**Assignment 3 : Retrieve data using Group By clause**

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**Sample table1:Department**

**-dept\_id**

**-dept\_name**

**Sample table2: Employee**

**-emp\_id**

**-dept\_id**

**-mngr\_id**

**-emp\_name**

**-salary**

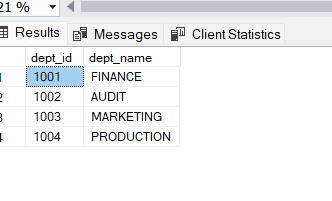
CREATE TABLE [DEPARTMENT]

( dept\_id INT PRIMARY KEY IDENTITY(1001,1),

dept\_name VARCHAR(50) NOT NULL

)

INSERT INTO [DEPARTMENT] VALUES ( 'FINANCE') ,('AUDIT'),('MARKETING'),('PRODUCTION')



CREATE TABLE [EMPLOYEE]

(emp\_id INT PRIMARY KEY IDENTITY(2001,1),

dept\_id INT NOT NULL,

mngr\_id INT,

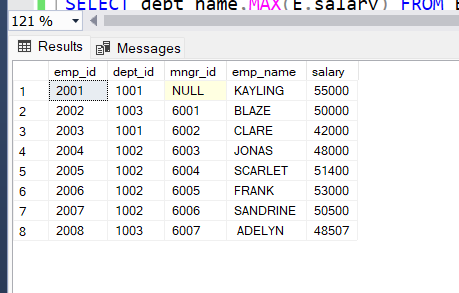
emp\_name NVARCHAR (50) NOT NULL,

salary INT NOT NULL

)

INSERT INTO [EMPLOYEE] VALUES (1001,NULL,'KAYLING',55000),(1003,6001,'BLAZE',50000),(1001,6002,'CLARE',42000),(1002,6003,'JONAS',48000),(1002,6004,'SCARLET',51400),(1002,6005,'FRANK',53000),(1002,6006,'SANDRINE',50500),(1003,6007,' ADELYN ',48507)

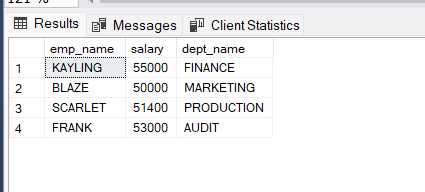
SELECT \* FROM [EMPLOYEE]



**1. write a SQL query to find Employees who have the biggest salary in their Department**

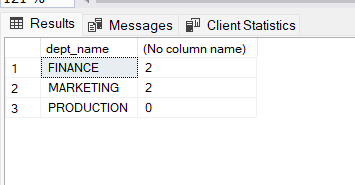
SELECT E.emp\_name,E.salary ,D.dept\_name FROM Employee E JOIN Department D ON E.dept\_id=D.dept\_id

WHERE E.salary IN (select MAX(salary) from Employee group BY dept\_id HAVING D.dept\_id=Employee.dept\_id) or E.salary is null

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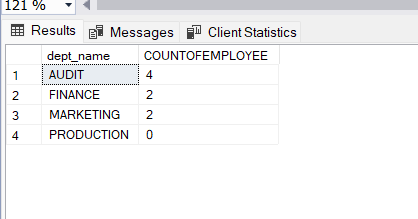
**2. write a SQL query to find Departments that have less than 3 people in it**

SELECT dept\_name,COUNT(E.emp\_name) FROM EMPLOYEE E RIGHT JOIN DEPARTMENT D ON E.dept\_id=D.dept\_id GROUP BY D.dept\_name HAVING COUNT(E.emp\_name )<3

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**3. write a SQL query to find All Department along with the number of people there**

SELECT dept\_name,COUNT(E.emp\_name) AS COUNTOFEMPLOYEE FROM EMPLOYEE E RIGHT JOIN DEPARTMENT D ON E.dept\_id=D.dept\_id GROUP BY D.dept\_name

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**4. write a SQL query to find All Department along with the total salary there**

SELECT dept\_name,SUM(salary) AS SALARYOFDEPARTMENT FROM EMPLOYEE E RIGHT JOIN DEPARTMENT D ON E.dept\_id=D.dept\_id GROUP BY D.dept\_name

