAME		VARCHAR2(20)
L_NAME		VARCHAR2(20)
DEPTNO		NUMBER(4)
DEPT_NAME		CHAR(20)
SALARY		NUMBER(10)

14.Truncate values of the copied table

```
SQL> truncate table copy1;
```

Table truncated.

```
SQL> select * from copy1;
```

no rows selected

15. Drop the copy table

```
SQL> drop table copy1;
```

Table dropped.

```
SQL> select * from copy1;
```

select * from copy1
*

ERROR at line 1:
ORA-00942: table or view does not exist