

**LAB-03**

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

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

**Section: 02**

**Course Code: CSE302**

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

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**Course Instructor:**

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**Associate Professor**

**Department of Computer Science and Engineering**

**Task-1:**

CREATE TABLE Loan (

    Loan\_no INT PRIMARY KEY,

    Amount INT,

    Branch\_name VARCHAR(50)

);

-- Inserting data into Loan table

INSERT INTO Loan (Loan\_no, Amount, Branch\_name)

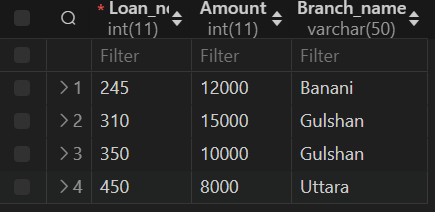
VALUES

    (245, 12000, 'Banani'),

    (310, 15000, 'Gulshan'),

    (350, 10000, 'Gulshan'),

    (450, 8000, 'Uttara');

****

CREATE TABLE Account (

    Acct\_no INT PRIMARY KEY,

    Balance INT,

    Branch\_name VARCHAR(50)

);

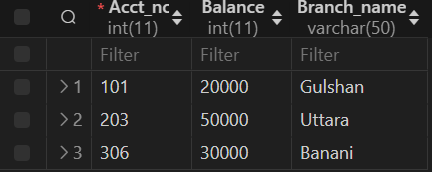
INSERT INTO Account (Acct\_no, Balance, Branch\_name)

VALUES

    (101, 20000, 'Gulshan'),

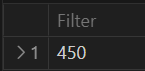
    (203, 50000, 'Uttara'),

    (306, 30000, 'Banani');

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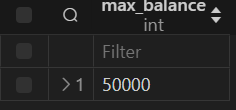
**Task-2:**

select loan\_no from loan where amount=(select MIN(amount) from loan)

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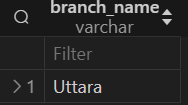
**Task-3:**

select MAX(balance) as max\_balance from account

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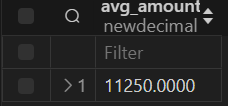
**Task-4:**

select branch\_name from account where balance=(select MAX(balance) from account)

****

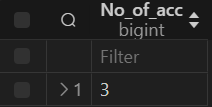
**Task-5:**

select AVG(amount) as avg\_amount from loan

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**Task-6:**

select COUNT(acct\_no) as No\_of\_acc from account

****

**Exercise-1:**

CREATE TABLE Employee\_details (

    EmpId INT PRIMARY KEY,

    EmpName VARCHAR(50),

    ProjectName VARCHAR(50),

    Salary INT

);

INSERT INTO Employee\_details (EmpId, EmpName, ProjectName, Salary)

VALUES

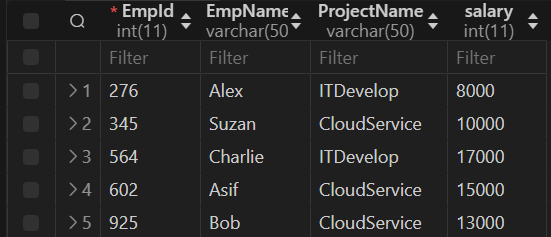
    (602, 'Asif', 'CloudService', 15000),

    (925, 'Bob', 'CloudService', 13000),

    (564, 'Charlie', 'ITDevelop', 17000),

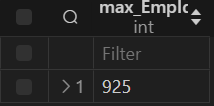
    (345, 'Suzan', 'CloudService', 10000),

    (276, 'Alex', 'ITDevelop', 8000);

****

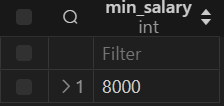
**Exercise-2:**

select MAX(EmpId) as max\_EmpId from employee\_details

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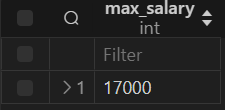
**Exercise-3:**

select MIN(salary) as min\_salary from employee\_details



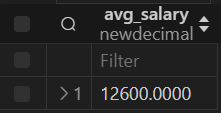
**Exercise-4:**

select MAx(salary) as max\_salary from employee\_details

****

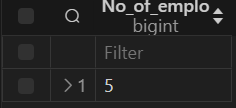
**Exercise-5:**

select AVG(salary) as avg\_salary from employee\_details

****

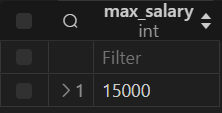
**Exercise-6:**

select COUNT(EmpId) as No\_of\_emplo from Employee\_details

****

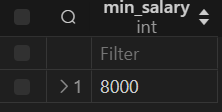
**Exercise-7:**

select MAX(salary) as max\_salary from employee\_details where ProjectName='CloudService'

****

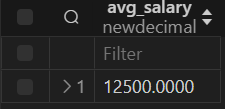
**Exercise-8:**

select MIN(salary) as min\_salary from employee\_details where ProjectName='ITDevelop'

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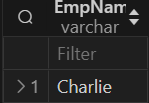
**Exercise-9:**

select AVG(salary) as avg\_salary from employee\_details where ProjectName ='ITDevelop'

****

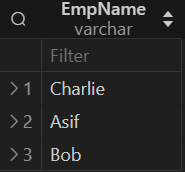
**Exercise-10:**

select EmpName from employee\_details where salary=(select MAX(salary) from employee\_details)

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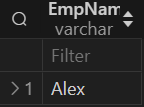
**Exercise-11:**

select EmpName from employee\_details where salary > (select AVG(salary) from employee\_details)

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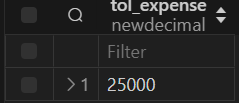
**Exercise-12:**

select EmpName from employee\_details where EmpId = (select MIN(EmpId) from employee\_details)

****

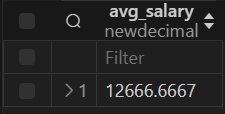
**Exercise-13:**

select SUM(salary) as tol\_expense from employee\_details where ProjectName ='ITDevelop'

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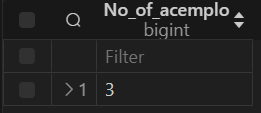
**Exercise-14:**

select AVG(salary) as avg\_salary from employee\_details where ProjectName ='CloudService'

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**Exercise-15:**

select COUNT(\*) as No\_of\_acemplo from employee\_details where ProjectName ='CloudService'

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**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.