

LAB 2**Lab Exercises:**

Q1).

```
CREATE TABLE EMPLOYEE(  
    EmpNo number(5) NOT NULL,  
    EmpName varchar2(20) NOT NULL,  
    Gender varchar2(1) NOT NULL,  
    Salary number(5) NOT NULL,  
    Address varchar2(20) NOT NULL,  
    DNo number(5) NOT NULL,  
    primary key (EmpNo),  
    CHECK (Gender in ('M','F'))  
);
```

Q2).

```
CREATE TABLE DEPARTMENT(  
    DeptNo number(5),  
    DeptName varchar2(20) UNIQUE,  
    Location varchar2(20),  
    primary key (DeptNo)  
);
```

Q3).

```
ALTER TABLE EMPLOYEE ADD CONSTRAINT fk_Dno foreign key(DNo) references  
DEPARTMENT(DeptNo);
```

Q4).

```
INSERT INTO DEPARTMENT VALUES(1,'CSE', 'AB5');  
INSERT INTO DEPARTMENT VALUES(2, 'ECE', 'AB1');  
INSERT INTO EMPLOYEE VALUES(1, 'SRISAI', 'M', 10000, 'HYDERABAD',1);  
INSERT INTO EMPLOYEE VALUES(2, 'DANISH', 'F', 10000, 'MUMBAI',1);  
INSERT INTO EMPLOYEE VALUES(3, 'TOFIK', 'M', 10000, 'KOLKATA',2);
```

INSERT INTO EMPLOYEE VALUES(4, 'RAHUL', 'M', 10000, 'DELHI',2);

Q5).

INSERT INTO EMPLOYEE VALUES(5, 'AKASH','T',10000, 'HOWRAH');

INSERT INTO DEPARTMENT VALUES (2, 'CCE', 'AB1');

Q6).

DELETE FROM DEPARTMENT WHERE DeptNo = 2;

Q7).

ALTER TABLE EMPLOYEE DROP CONSTRAINT fk_Dno;

ALTER TABLE EMPLOYEE ADD CONSTRAINT fk_Dno foreign key(DNo) references
DEPARTMENT(DeptNo) ON DELETE CASCADE;

Q8).

ALTER TABLE EMPLOYEE MODIFY Salary DEFAULT 10000;

Q9).

SELECT name, dept_name FROM student;

Q10).

SELECT * FROM instructor WHERE dept_name='CSE';

Q11).

SELECT title FROM Course WHERE credits = 3 AND dept_name='CSE';

Q12).

SELECT course_id, title FROM Takes NATURAL JOIN Course WHERE ID = 12345;

Q13).

SELECT * FROM Instructor WHERE salary BETWEEN 40000 AND 90000;

Q14).

SELECT * FROM Instructor WHERE ID NOT IN (SELECT DISTINCT id FROM
Teaches);

Q15).

Select name, title, takes.year FROM student, section, course, takes WHERE course.course_id
= section.course_id and course.course_id = takes.course_id and takes.id = student.id and
takes.year = section.year and takes.sec_id = section.sec_id and section.semester =
takes.semester and classroom.room_number='303';

Q16).

SELECT name,course_id,title AS c_name FROM (((student NATURAL JOIN takes)
NATURAL JOIN course) NATURAL JOIN student) where year=2015;

Q17).

```
SELECT name, salary FROM Instructor where salary > ANY(SELECT salary as inst_salary  
FROM Instructor WHERE dept_name='CSE');
```

Q18).

```
SELECT name FROM Instructor WHERE dept_name LIKE '%ch%';
```

Q19).

```
SELECT name, LENGTH(name) FROM Student;
```

Q20).

```
SELECT dept_name, SUBSTR(dept_name, 3, 3) FROM Department;
```

Q21).

```
SELECT UPPER(name) FROM Instructor;
```

Q22).

```
SELECT NVL(tot_cred, 100) FROM Student;
```

Q23).

```
SELECT salary, ROUND(salary/3, -2) FROM Instructor;
```

Q24).

```
SELECT EMPNAME, to_char(DOB,'DD-MON-YYYY') FROM EMPLOYEE;
```

```
SELECT EMPNAME, to_char(DOB,'DD-MON-YY') FROM EMPLOYEE;
```

```
SELECT EMPNAME, to_char(DOB,'DD-MM-YY') FROM EMPLOYEE;
```

Q25).

```
SELECT EMPNAME, to_char(DOB, 'YYYY') FROM EMPLOYEE;
```

Q26).

```
SELECT EMPNAME, to_char(DOB, 'DAY') FROM EMPLOYEE;
```