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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

CREATE TABLE Department

(

dept\_id INT NOT NULL PRIMARY KEY,

dept\_name NVARCHAR(50) NOT NULL

);

CREATE TABLE Employee

(

emp\_id INT NOT NULL PRIMARY KEY,

dept\_id INT NOT NULL,

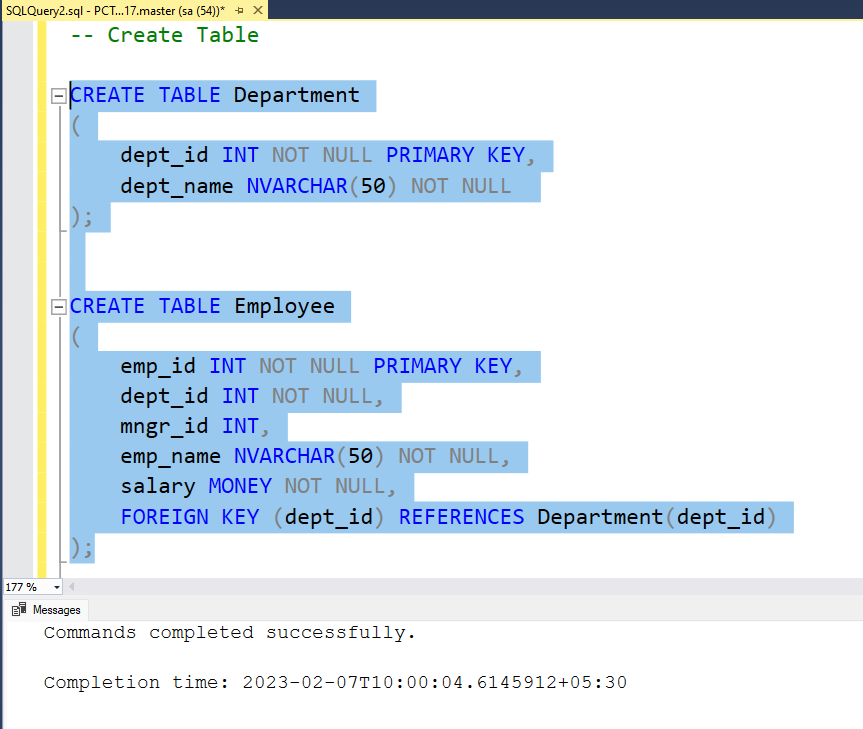
mngr\_id INT,

emp\_name NVARCHAR(50) NOT NULL,

salary MONEY NOT NULL,

FOREIGN KEY (dept\_id) REFERENCES Department(dept\_id)

);



--Insert Queries

INSERT INTO Department VALUES

(1001,'Finance'),

(2001,'Audit'),

(3001,'Marketing'),

(4001,'Production');

INSERT INTO Employee VALUES

(101,1001,NULL,'Kayling',6000),

(102,3001,101,'Blaze',2750),

(103,1001,101,'Clare',2550),

(104,2001,101,'Jonas',2957),

(105,2001,104,'Scarlet',3100),

(106,2001,104,'Frank',3100),

(107,2001,106,'Sandrine',900),

(108,3001,102,'Adelyn',1700),

(109,3001,102,'Wade',1350),

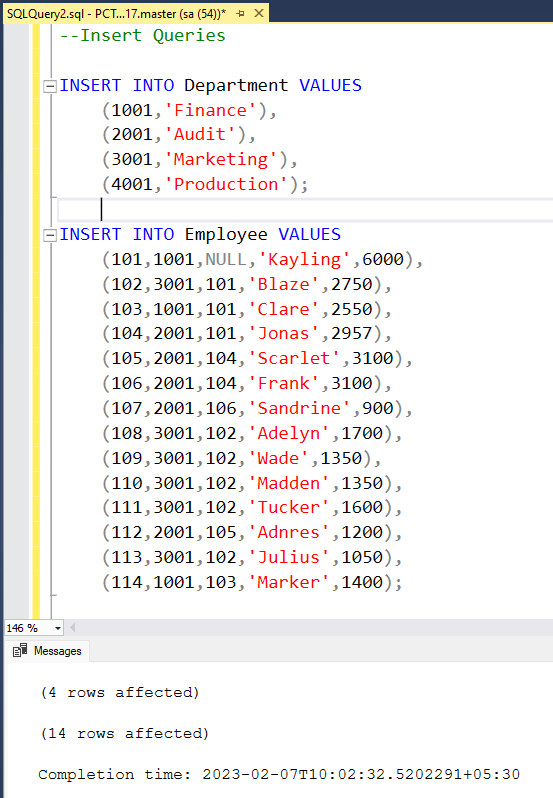
(110,3001,102,'Madden',1350),

(111,3001,102,'Tucker',1600),

(112,2001,105,'Adnres',1200),

(113,3001,102,'Julius',1050),

(114,1001,103,'Marker',1400);



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

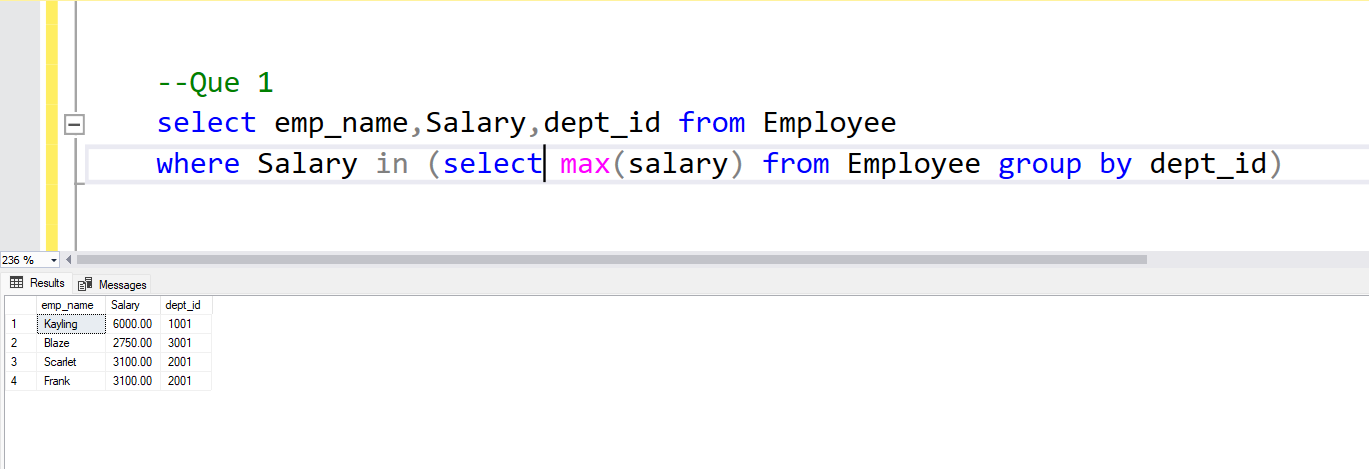
Ans:

**Query:**

select emp\_name,Salary,dept\_id from Employee

where Salary in (select max(salary) from Employee group by dept\_id)

**Output:**



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

Ans:

**Query:**

SELECT dept\_name AS "Department Name",

COUNT(employee.dept\_id) as

"Number Of People"

FROM Department

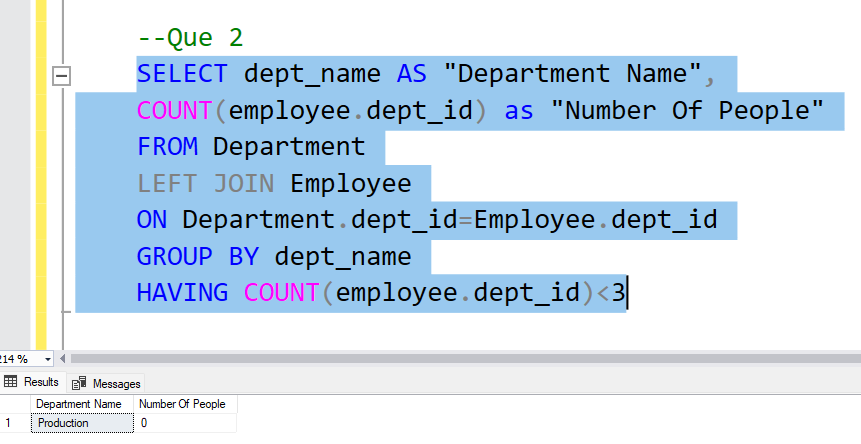
LEFT JOIN Employee

ON Department.dept\_id=Employee.dept\_id

GROUP BY dept\_name

HAVING COUNT(employee.dept\_id)<3

**OUTPUT:**

****

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

Ans:

**Query:**

SELECT dept\_name AS "Department Name",COUNT(employee.dept\_id) AS "Number Of People"

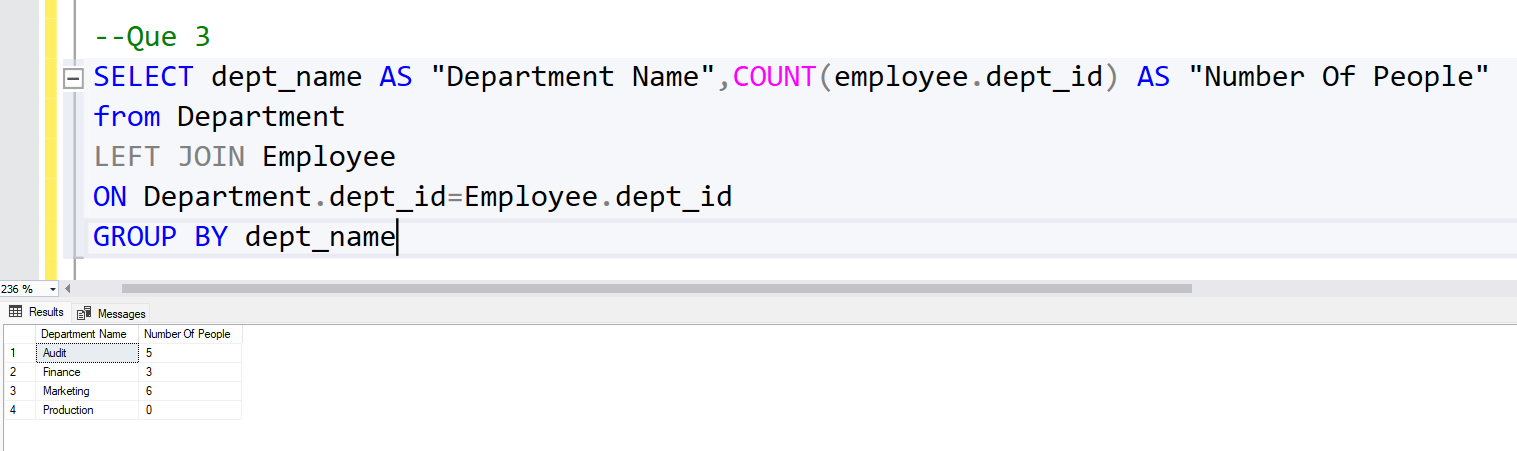
from Department

LEFT JOIN Employee

ON Department.dept\_id=Employee.dept\_id

GROUP BY dept\_name

**OUTPUT:**



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

Ans:

**Query:**

SELECT dept\_name AS "Department Name",ISNULL(SUM(salary),0) AS "Total Salary"

FROM Department

LEFT JOIN Employee

ON Department.dept\_id=Employee.dept\_id

GROUP BY dept\_name

**OUTPUT:**

