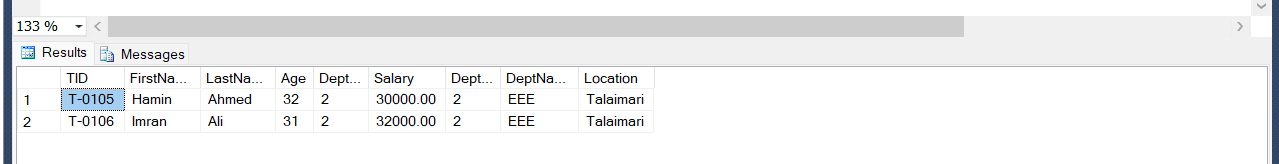
-- Write a query to display the total information of the teachers who are in the EEE department.

select \* from Tbl\_Teacher inner join Tbl\_Dept

on Tbl\_Teacher.DeptID = Tbl\_Dept.DeptID where Tbl\_Dept.DeptName ='EEE';



--Write a query to find the total number of teachers for each department in descending order.

select DeptName as Departmentname, count(TID) as Total\_Teacher from Tbl\_Teacher inner join Tbl\_Dept

on Tbl\_Teacher.DeptID = Tbl\_Dept.DeptID group by DeptName order by Total\_Teacher desc;



-- Write a query to find the name of the teacher who teaches more than one course.

select FirstName, LastName from Tbl\_Teacher join Tbl\_Course on Tbl\_Teacher.TID = Tbl\_Course.TID

group by Tbl\_Teacher.TID, Tbl\_Teacher.FirstName, Tbl\_Teacher.LastName having count(Tbl\_Course.Course\_Code)>1;

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Description automatically generated

-- Write a query to find the minimum salary of a Teacher for each department where the salary is

--less than the average salary.

SELECT D.DeptName AS Department, MIN(T.Salary) AS MinimumSalary FROM Tbl\_Teacher T JOIN Tbl\_Dept D ON T.DeptID = D.DeptID

GROUP BY D.DeptName

HAVING MIN(T.Salary) < (

SELECT AVG(Salary)

FROM Tbl\_Teacher

);

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Description automatically generated

--Write a query to find the top 2 departments with the highest total salaries of teachers. Display

--the department name and total salary in descending order.

SELECT TOP 2 D.DeptName AS DepartmentName, SUM(T.Salary) AS TotalSalary

FROM Tbl\_Teacher T

JOIN Tbl\_Dept D ON T.DeptID = D.DeptID

GROUP BY D.DeptName

ORDER BY TotalSalary DESC;

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Description automatically generated

-- Write a query to find the teachers who do not teach any course.

SELECT T.FirstName, T.LastName

FROM Tbl\_Teacher T

LEFT JOIN Tbl\_Course C ON T.TID = C.TID

WHERE C.Course\_Code IS NULL;

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Description automatically generated

--Update the Salary of the Teacher by 15% whose DeptName is ‘CSE’, otherwise update by 10%

--Salary.

UPDATE Tbl\_Teacher

SET Salary = CASE

WHEN DeptID = (SELECT DeptID FROM Tbl\_Dept WHERE DeptName = 'CSE') THEN Salary \* 1.15

ELSE Salary \* 1.10

END

WHERE DeptID = (SELECT DeptID FROM Tbl\_Dept WHERE DeptName = 'CSE');

select\* from Tbl\_Teacher;

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Description automatically generated

-- Write a query to find the first name, and salary for all the teachers of CSE who have a higher

--salary than Faruk Alam.

select FirstName, Salary from Tbl\_Teacher inner join Tbl\_Dept on Tbl\_Teacher.DeptID = Tbl\_Dept.DeptID

where Tbl\_Dept.DeptName='CSE' and Tbl\_Teacher.Salary>(select Salary from Tbl\_Teacher where TID ='T-0103');

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