EXPERIMENT NO: 2
BASIC SQL COMMANDS

AIM:

To study the basic sql queries such as:
SELECT
INSERT
UPDATE
DELETE

QUESTIONS

Create a table named Employee and populate the table as shown below.

EMP_ID	EMP_NAME	DEPT	SALARY
1	MICHAEL	PRODUCTION	2500
2	JOE	PRODUCTION	2500
3	SMITH	SALES	2250
4	DAVID	MARKETING	2900
5	RICHARD	SALES	1600
6	JESSY	MARKETING	1800
7	JANE	SALES	2000
8	JANET	PRODUCTION	3000
9	NEVILLE	MARKETING	2750
10	RICHARDSON	SALES	1800

CREATE TABLE Employee (Emp_idint,Emp_namevarchar(15),Deptvarchar(10),Salary int)

INSERT INTO Employee values(1,'Michael','Production',2500)

INSERT INTO Employee values(2,'Joe','Production',2500)

INSERT INTO Employee values(3,'Smith','Sales',2250)

INSERT INTO Employee values(4,'David','Marketing',2900)

INSERT INTO Employee values(5,'Richard','Sales',1600)

INSERT INTO Employee values(6,'Jessy','Marketing',1800)

INSERT INTO Employee values(7,'Jane','Sales',2000)

```
INSERT INTO Employee values(8,'Janet','Production',3000)

INSERT INTO Employee values(9,'Neville','Marketing',2750)

INSERT INTO Employee values(10,'Richardson','Sales',1800)
```

1. Display the details of all the employees.

```
SELECT * FROM Employee
```

EMP_ID	EMP_NAME	DEPT	SALARY
1	MICHAEL	PRODUCTION	2500
2	JOE	PRODUCTION	2500
3	SMITH	SALES	2250
4	DAVID	MARKETING	2900
5	RICHARD	SALES	1600
6	JESSY	MARKETING	1800
7	JANE	SALES	2000
8	JANET	PRODUCTION	3000
9	NEVILLE	MARKETING	2750
10	RICHARDSON	SALES	1800

2. Display the names and id's of all employees.

```
SELECT Emp_id,Emp_name FROM Employee
```

EMP_ID	EMP_NAME
1	MICHAEL
2	JOE
3	SMITH
4	DAVID
5	RICHARD
6	JESSY
7	JANE
8	JANET
9	NEVILLE
10	RICHARDSON

3. Delete the entry corresponding to employee id:10.

```
DELETE FROM Employee WHERE Emp_id=10
```

EMP_ID	EMP_NAME	DEPT	SALARY
1	MICHAEL	PRODUCTION	2500
2	JOE	PRODUCTION	2500
3	SMITH	SALES	2250
4	DAVID	MARKETING	2900
5	RICHARD	SALES	1600
6	JESSY	MARKETING	1800
7	JANE	SALES	2000
8	JANET	PRODUCTION	3000
9	NEVILLE	MARKETING	2750

4. Insert a new tuple to the table. The salary field of the new employee should be kept NULL.

```
INSERT INTO Employee values(10,'Richardson','Sales',NULL)
```

EMP_ID	EMP_NAME	DEPT	SALARY
1	MICHAEL	PRODUCTION	2500
2	JOE	PRODUCTION	2500
3	SMITH	SALES	2250
4	DAVID	MARKETING	2900
5	RICHARD	SALES	1600
6	JESSY	MARKETING	1800
7	JANE	SALES	2000
8	JANET	PRODUCTION	3000
9	NEVILLE	MARKETING	2750
10	RICHARDSON	SALES	NULL

5. Find the details of all employees working in the marketing department.

```
SELECT * FROM Employee WHERE Dept='Marketing'
```

EMP_ID	EMP_NAME	DEPT	SALARY
4	DAVID	MARKETING	2900
6	JESSY	MARKETING	1800
9	NEVILLE	MARKETING	2750

6. Add the salary details of the newly added employee.

```
UPDATE Employee set Salary=1900 WHERE Emp_id=10

SELECT * FROM Employee
```

EMP_ID	EMP_NAME	DEPT	SALARY
1	MICHAEL	PRODUCTION	2500
2	JOE	PRODUCTION	2500
3	SMITH	SALES	2250
4	DAVID	MARKETING	2900
5	RICHARD	SALES	1600
6	JESSY	MARKETING	1800
7	JANE	SALES	2000
8	JANET	PRODUCTION	3000
9	NEVILLE	MARKETING	2750
10	RICHARDSON	SALES	1900

7. Update the salary of Richard to 1900$.

```
UPDATE Employee set Salary=1900 WHERE Emp_name='Richardson'

SELECT * FROM Employee
```

EMP_ID	EMP_NAME	DEPT	SALARY
1	MICHAEL	PRODUCTION	2500
2	JOE	PRODUCTION	2500
3	SMITH	SALES	2250
4	DAVID	MARKETING	2900
5	RICHARD	SALES	1900
6	JESSY	MARKETING	1800
7	JANE	SALES	2000
8	JANET	PRODUCTION	3000
9	NEVILLE	MARKETING	2750
10	RICHARDSON	SALES	1900

8. Find the details of all employees who working for marketing and has a salary greater than 2000$.

```
SELECT * FROM Employee WHERE Dept='Marketing' AND Salary>2000
```

EMP_ID	EMP_NAME	DEPT	SALARY
4	DAVID	MARKETING	2900
9	NEVILLE	MARKETING	2750

9. List the names of all employees working in sales department and marketing Department.

SELECT emp_name FROM Employee WHERE Dept='Marketing' OR Dept='Sales'

EMP_NAME
SMITH
DAVID
RICHARD
JESSY
JANE
NEVILLE
RICHARDSON

10. List the names and department of all employees whose salary is between2300$ and 3000$.

SELECT Emp_name,Dept FROM Employee WHERE Salary BETWEEN 2300 AND 3000

EMP_NAME	DEPT
MICHAEL	PRODUCTION
JOE	PRODUCTION
DAVID	MARKETING
JANET	PRODUCTION
NEVILLE	MARKETING
RICHARDSON	SALES

11. Update the salary of all employees working in production department 12%.

UPDATE Employee SET Salary=Salary+salary*0.12 WHERE Dept=’Production’

SELECT * FROM Employee

EMP_ID	EMP_NAME	DEPT	SALARY
1	MICHAEL	PRODUCTION	2800
2	JOE	PRODUCTION	2800
3	SMITH	SALES	2250
4	DAVID	MARKETING	2900
5	RICHARD	SALES	1900
6	JESSY	MARKETING	1800
7	JANE	SALES	2000
8	JANET	PRODUCTION	3360
9	NEVILLE	MARKETING	2750
10	RICHARDSON	SALES	1900

12. Display the names of all employees whose salary is less than 2000$ or working for the sales department.

```
SELECT Emp_name FROM Employee WHERE Salary<2000 OR Dept='Sales'
```

EMP_NAME
SMITH
RICHARD
JESSY
JANE
RICHARDSON

RESULT

The query was executed and the output was obtained