//Experiment-6

//creating employee table

CREATE TABLE Employee (

EMPNO VARCHAR(10) PRIMARY KEY,

EMP\_NAME VARCHAR(50),

DEPT VARCHAR(50),

SALARY INT,

DOJ DATE,

BRANCH VARCHAR(50)

);

//Inserting Sample Data

INSERT INTO Employee (EMPNO, EMP\_NAME, DEPT, SALARY, DOJ, BRANCH) VALUES

('E101', 'Amit', 'Production', 45000, '2000-03-12', 'Bangalore'),

('E102', 'Amit', 'HR', 70000, '2002-07-03', 'Bangalore'),

('E103', 'Sunita', 'Management', 120000, '2001-01-11', 'Mysore'),

('E105', 'Sunita', 'IT', 67000, '2001-08-01', 'Mysore'),

('E106', 'Mahesh', 'Civil', 145000, '2003-09-20', 'Mumbai');

//Queries

(a)

i)SELECT \* FROM Employee;

ii)SELECT EMPNO, SALARY FROM Employee;

iii)SELECT AVG(SALARY) FROM Employee;

iv)SELECT COUNT(\*) FROM Employee;

v)SELECT COUNT(DISTINCT EMP\_NAME) FROM Employee;

vi)SELECT EMP\_NAME, SUM(SALARY), COUNT(\*) FROM Employee GROUP BY EMP\_NAME;

vii)SELECT EMP\_NAME, SUM(SALARY) FROM Employee GROUP BY EMP\_NAME HAVING SUM(SALARY) > 120000;

viii)SELECT EMP\_NAME FROM Employee ORDER BY EMP\_NAME DESC;

ix)SELECT \* FROM Employee WHERE EMP\_NAME = 'Amit' AND SALARY > 50000;

(b)

i)

SELECT CURRENT\_DATE;

SELECT EXTRACT(YEAR FROM CURRENT\_DATE);

SELECT EXTRACT(DAY FROM CURRENT\_DATE);

SELECT EXTRACT(MONTH FROM CURRENT\_DATE);

ii)

SELECT ASCII('A');

SELECT UPPER('mallareddy university');

SELECT LOWER('WELCOME TO DBMSLAB');

SELECT REPLACE('HELLO', 'H', 'K');

SELECT TRIM('A' FROM 'ANACONDA');

(c)

//Creating Student and Fee Tables

CREATE TABLE Student (

admission\_no INT PRIMARY KEY,

first\_name VARCHAR(45),

last\_name VARCHAR(45),

age INT,

city VARCHAR(25)

);

CREATE TABLE Fee (

admission\_no INT,

course VARCHAR(45),

amount\_paid INT,

FOREIGN KEY (admission\_no) REFERENCES Student(admission\_no)

);

//Insert Data

INSERT INTO Student (admission\_no, first\_name, last\_name, age, city) VALUES

(3354, 'Luisa', 'Evans', 13, 'Texas'),

(2135, 'Paul', 'Ward', 15, 'Alaska'),

(4321, 'Peter', 'Bennett', 14, 'California');

INSERT INTO Fee (admission\_no, course, amount\_paid) VALUES

(3354, 'Java', 20000),

(4321, 'Python', 18000);

-- Join Queries

SELECT Student.admission\_no, Student.first\_name, Fee.course, Fee.amount\_paid

FROM Student INNER JOIN Fee ON Student.admission\_no = Fee.admission\_no;

SELECT Student.admission\_no, Student.first\_name, Fee.course, Fee.amount\_paid

FROM Student LEFT JOIN Fee ON Student.admission\_no = Fee.admission\_no;

SELECT Student.admission\_no, Student.first\_name, Fee.course, Fee.amount\_paid

FROM Student RIGHT JOIN Fee ON Student.admission\_no = Fee.admission\_no;

SELECT Student.admission\_no, Student.first\_name, Fee.course, Fee.amount\_paid

FROM Student FULL OUTER JOIN Fee ON Student.admission\_no = Fee.admission\_no;

Exercise:

//Employee Table

CREATE TABLE EMPLOYEE (

Emp\_no INT PRIMARY KEY,

E\_name VARCHAR(50),

E\_address VARCHAR(100),

E\_ph\_no VARCHAR(15),

Dept\_no INT,

Dept\_name VARCHAR(50),

Job\_id INT,

Designation VARCHAR(50),

Salary INT,

DOJ DATE

);

-- Queries on EMPLOYEE Table

1)SELECT Emp\_no, E\_name, Salary FROM EMPLOYEE WHERE Designation = 'MANAGER';

2)SELECT \* FROM EMPLOYEE WHERE Salary > (SELECT MAX(Salary) FROM EMPLOYEE WHERE Designation = 'IT PROFESSIONAL');

3)SELECT \* FROM EMPLOYEE WHERE YEAR(DOJ) > 1981 ORDER BY Designation ASC;

4)SELECT Emp\_no, E\_name, Salary, DATEDIFF(CURDATE(), DOJ) / 365 AS Experience\_Years, Salary / 365 AS Daily\_Salary FROM EMPLOYEE;

5)SELECT \* FROM EMPLOYEE WHERE Designation IN ('CLERK', 'ANALYST');