Assignment 3 : Retrieve data using Group By clause

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

Code:

select max(salary) as 'highest salary',d.dept_name from employee e join department d on d.dept_id=e.dept_id group by dept_name

select e.emp_name,e.salary,d.dept_name from employee e join department d on d.dept_id=e.dept_id where e.salary in(select max(salary) from employee group by dept_id)

Output:

	highest salary	dept_name
1	5000.00	Accounting
2	3000.00	Research
3	2850.00	Sales

	emp_name	salary	dept_name
1	BLAKE	2850.00	Sales
2	SCOTT	3000.00	Research
3	KING	5000.00	Accounting
4	FORD	3000.00	Research

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

Code:

select d.dept_id,d.dept_name,count(*) as 'total emp.' from employee e join department d on d.dept_id=e.dept_id group by d.dept_id,d.dept_name having count(*)<3

Output:

dept_id	dept_name	total emp.

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

Code:

select d.dept_id,d.dept_name,count(*) as 'total emp.' from employee e join department d on d.dept_id=e.dept_id group by d.dept_id,d.dept_name

Output:

	dept_id	dept_name	total emp.
1	10	Accounting	3
2	20	Research	5
3	30	Sales	6

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

Code:

select d.dept_id,d.dept_name,sum(e.salary) as 'total salary' from employee e join department d on d.dept_id=e.dept_id group by d.dept_id,d.dept_name

Output:

	dept_id	dept_name	total salary
1	10	Accounting	8750.00
2	20	Research	10875.00
3	30	Sales	9400.00