

School Of Computer Science and Engineering

Assignment 6 (Winter Sem 2021-2022)

Course Code: CSE2007 Course Title: Database Management Systems

Faculty Name: Manomita Chakraborty (70296)

Aim: To understand join operations in SQL

Employee

	EmployeeID	FirstName	LastName	Salary	JoiningDate	Department	Gender
1	1	Vikas	Ahlawat	600000.00	2013-02-15 11:16:28.290	IT	Male
2	2	nikita	Jain	530000.00	2014-01-09 17:31:07.793	HR@interv	Pemale stions
3	3	Ashish	Kumar	1000000.00	2014-01-09 10:05:07.793	IT	Male
4	4	Nikhil	Shama	480000.00	2014-01-09 09:00:07.793	HR	Male
5	5	anish	kadian	500000.00	2014-01-09 09:31:07.793	Payroll	Male

CREATE TABLE EMPLOYEE_20BCE7236(EMPID NUMERIC(1), FIRST_NAME VARCHAR(6),LAST_NAME VARCHAR(10), SALARY NUMERIC(10), JOIN_DATE VARCHAR(30), DEPARTMENT VARCHAR(10), GENDER CHAR(6));

INSERT INTO EMPLOYEE_20BCE7236 VALUES(1, 'Vikas', 'Ahlawat', '600000', '2013-02-15 11:16:28.290', 'IT', 'Male');

INSERT INTO EMPLOYEE_20BCE7236 VALUES(2, 'Nikita', 'Jain', '530000', '2014-01-09 17:31:07.793', 'HR', 'Female');

INSERT INTO EMPLOYEE_20BCE7236 VALUES(3, 'Ashish', 'Kumar', '1000000', '2014-01-09 10:05:07.793', 'IT', 'Male');

INSERT INTO EMPLOYEE_20BCE7236 VALUES(4, 'Nikhil', 'Sharma', '480000', '2014-01-09 09:00:07.793', 'HR', 'Male');

INSERT INTO EMPLOYEE_20BCE7236 VALUES(5, 'Anish', 'Kadian', '500000', '2014-01-09 09:31:07.793', 'PAYROLL', 'Male');

OUTPUT:

•	1	19:29:33	CREATE TABLE EMPLOYEE_20BCE7236(EMPID NUMERIC(1), FIRST_NAME VARCHAR	0 row(s) affected
0	2	19:29:46	INSERT INTO EMPLOYEE_20BCE7236 VALUES(1, "Vikas", 'Ahlawat', '600000', '2013-02-1	1 row(s) affected
•	3	19:29:47	INSERT INTO EMPLOYEE_20BCE7236 VALUES(2, 'Nikita', 'Jain', '530000', '2014-01-09 1	1 row(s) affected
0	4	19:29:47	INSERT INTO EMPLOYEE_20BCE7236 VALUES(3, 'Ashish', 'Kumar', '1000000', '2014-01	1 row(s) affected
0	5	19:29:47	INSERT INTO EMPLOYEE_20BCE7236 VALUES(4, 'Nikhil', 'Shama', '480000', '2014-01-0	1 row(s) affected
	6	19-29-47	INSERT INTO EMPLOYEE 20RCE7236 VALUES/5 'Anioh' 'Kadian' '500000' '2014-01-09	1 mule) affected

Project

	Project Detail ID	Employee Detail ID	Project Name
1	1	1	Task Track
2	2	1	CLP
3	3	1	Survey Managment
4	4	2	HR Managment
5	5	3	Task Track
6	6	3	GRS
7	7	3	DDS
8	8	4	HR Managment
9	9	6	GL Managment

CREATE TABLE PROJECT_20BCE7236(PROJECTDETAIL_ID NUMERIC(1), EMPDETAIL_ID NUMERIC(1), PROJECT_NAME VARCHAR(20));

INSERT INTO PROJECT_20BCE7236 VALUES(1,1,'TASK TRACK');

INSERT INTO PROJECT 20BCE7236 VALUES(2,1,'CLP');

INSERT INTO PROJECT_20BCE7236 VALUES(3,1,'SURVEY MANAGEMENT');

INSERT INTO PROJECT_20BCE7236 VALUES(4,2,'HP MANAGEMENT');

INSERT INTO PROJECT_20BCE7236 VALUES(5,3,'TASK TRACK');

INSERT INTO PROJECT_20BCE7236 VALUES(6,3,'GRS');

INSERT INTO PROJECT_20BCE7236 VALUES(7,3,'DDS');

INSERT INTO PROJECT_20BCE7236 VALUES(8,4,'HR MANAGEMENT');

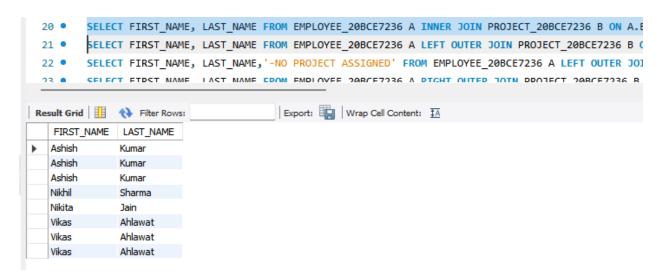
INSERT INTO PROJECT_20BCE7236 VALUES(9,6,'GL MANAGEMENT');

0	12	19:31:29	INSERT INTO PROJECT_20BCE7236 VALUES(5,3,'TASK TRACK')	1 row(s) affected
0	13	19:31:29	INSERT INTO PROJECT_20BCE7236 VALUES(6,3,'GRS')	1 row(s) affected
0	14	19:31:30	INSERT INTO PROJECT_20BCE7236 VALUES(7,3,'DDS')	1 row(s) affected
0	15	19:31:30	INSERT INTO PROJECT_20BCE7236 VALUES(8,4,'HR MANAGEMENT')	1 row(s) affected
0	16	19:31:30	INSERT INTO PROJECT_20BCE7236 VALUES(9,6,'GL MANAGEMENT')	1 row(s) affected

Questions

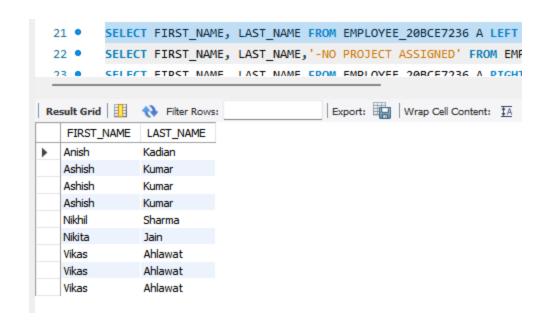
1. Find employee name, project name order by FirstName from "Employee" and "Project" for those employees who are assigned projects.

SELECT FIRST_NAME, LAST_NAME FROM EMPLOYEE_20BCE7236 A INNER JOIN PROJECT_20BCE7236 B ON A.EMPID=B.EMPDETAIL_ID ORDER BY FIRST_NAME;



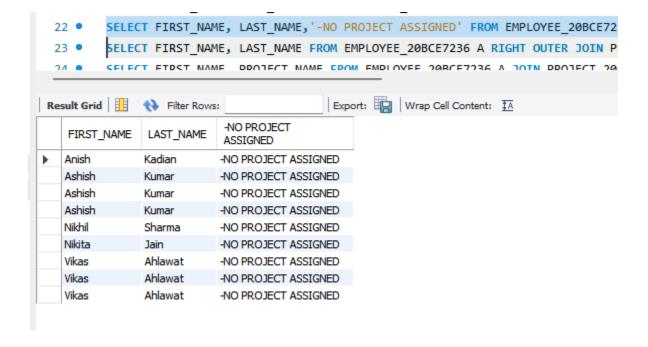
2. Find employee name, project name order by FirstName from "Employee" and "Project" for all employees, even if no project has been assigned to them.

SELECT FIRST_NAME, LAST_NAME FROM EMPLOYEE_20BCE7236 A LEFT OUTER JOIN PROJECT_20BCE7236 B ON A.EMPID=B.EMPDETAIL_ID ORDER BY FIRST_NAME;



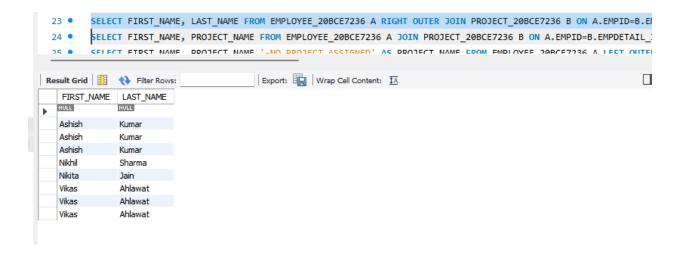
3. Find employee name, project name order by FirstName from "Employee" and "Project" for all employees. If no project has been assigned, the message "-No Project Assigned" will be displayed

SELECT FIRST_NAME, LAST_NAME,'-NO PROJECT ASSIGNED' FROM EMPLOYEE_20BCE7236 A LEFT OUTER JOIN PROJECT_20BCE7236 B ON A.EMPID=B.EMPDETAIL_ID ORDER BY FIRST_NAME;



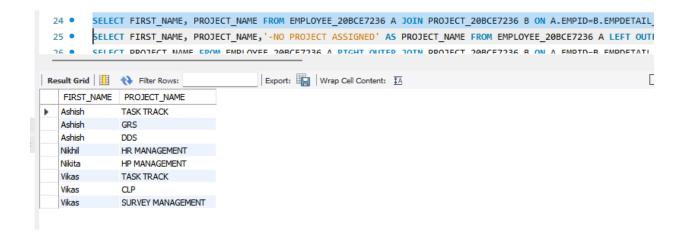
4. Find all project names from the table project, even if there is no matching EmployeeID in the employee table, ordered by FirstName.

SELECT FIRST_NAME, LAST_NAME FROM EMPLOYEE_20BCE7236 A RIGHT OUTER JOIN PROJECT_20BCE7236 B ON A.EMPID=B.EMPDETAIL_ID ORDER BY FIRST_NAME;



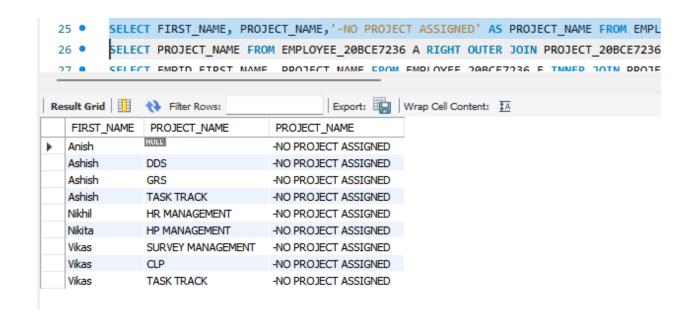
5. Retrieve the entire record (employee name, project name) from both tables ([Employee], [Project]). If no match is found in any table, display NULL

SELECT FIRST_NAME, PROJECT_NAME FROM EMPLOYEE_20BCE7236 A JOIN PROJECT_20BCE7236 B ON A.EMPID=B.EMPDETAIL_ID ORDER BY FIRST_NAME;



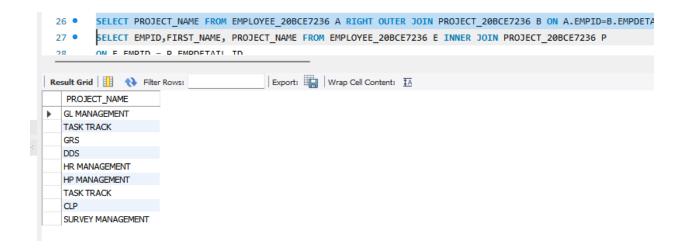
6. Write a query that returns the names of employees who have no projects assigned to them and displays "-No Project Assigned."

SELECT FIRST_NAME, PROJECT_NAME,'-NO PROJECT ASSIGNED' AS PROJECT_NAME FROM EMPLOYEE_20BCE7236 A LEFT OUTER JOIN PROJECT_20BCE7236 B ON A.EMPID=B.EMPDETAIL ID ORDER BY FIRST NAME;



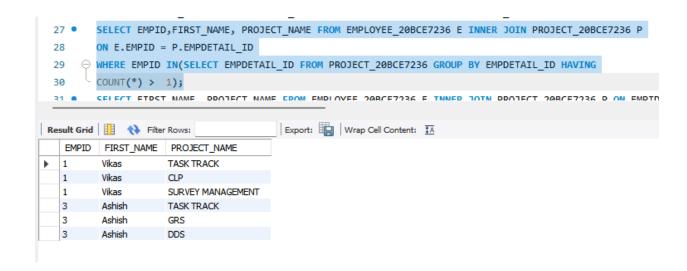
7. Write a query to find project names that have not been assigned to any employee.

SELECT PROJECT_NAME FROM EMPLOYEE_20BCE7236 A RIGHT OUTER JOIN PROJECT_20BCE7236 B ON A.EMPID=B.EMPDETAIL_ID ORDER BY FIRST_NAME;



8. Write a query to retrieve the Employee Names who are assigned to more than one project.

SELECT EMPID,FIRST_NAME, PROJECT_NAME FROM EMPLOYEE_20BCE7236 E INNER
JOIN PROJECT_20BCE7236 P ON E.EMPID = P.EMPDETAIL_ID
WHERE EMPID IN(SELECT EMPDETAIL_ID FROM PROJECT_20BCE7236 GROUP BY
EMPDETAIL_ID HAVING COUNT(*) > 1);



9. Write a query to retrieve the Project Names on which multiple employees are working, as well as their Employee Names.

SELECT FIRST_NAME, PROJECT_NAME FROM EMPLOYEE_20BCE7236 E INNER JOIN PROJECT_20BCE7236 P ON EMPID=P.EMPDETAIL_ID;



NAME: S.B.ASHRITH

REG NO: 20BCE7236