

## ASSIGNMENT-5

### 1. Questions:

i. Creating a table STUDENT with following information: Name of table: STUDENT, columns and data types: rollno number(6), name varchar(20), branch varchar(20);

#### Query:

```
create table Student (  
rollno number(6),  
name varchar(20),  
branch varchar(20)  
);
```

#### Output:

```
Table created.
```

ii. Inserting data into the student table

#### Query:

```
insert into Student(rollno, name, branch)values(40,'Raj','CSE');  
insert into Student(rollno, name, branch)values(50,'Ram','IT');  
insert into Student(rollno, name, branch)values(60,'Rahul','CSE');  
insert into Student(rollno, name, branch)values(10,'Joe','EEE');  
insert into Student(rollno, name, branch)values(20,'Joy','ECE');
```

#### Output:

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

iii. Altering table by adding new column class varchar(20)

#### Query:

```
alter table student  
add class varchar2(20)
```

#### Output:

```
Table altered.
```

iv. Deleting a row from the table

**Query:**

delete from student where rollno = 10

**Output:**

```
1 row(s) deleted.
```

v. Drop column branch

**Query:**

alter table student  
drop column branch

**Output:**

```
Table altered.
```

vi. Alter table by changing the data type of rollno to number(8).

**Query:**

alter table student  
modify rollno number(8)

**Output:**

```
Table altered.
```

vii. Delete all the data from student table.

**Query:**

delete from student where rollno=50;  
delete from student where rollno=40;  
delete from student where rollno=60;  
delete from student where rollno=20;

**Output:**

```
1 row(s) deleted.
```

```
1 row(s) deleted.
```

```
1 row(s) deleted.
```

```
1 row(s) deleted.
```

viii. Delete the table.

**Query:**

drop table student

**Output:**

Table dropped.

**2. Create a table Employee and Dept with the following entries. Consider EmpNo and DeptNo as Primary Key respectively and none of the fields allows null entries.**

EmpNo	EmpName	EmpDept	EmpSal	EmpDoj	EmpBranch
E001	Amit	Production	4000	12-Mar-00	Delhi
E002	Biplab	HR	5000	03-Jul-02	Mumbai
E003	Chandan	IT	8000	11-Jan-01	Bangalore
E004	Dipak	HR	5500	01-Aug-01	Bangalore
E005	Gautam	IT	10000	05-Sep-06	Kolkata
E006	Gargi	Management	7000	15-Apr-04	Delhi

DeptNo	DeptName	EmpStrength
10	HR	20
20	IT	30
30	Production	100
40	Management	20

i. Display the records of **emp** table.

**Query:**

insert into employee(EmpNo,EmpName,EmpDept,EmpSal,EmpDoj,EmpBranch) values ('E001','Amit','Production',4000,'12-Mar-00','Delhi');

insert into employee(EmpNo,EmpName,EmpDept,EmpSal,EmpDoj,EmpBranch) values ('E002','Biplab','HR',5000,'12-Mar-00','Mumbai');

insert into employee(EmpNo,EmpName,EmpDept,EmpSal,EmpDoj,EmpBranch) values ('E003','Chandan','IT',8000,'12-Mar-00','Bangalore');

insert into employee(EmpNo,EmpName,EmpDept,EmpSal,EmpDoj,EmpBranch) values ('E004','Dipak','HR',5500,'12-Mar-00','Bangalore');

insert into employee(EmpNo,EmpName,EmpDept,EmpSal,EmpDoj,EmpBranch) values ('E005','Gautam','IT',10000,'12-Mar-00','Kolkata');

insert into employee(EmpNo,EmpName,EmpDept,EmpSal,EmpDoj,EmpBranch) values ('E006','Gargi','Management',7000,'12-Mar-00','Delhi');

select \* from Employee

**Output:**

EMPNO	EMPNAME	EMPDEPT	EMPSAL	EMPDOJ	EMPBRANCH
E001	Amit	Production	4000	12-Mar-00	Delhi
E002	Biplab	HR	5000	12-Mar-00	Mumbai
E003	Chandan	IT	8000	12-Mar-00	Bangalore
E004	Dipak	HR	5500	12-Mar-00	Bangalore
E005	Gautam	IT	10000	12-Mar-00	Kolkata
E006	Gargi	Management	7000	12-Mar-00	Delhi

ii. Display the records of **dept** table.

**Query:**

```
insert into dept(DeptNo,DeptName,EmpStrength) values (10,'HR','20');
insert into dept(DeptNo,DeptName,EmpStrength) values (20,'Production','30');
insert into dept(DeptNo,DeptName,EmpStrength) values (30,'IT','100');
insert into dept(DeptNo,DeptName,EmpStrength) values (40,'Management','20');
select * from dept
```

**Output:**

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

DEPTNO	DEPTNAME	EMPSTRENGTH
10	HR	20
20	Production	30
30	IT	100
40	Management	20

iii. Display the records of **emp** table who are working in department 20.

**Query:**

```
select * from emp where DeptNo = 20
```

**Output:**

DEPTNO	DEPTNAME	EMPSTRENGTH
20	Production	30

iv. Display the records of **emp** table in descending order of the salary.

**Query:**

select \* from employee order by EmpSal desc

**Output:**

EMPNO	EMPNAME	EMPDEPT	EMPSAL	EMPD0J	EMPBRANCH
E005	Gautam	IT	10000	12-Mar-00	Kolkata
E003	Chandan	IT	8000	12-Mar-00	Bangalore
E006	Gargi	Management	7000	12-Mar-00	Delhi
E004	Dipak	HR	5500	12-Mar-00	Bangalore
E002	Biplab	HR	5000	12-Mar-00	Mumbai
E001	Amit	Production	4000	12-Mar-00	Delhi

v. Display the Date of joining of the employee whose salary is greater than 5000.

**Query:**

select EmpD0j from employee where EmpSal>5000

**Output:**

EMPD0J
12-Mar-00
12-Mar-00
12-Mar-00
12-Mar-00

vi. Display the EmpStrength of the dept where employee id E005 works.

**Query:**

select dept.EmpStrength from dept,Employee

where dept.DeptName=Employee.EmpDept AND Employee.EmpNo='E005';

**Output:**

EMPSTRENGTH
30