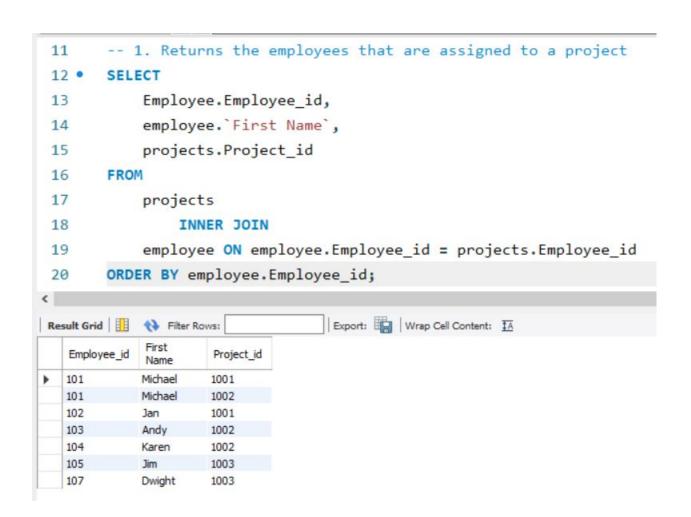
DBMS ASSIGNMENT-5 GROUP - 7

1.INNER JOIN

Query 1

SELECT Employee.Employee_id, employee.`First Name`, projects.Project_id FROM projects

INNER JOIN employee ON employee.Employee_id = projects.Employee_id
ORDER BY employee.Employee_id;



Query 2

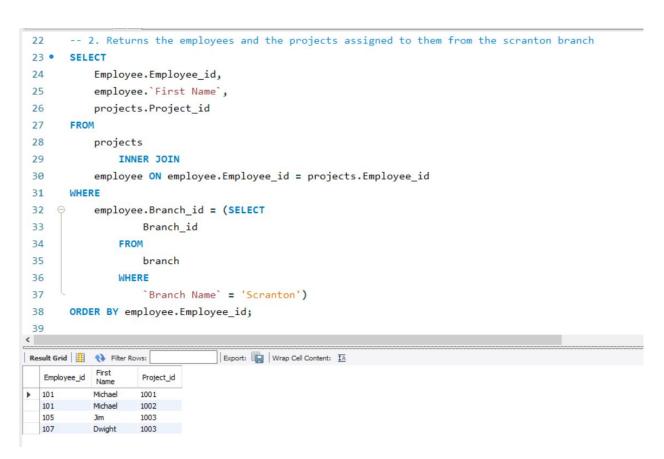
SELECT Employee.Employee_id, employee.`First Name`, projects.Project_id FROM projects

INNER JOIN employee ON employee.Employee_id = projects.Employee_id
WHERE employee.Branch_id =(

SELECT Branch_id FROM branch

WHERE `Branch Name` = 'Scranton')

ORDER BY employee.Employee_id;



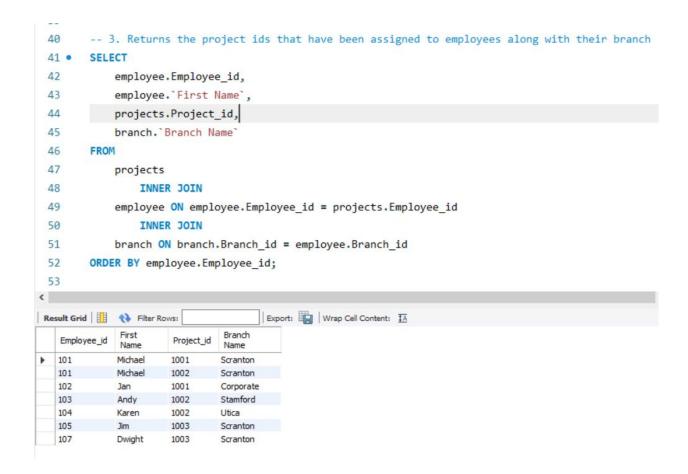
Query 3

SELECT Employee.Employee_id, employee.`First Name`, projects.Project_id, branch.`Branch Name` FROM projects

INNER JOIN employee ON employee.Employee_id = projects.Employee_id

INNER JOIN branch ON branch.Branch_id = employee.Branch_id

ORDER BY employee.Employee_id;



2. LEFT JOIN

Query 1

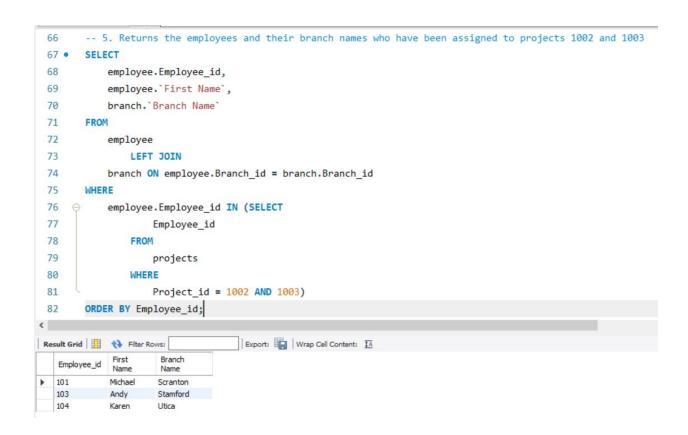
SELECT Employee.Employee_id, employee.`First Name`, projects.Project_id FROM employee

LEFT JOIN projects ON employee.Employee_id = projects.Employee_id ORDER BY employee.Employee_id;

```
54
         -- 4. Returns all employees and their project ids
55 •
         SELECT
56
              Employee. Employee id,
57
             employee. First Name,
58
             projects.Project_id
59
         FROM
60
              employee
                  LEFT JOIN
61
62
              projects ON employee.Employee_id = projects.Employee_id
         ORDER BY employee. Employee id;
63
64
Result Grid
              Filter Rows:
                                          Export: Wrap Cell Content: TA
              First
   Employee_id
                         Project id
              Name
  101
              Michael
                        1001
              Michael
   101
                        1002
   102
              Jan
                        1001
   103
              Andy
                        1002
   104
              Karen
                        1002
   105
              Jim
                        1003
                        NULL
   106
              Pam
   107
              Dwight
                        1003
                        NULL
              Creed
   108
                        NULL
   109
              David
                        NULL
  110
              AJ
```

Query 2

```
SELECT employee.Employee_id, employee.`First Name`, branch.`Branch
Name` FROM employee
LEFT JOIN branch ON employee.Branch_id = branch.Branch_id
WHERE employee.Employee_id IN(
SELECT Employee_id FROM projects WHERE Project_id = 1002
AND 1003)
ORDER BY Employee_id;
```



Query 3

SELECT employee.Employee_id, employee.`First Name`, projects.Project_id FROM projects

LEFT JOIN employee ON employee.Employee_id = projects.Employee_id WHERE employee.Salary>90000 ORDER BY `First Name`;

```
84
       -- 6. Returns employees with salary greater than 90000 who have been assigned a project
      SELECT
85 •
           employee. Employee_id,
86
           employee. First Name,
87
88
           projects.Project_id
89
       FROM
90
           projects
               LEFT JOIN
91
           employee ON employee.Employee_id = projects.Employee_id
92
93
           employee.Salary > 90000
94
       ORDER BY `First Name`;
95
Export: Wrap Cell Content: IA
  Employee_id
                     Project_id
                     1001
            Jan
                    1002
  101
           Michael
                    1001
  101
           Michael
                    1002
```

3. RIGHT JOIN

Query 1

SELECT

```
Employee.Employee_id,
employee. First Name,
projects.Project_id
```

FROM

employee

RIGHT JOIN

projects ON employee.Employee_id = projects.Employee_id ORDER BY projects. Project_id;

```
-- Returns all the projects and the employees assigned to them
 30 •
         SELECT
              Employee.Employee_id,
 31
              employee. First Name,
 32
 33
              projects.Project_id
 34
         FROM
 35
              employee
 36
                  RIGHT JOIN
              projects ON employee.Employee_id = projects.Employee_id
 37
         ORDER BY projects.Project id;
 38
Result Grid
                                             Export: Wrap Cell Content: IA
               Filter Rows:
               First
   Employee_id
                           Project_id
               Name
   101
               Michael
                          1001
   102
                          1001
   103
               Andy
                          1002
   101
               Michael
                          1002
   104
               Karen
                          1002
               Dwight
   107
                          1003
   105
               Jim
                          1003
  NULL
              NULL
                          1004
  NULL
              NULL
                          1005
```

Query 2

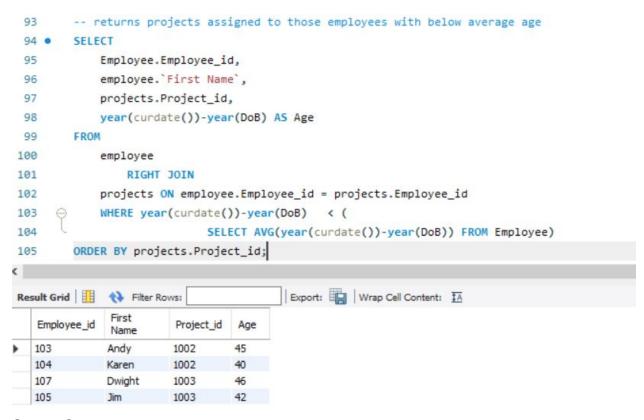
SELECT

```
Employee.Employee_id,
employee.`First Name`,
projects.Project_id,
YEAR(CURDATE()) - YEAR(DoB) AS Age
FROM
employee
RIGHT JOIN
projects ON employee.Employee_id = projects.Employee_id
WHERE
YEAR(CURDATE()) - YEAR(DoB) < (SELECT
AVG(YEAR(CURDATE()) - YEAR(DoB))
```

FROM

Employee)

ORDER BY projects.Project_id;



Query 3

SELECT

branch.Branch_id, branch.Branch Name`

FROM

projects

INNER JOIN

employee ON employee.Employee_id = projects.Employee_id

RIGHT JOIN

branch ON employee.Branch_id = branch.Branch_id

WHERE

projects.Employee_id IS NOT NULL

GROUP BY `Branch Name`

ORDER BY projects.Project_id;

```
123
124
        -- 9. Returns all the branches that have been assigned projects
125 •
        SELECT
            branch.Branch_id, branch. Branch Name`
126
        FROM
127
128
            projects
129
                INNER JOIN
130
            employee ON employee.Employee_id = projects.Employee_id
131
                RIGHT JOIN
132
            branch ON employee.Branch_id = branch.Branch_id
133
        WHERE
            projects.Employee_id IS NOT NULL
134
        GROUP BY 'Branch Name';
135
                                       Export: Wrap Cell Content: IA
Branch
   Branch_id
            Name
           Scranton
  1
  2
           Corporate
           Stamford
  5
           Utica
```