Assignment : 3

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

Query:

```
select e.emp_name, e.salary
from employees as e
join (select dept_id, MAX(salary) as max_salary
      from employees as e group by dept_id) as max_salary_by_dept
on e.dept_id = max_salary_by_dept.dept_id
AND e.salary = max_salary_by_dept.max_salary
```

	emp_name	salary
1	William Wilson	60000
2	Emily Davis	50000
3	Bob Smith	65000
4	David Anderson	65000
5	Michael Brown	65000
6	John Doe	55000
7	Alice Johnson	55000
8	Ashley Johnson	55000

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

Query:

```
select d.dept_name, dept_people_count.total_emp
from departments as d
join (select e.dept_id, count(e.dept_id) as total_emp
      from employees as e
      group by dept_id) as dept_people_count
on d.dept_id = dept_people_count.dept_id
where dept_people_count.total_emp < 3;
```

	dept_name	total_emp
1	IT	2
2	Human Resources	1
3	Finance	1

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

Query:

```
select d.dept_name, dept_people_count.total_emp
from departments as d
join (select e.dept_id, count(e.dept_id) as total_emp
      from employees as e
      group by dept_id) as dept_people_count
on d.dept_id = dept_people_count.dept_id
```

	dept_name	total_emp
1	Sales	3
2	Marketing	3
3	IT	2
4	Human Resources	1
5	Finance	1

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

Query:

```
select d.dept_name, dept_salary_count.total_salary
from departments as d
join (select e.dept_id, sum(e.salary) as total_salary
      from employees as e
      group by dept_id) as dept_salary_count
on d.dept_id = dept_salary_count.dept_id
```

	dept_name	total_salary
1	Sales	165000
2	Marketing	180000
3	IT	130000
4	Human Resources	50000
5	Finance	60000