Lab 11:

a) Write sql code to create alias name of existing attributes.

Source code:

```
CREATE TABLE Employee (

    emp_id INT PRIMARY KEY,

    emp_name VARCHAR(50),

    emp_salary DECIMAL(10,2),

    emp_dept VARCHAR(50)

);


INSERT INTO Employee VALUES

(1, 'Aayush', 40000, 'HR'),

(2, 'Gaurav', 50000, 'IT'),

(3, 'Sita', 60000, 'Finance');


SELECT

    emp_id AS ID,

    emp_name AS NAME,

    emp_salary AS Salary,

    emp_dept AS Department

FROM Employee;
```

Output:

ID	Name	Salary	Department
1	Aayush	40000.00	HR
2	Gaurav	50000.00	IT
3	Sita	60000.00	Finance

b) Create table Teacher with suitable fields.
   i)   Insert seven records.

```
CREATE TABLE Teacher (
    t_id INT PRIMARY KEY,
    t_name VARCHAR(50),
    department VARCHAR(50),
    salary DECIMAL(10,2),
    experience INT
);

INSERT INTO Teacher (t_id, t_name, department, salary, experience) VALUES
(1, 'Aayush', 'Computer', 40000, 5),
(2, 'Gaurav', 'Math', 35000, 12),
(3, 'Sita', 'Computer', 45000, 11),
(4, 'Ramesh', 'Science', 30000, 8),
(5, 'Kiran', 'Math', 50000, 15),
(6, 'Anita', 'Computer', 38000, 6),
(7, 'Bikash', 'English', 32000, 9);
```

   ii)   Give increment of 30% of salary of computer dept.

```
UPDATE Teacher
SET salary = salary * 1.30
WHERE department = 'Computer';
```

   iii)   Give increment of 50% of salary who works more than 10 years.

```
UPDATE Teacher
SET salary = salary * 1.50
WHERE experience > 10;
```

t_id	t_name	department	salary	experience
1	Aayush	Computer	52000.00	5
2	Gaurav	Math	52500.00	12
3	Sita	Computer	87750.00	11
4	Ramesh	Science	30000.00	8
5	Kiran	Math	75000.00	15
6	Anita	Computer	49400.00	6
7	Bikash	English	32000.00	9

iv)   Find the highest paying and lowest paying teacher from math dept.

SELECT t_id, t_name, department, salary
FROM Teacher
WHERE department = 'Math'
ORDER BY salary DESC
LIMIT 1;

t_id	t_name	department	salary
5	Kiran	Math	75000.00

SELECT t_id, t_name, department, salary
FROM Teacher
WHERE department = 'Math'
ORDER BY salary ASC
LIMIT 1;

t_id	t_name	department	salary
2	Gaurav	Math	52500.00