**SQL Assignment -3**

* Retrieve data using Group By clause

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 NOT NULL Primary key,

dept\_name varchar(40) NOT NULL

)

create table Employee(

emp\_id int NOT NULL Primary key,

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

mngr\_id int ,

emp\_name varchar(40) NOT NULL,

salary decimal(10,2) NOT NULL

)

insert into Department values('1','Administration')

insert into Department values('2','Research')

insert into Department values('3','Marketing')

insert into Department values('4','Sales')

insert into Department values('5','Human resources')

insert into Department values('6','Accounting')

insert into Department values('7','Finance')

insert into Employee values('100','4','1001','kailash','10000')

insert into Employee values('101','5','1002','manish','9900')

insert into Employee values('102','3','1003','archan','9000')

insert into Employee values('103','2','1004','darshan','7700')

insert into Employee values('104','6','1005','vivek','8000')

insert into Employee values('105','1','1006','ronak','7000')

insert into Employee values('106','7','1007','hiren','9500')

insert into Employee values('107','3','1008','tejas','9000')

insert into Employee values('108','1','1009','gaurav','10000')

insert into Employee values('109','6','1010','ketan','7500')

insert into Employee values('110','2','1011','hasu','8800')

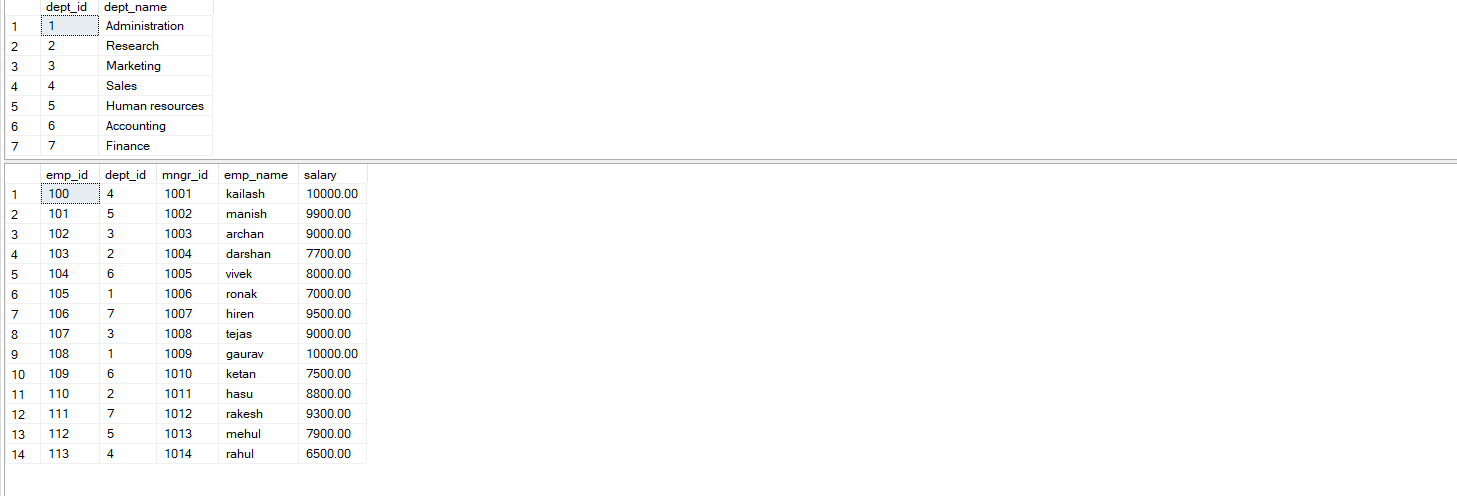
insert into Employee values('111','7','1012','rakesh','9300')

insert into Employee values('112','5','1013','mehul','7900')

insert into Employee values('113','4','1014','rahul','6500')

select \*from Department

select \*from Employee



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

SELECT emp\_id, emp\_name, salary AS [MAX SALART], Employee.dept\_id,

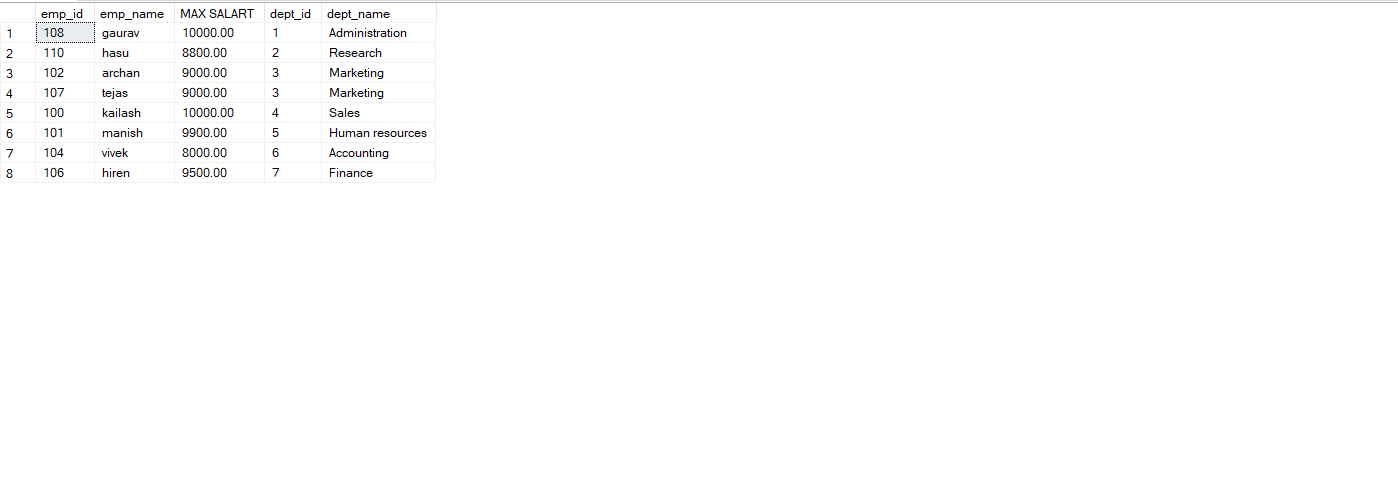
dept\_name

FROM Employee

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

WHERE salary IN

(SELECT MAX(salary) From Employee GROUP BY dept\_id)

****

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

SELECT Department.dept\_id,dept\_name, COUNT(emp\_id) AS Employees

FROM Department

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

GROUP BY dept\_name, Department.dept\_id

Having COUNT(emp\_id) < 3

****

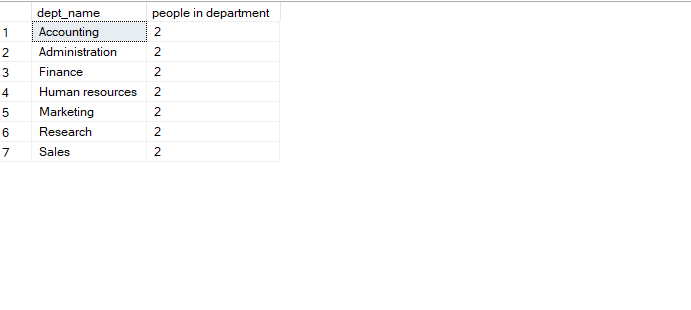
**3. write a SQL query to find All Department along with the number of people there**

SELECT Department.dept\_name, COUNT(emp\_id) AS [people in department]

FROM Employee

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

GROUP BY Department.dept\_name

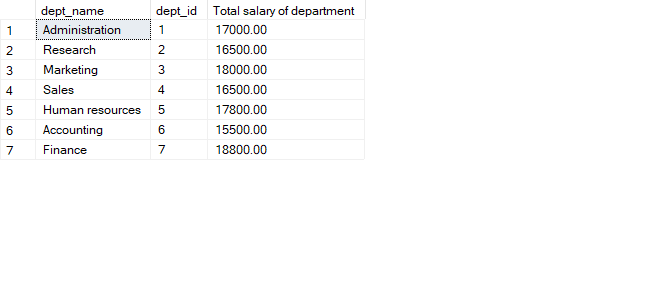
**4. write a SQL query to find All Department along with the total salary there**

SELECT dept\_name, Employee.dept\_id, SUM(salary) AS [Total salary of department]

FROM Employee

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

GROUP BY dept\_name,Employee.dept\_id

****