```
Lab 13:
i) Illustrate set comparison operation with sub-queries
ii) Use EXISTS keyword in SELECT statement to test for empty relations
Source code:
CREATE DATABASE Corporation;
USE Corporation;
CREATE TABLE Employee details (
  Emp_id INT PRIMARY KEY AUTO_INCREMENT,
  Emp name VARCHAR(30),
  Department VARCHAR(20),
  Salary DECIMAL(10,2),
  Age INT
);
CREATE TABLE Department_details (
  Department VARCHAR(20) PRIMARY KEY,
  Location VARCHAR(50)
);
INSERT INTO Employee_details VALUES
  ('Ram', 'HR', 48000, 27),
  ('Sita', 'IT', 62000, 31),
  ('Shyam', 'Finance', 56000, 39),
  ('Gita', 'IT', 73000, 30),
  ('Prakash', 'Developer', 78000, 25),
  ('Hari', 'HR', 51000, 34);
INSERT INTO Employee_details VALUES
```

('Anita', 'Intern', 40000, 22);

INSERT INTO Department_details VALUES

```
('UI', 'Kathmandu'),

('Finance', 'Pokhara'),

('Developer', 'Lalitpur'),

('IT', 'Bhaktapur');
```

SELECT Emp_name, Salary FROM Employee_details

WHERE Salary > ANY (SELECT Salary FROM Employee_details WHERE Department = 'HR');

Emp_name	Salary
Sita	62000.00
Shyam	56000.00
Gita	73000.00
Prakash	78000.00
Hari	51000.00

SELECT Emp_name, Salary FROM Employee_details

WHERE Salary > ALL (SELECT Salary FROM Employee_details WHERE Department = 'HR');

Emp_name	Salary
Sita	62000.00
Shyam	56000.00
Gita	73000.00
Prakash	78000.00

SELECT Emp_name, Department FROM Employee_details

WHERE Department IN (SELECT Department FROM Employee_details WHERE Emp_name = 'Sita');

Emp_name	Department
Sita	IT
Gita	IT

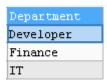
SELECT Emp_name, Department FROM Employee_details AS e

WHERE EXISTS (SELECT 1 FROM Department_details AS d WHERE d.Department = 'Finance');

Emp_name	Department
Ram	HR
Sita	IT
Shyam	Finance
Gita	IT
Prakash	Developer
Hari	HR
Anita	Intern

SELECT Department FROM Department_details AS d

WHERE EXISTS (SELECT 1 FROM Employee_details AS e WHERE e.Department = d.Department);



SELECT Emp_name, Department FROM Employee_details

WHERE Department NOT IN (SELECT Department FROM Department_details WHERE Department = 'IT');

Emp_name	Department
Ram	HR
Shyam	Finance
Prakash	Developer
Hari	HR
Anita	Intern

SELECT Department FROM Department_details AS d

WHERE NOT EXISTS (SELECT 1 FROM Employee_details AS e WHERE e.Department = d.Department);

