# LAB 2 :

1).

```
CREATE TABLE employee(
emp_no number(5) NOT NULL,
emp_name 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 (emp_no),
CHECK (gender in ('M','F'))
);
```

Q2).

```
CREATE TABLE department(
dept_no number(5),
dept_name varchar2(20) UNIQUE,
location varchar2(20),
primary key (dept_no)
);
```

Q3).

```
ALTER TABLE employee ADD CONSTRAINT fk_Dno foreign key(dno) references
department(dept_no);
```

Q4).

```
INSERT INTO department VALUES(1,'CSE', 'AB5');
INSERT INTO department VALUES(2, 'ECE', 'AB1');
INSERT INTO employee VALUES(1, 'Tofik', 'M', 10000, 'LKO',1);
INSERT INTO employee VALUES(2, 'Danish', 'M', 10000, 'BIHAR',1);
INSERT INTO employee VALUES(3, 'Manoj', 'M', 10000, 'MANIPAL',2);
INSERT INTO employee VALUES(4, 'Ahad', 'M', 10000, 'MANIPAL',2);
```

Q5).

```
INSERT INTO employee VALUES(5, 'Kasim','M',10000, 'Delhi',2);
INSERT INTO department VALUES (3, 'CCE', 'AB1');
```

Q6).

```
DELETE FROM department WHERE dept_no = 2;
```

Q7).

```
ALTER TABLE employee DROP CONSTRAINT fk_Dno;
ALTER TABLE employee ADD CONSTRAINT fk_Dno foreign key(dno) references
department(dept_no) ON DELETE CASCADE;
```

Q8).

```
ALTER TABLE employee MODIFY salary DEFAULT 10000;
```

Q9).

```
SELECT name, dept_name FROM student;
```

Q10).

```
SELECT * FROM instructor;
```

Q11).

```
SELECT title FROM course WHERE credits = 3;
```

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
room_number=3128 and 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='Computer. Sci');
```

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 emp_name, to_char(DOB,'DD-MON-YYYY') FROM employee;
SELECT emp_name, to_char(DOB,'DD-MON-YY') FROM employee;
SELECT emp_name, to_char(DOB,'DD-MM-YY') FROM employee;
```

Q25).

```
SELECT emp_name, to_char(DOB) FROM employee;
```

Q26).

```
SELECT emp_name, to_char(DOB) FROM employee;
```