## NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

## Cachar, Assam

### B.Tech. Vth Sem

Subject Code: CS-312

Subject Name: Database Management System

## Submitted By:

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Sch. Id. : 1912160

Branch : CSE - B

# CONNECTION: 1912160\_CS312

#### **CREATE SCHEMA `assignment5`**;

#### 1. i. student

|   | S_ID | Name   | Address   | Age  |
|---|------|--------|-----------|------|
|   | 1    | LOKI   | DELHI     | 19   |
|   | 2    | KISHAN | KERELA    | 20   |
|   | 3    | RISHI  | ASSAM     | 18   |
|   | 4    | SANJOY | KOLKATA   | 18   |
|   | 5    | VISHAL | TELENGANA | 20   |
|   | 6    | PRIYA  | ASSAM     | 19   |
|   | 7    | PURU   | BIHAR     | 18   |
| • | 8    | RIYA   | KARNATAKA | 19   |
|   | NULL | NULL   | NULL      | NULL |

);

INSERT INTO `assignment5`.`student` (`S\_ID`, `Name`, `Address`, `Age`) VALUES ('1', 'LOKI', 'DELHI', '19');

INSERT INTO `assignment5`.`student` (`S\_ID`, `Name`, `Address`, `Age`) VALUES ('2', 'KISHAN', 'KERELA', '20');

INSERT INTO `assignment5`. `student` (`S\_ID`, `Name`, `Address`, `Age`) VALUES ('3', 'RISHI', 'ASSAM', '18');

INSERT INTO `assignment5`.`student` (`S\_ID`, `Name`, `Address`, `Age`) VALUES ('4', 'SANJOY', 'KOLKATA', '18');

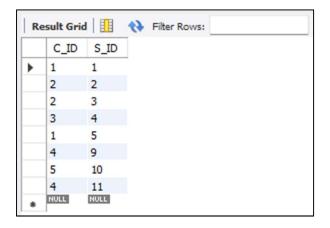
INSERT INTO `assignment5`.`student` (`S\_ID`, `Name`, `Address`, `Age`) VALUES ('5', 'VISHAL', 'TELENGANA', '20');

INSERT INTO `assignment5`. `student` (`S\_ID`, `Name`, `Address`, `Age`) VALUES ('6', 'PRIYA', 'ASSAM', '19');

INSERT INTO `assignment5`.`student` (`S\_ID`, `Name`, `Address`, `Age`) VALUES ('7', 'PURU', 'BIHAR', '18');

INSERT INTO `assignment5`.`student` (`S\_ID`, `Name`, `Address`, `Age`) VALUES ('8', 'RIYA', 'KARNATAKA', '19');

#### 1. ii. course



```
CREATE TABLE 'assignment5'.'course' (

'C_ID' INT NOT NULL,

'S_ID' INT NOT NULL,

PRIMARY KEY ('S_ID')

);

INSERT INTO 'assignment5'.'course' ('C_ID', 'S_ID') VALUES ('1', '1');

INSERT INTO 'assignment5'.'course' ('C_ID', 'S_ID') VALUES ('2', '2');

INSERT INTO 'assignment5'.'course' ('C_ID', 'S_ID') VALUES ('2', '3');

INSERT INTO 'assignment5'.'course' ('C_ID', 'S_ID') VALUES ('1', '4');

INSERT INTO 'assignment5'.'course' ('C_ID', 'S_ID') VALUES ('1', '5');

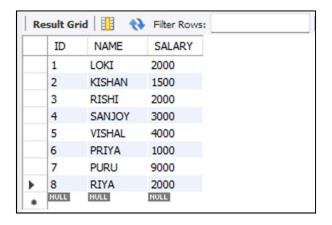
INSERT INTO 'assignment5'.'course' ('C_ID', 'S_ID') VALUES ('4', '9');

INSERT INTO 'assignment5'.'course' ('C_ID', 'S_ID') VALUES ('4', '9');

INSERT INTO 'assignment5'.'course' ('C_ID', 'S_ID') VALUES ('4', '10');

INSERT INTO 'assignment5'.'course' ('C_ID', 'S_ID') VALUES ('4', '11');
```

#### 2. salary\_list

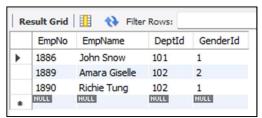


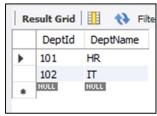
INSERT INTO `assignment5`.`salary\_list` (`ID`, `NAME`, `SALARY`) VALUES ('1', 'LOKI', '2000');
INSERT INTO `assignment5`.`salary\_list` (`ID`, `NAME`, `SALARY`) VALUES ('2', 'KISHAN', '1500');
INSERT INTO `assignment5`.`salary\_list` (`ID`, `NAME`, `SALARY`) VALUES ('3', 'RISHI', '2000');
INSERT INTO `assignment5`.`salary\_list` (`ID`, `NAME`, `SALARY`) VALUES ('4', 'SANJOY', '3000');
INSERT INTO `assignment5`.`salary\_list` (`ID`, `NAME`, `SALARY`) VALUES ('5', 'VISHAL', '4000');
INSERT INTO `assignment5`.`salary\_list` (`ID`, `NAME`, `SALARY`) VALUES ('6', 'PRIYA', '1000');
INSERT INTO `assignment5`.`salary\_list` (`ID`, `NAME`, `SALARY`) VALUES ('7', 'PURU', '9000');
INSERT INTO `assignment5`.`salary\_list` (`ID`, `NAME`, `SALARY`) VALUES ('8', 'RIYA', '2000');

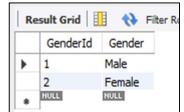
#### 3. i. employee

## 3. ii. department

3. iv. gender



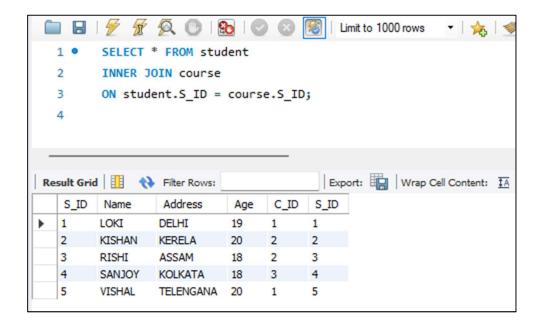




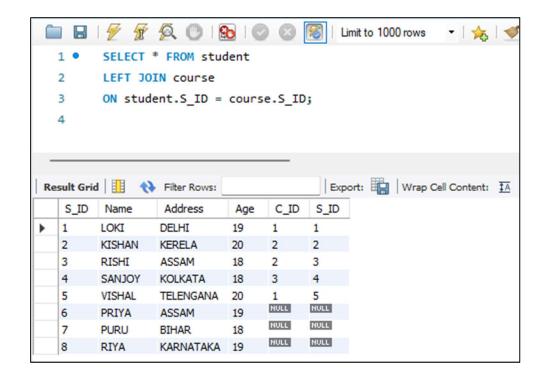
CREATE TABLE 'assignment5'.'employee' ( `EmpNo` INT NOT NULL, `EmpName` VARCHAR(20) NOT NULL, `DeptId` INT NOT NULL, 'GenderId' INT(1) NOT NULL, PRIMARY KEY (`EmpNo`)); INSERT INTO 'assignment5'. 'employee' ('EmpNo', 'EmpName', 'DeptId', 'GenderId') VALUES ('1886', 'John Snow', '101', '1'); INSERT INTO 'assignment5'. 'employee' ('EmpNo', 'EmpName', 'DeptId', 'GenderId') VALUES ('1889', 'Amara Giselle', '102', '2'); INSERT INTO 'assignment5'. 'employee' ('EmpNo', 'EmpName', 'DeptId', 'GenderId') VALUES ('1890', 'Richie Tung', '102', '1'); CREATE TABLE `assignment5`. `department` ( 'DeptId' INT NOT NULL, 'DeptName' VARCHAR(5) NOT NULL, PRIMARY KEY ('DeptId')); INSERT INTO 'assignment5'. 'department' ('DeptId', 'DeptName') VALUES ('101', 'HR'); INSERT INTO 'assignment5'. 'department' ('DeptId', 'DeptName') VALUES ('102', 'IT'); CREATE TABLE `assignment5`.`gender` ( 'GenderId' INT NOT NULL, 'Gender' VARCHAR(10) NOT NULL, PRIMARY KEY ('GenderId')); INSERT INTO 'assignment5'. 'gender' ('GenderId', 'Gender') VALUES ('01', 'Male');

INSERT INTO 'assignment5'.'gender' ('GenderId', 'Gender') VALUES ('02', 'Female');

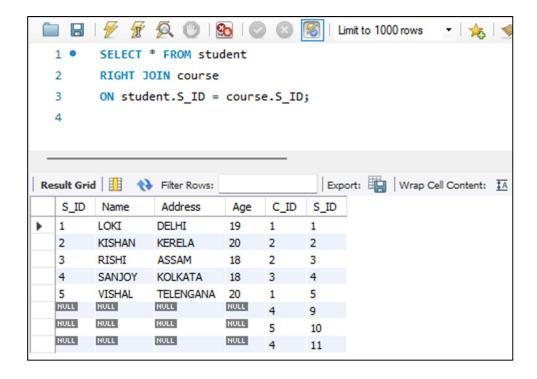
- 1. See the given below tables, i.e., Student and Course
  - i. Write a query to perform the inner join and show the output with all the attributes.
    - → SELECT \* FROM student INNER JOIN course ON student.S\_ID = course.S\_ID;



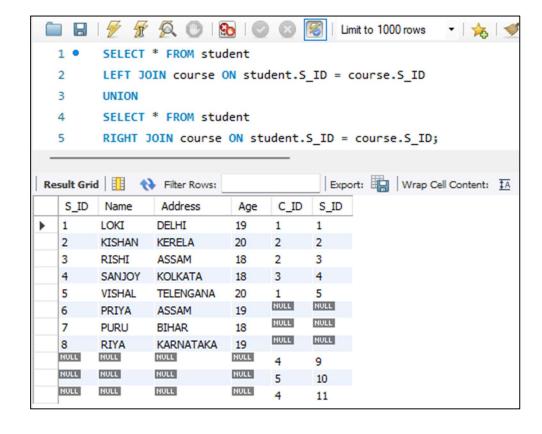
- ii. Write the query to perform the left join and show the output with all the attributes.
  - → SELECT \* FROM student LEFT JOIN course ON student.S\_ID = course.S\_ID;



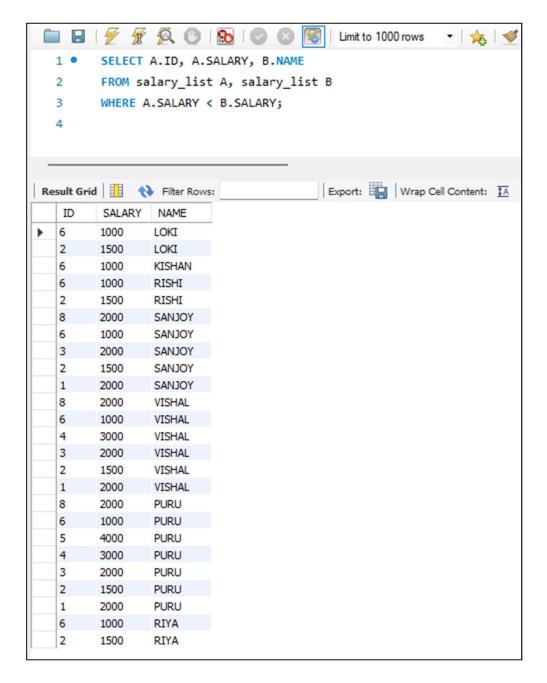
- iii. Write the query to perform the right join and show the output with all the attributes.
  - → SELECT \* FROM student RIGHT JOIN course ON student.S ID = course.S ID;



- iv. Write the query to perform the full join and show the output with all the attributes.
  - → SELECT \* FROM student LEFT JOIN course ON student.S\_ID = course.S\_ID UNION SELECT \* FROM student RIGHT JOIN course ON student.S\_ID = course.S\_ID;



- 2. See the given below tables i.e., Salary and write the query to perform self-join with the condition "A.SALARY\_LIST < B.SALARY\_LIST", and show the output with ID and SALARY of A and name of B in the output, Where A and B are the alias.
  - → SELECT A.ID, A.SALARY, B.NAME FROM salary\_list A, salary\_list B WHERE A.SALARY < B.SALARY;



- 3. Write the SQL command to join 3 tables. Tables are given below.
  - → SELECT \* FROM employee

    JOIN department ON employee.DeptId = department.DeptId

    Join gender ON employee.GenderID = gender.GenderId;

