

**LAB-02**

**Title: Use of Conditional Operator in SQL.**

**Name: Azizul Abedin Azmi**

**ID: 2022-1-60-130**

**Section: 02**

**Course Code: CSE302**

**Course Title: (Database Management System)**

**Date: 13/07/2024**

**Course Instructor:**

**Dr. Mohammad Arifuzzaman**

**Associate Professor**

**Department of Computer Science and Engineering**

**Task-1:**

CREATE TABLE Student\_info (

    Stu\_id INT PRIMARY KEY,

    Stu\_name VARCHAR(50),

    Stu\_address VARCHAR(100),

    Course\_id VARCHAR(10)

);

INSERT INTO Student\_info (Stu\_id, Stu\_name, Stu\_address, Course\_id) VALUES

(401, 'Asif', 'Dhaka', 'CSE-246'),

(406, 'Ana', 'Sylhet', 'CSE-103'),

(403, 'Bobi', 'Rajshahi', 'CSE-405'),

(402, 'Rupa', 'Dhaka', 'CSE-246'),

(405, 'Riya', 'Dhaka', 'CSE-405'),

(407, 'Robi', 'Khulna', 'CSE-302'),

(408, 'Nazrul', 'Khulna', 'CSE-302'),

(404, 'Ovi', 'Barisal', 'CSE-103');

****

CREATE TABLE Course\_info (

    Course\_id VARCHAR(10) PRIMARY KEY,

    Course\_name VARCHAR(50),

    Semester VARCHAR(20),

    Year VARCHAR(10)

);

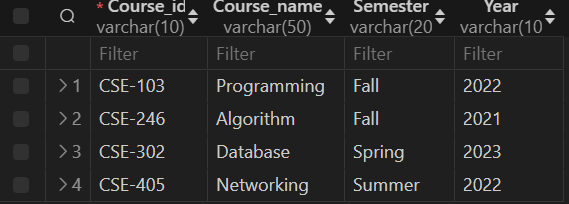
INSERT INTO Course\_info (Course\_id, Course\_name, Semester, Year) VALUES

('CSE-103', 'Programming', 'Fall', '2022'),

('CSE-302', 'Database', 'Spring', '2023'),

('CSE-246', 'Algorithm', 'Fall', '2021'),

('CSE-405', 'Networking', 'Summer', '2022');

****

CREATE TABLE Workers (

    ename VARCHAR(50),

    Cname VARCHAR(50),

    salary INT

);

INSERT INTO Workers (ename, Cname, salary) VALUES

('Rahim', 'Samsung', 20000),

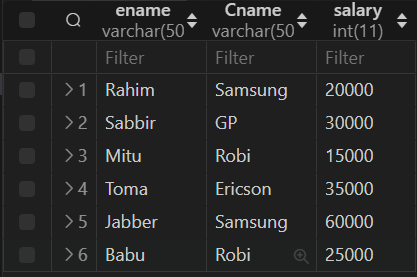
('Sabbir', 'GP', 30000),

('Mitu', 'Robi', 15000),

('Toma', 'Ericson', 35000),

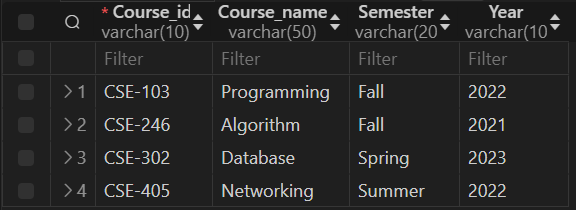
('Jabber', 'Samsung', 60000),

('Babu', 'Robi', 25000);

****

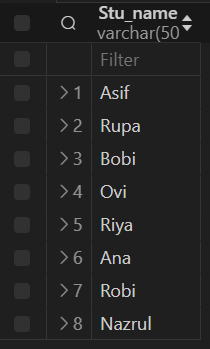
**Task-2:**

SELECT \* FROM Course\_info

****

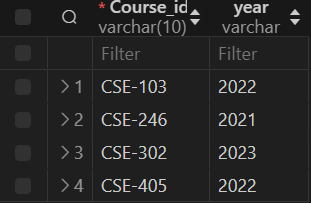
**Task-3:**

SELECT Stu\_name FROM Student\_info

****

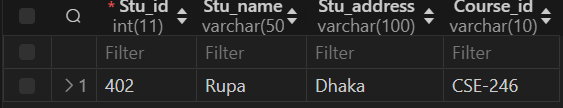
**Task-4:**

SELECT Course\_id, year FROM Course\_info

****

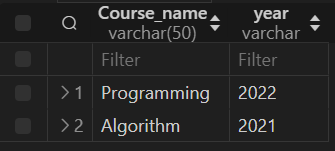
**Task-5:**

SELECT \* FROM Student\_info where Stu\_name='Rupa'

****

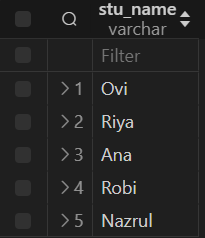
**Task-6:**

SELECT Course\_name,year FROM Course\_info where year < 2023 and semester='Fall'

****

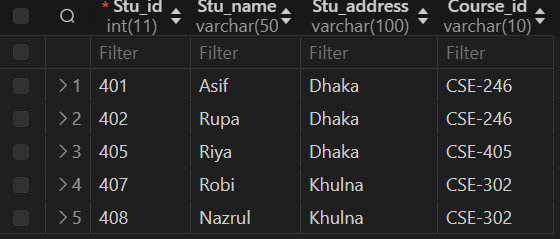
**Task-8:**

SELECT stu\_name FROM Student\_info WHERE stu\_id BETWEEN 404 and 408

****

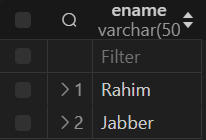
**Task-9:**

SELECT \* FROM Student\_info WHERE stu\_address IN ('Dhaka','Khulna');

****

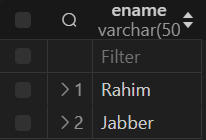
**Exercise-1:**

SELECT ename FROM workers WHERE `Cname`= 'Samsung';

****

**Exercise-2:**

SELECT ename FROM workers WHERE salary < '25000';

****

**Exercise-3:**

Using Between:

SELECT ename, Cname, salary FROM Workers WHERE salary BETWEEN 25001 AND 50000;



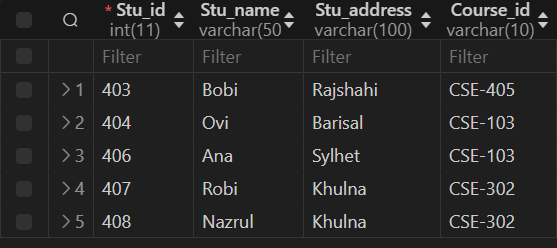
Using Between:

SELECT ename FROM workers WHERE `Cname`= 'Samsung';

****

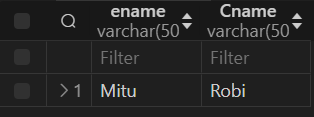
**Exercise-4:**

SELECT Stu\_id, Stu\_name, Stu\_address, Course\_id FROM student\_info WHERE Stu\_address != 'Dhaka';

****

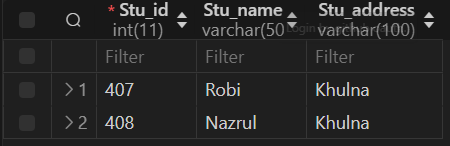
**Exercise-5:**

SELECT ename, Cname FROM workers WHERE salary < 20000 AND Cname = 'Robi';

****

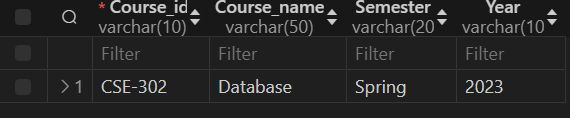
**Exercise-6:**

SELECT Stu\_id, Stu\_name, Stu\_address FROM student\_info WHERE Course\_id = 'CSE-302';

****

**Exercise-7:**

SELECT Course\_id, Course\_name, Semester, Year FROM course\_info WHERE Semester = 'Spring';

****

**Conclusion:**

From the above information and exercises, we can conclude the following:

* SQL commands such as SELECT, WHERE, IN, BETWEEN, and <> (not equal) were used effectively to retrieve specific data from tables.
* Conditional operators (=, <>, >, <, >=, <=, BETWEEN, IN) were applied to filter records based on specified conditions.
* Tables (Student\_info, Course\_info, Workers) were created, and data was inserted into them using CREATE TABLE and INSERT INTO statements.
* Each task and exercise provided a hands-on experience with SQL queries to manipulate and extract data as per given requirements.