SQL TASK 2 – TABLES & INSERT STATEMENTS

1. Departments Table

```
create table departments(
dept_id int primary key,
dept_name varchar(100)
);

insert into departments values
(1, 'Human Resources'),
(2, 'Engineering'),
(3, 'Marketing');
```

2. Employees Table

```
create table employees(
emp_id int primary key,
emp_name varchar(100),
dept_id int,
salary int
);

insert into employees values
(101, 'Amit Sharma', 1, 36000),
(102, 'Neha Reddy', 2, 45000),
(103, 'Faizan Ali', 2, 48000),
(104,'Divya Mehta',3,35000),
(105, 'Ravi verma', NULL, 28000);
```

3. JOIN – Based Questions

1. Show all employees with their department names.

```
select e.emp_name, d.dept_name from   departments d inner join employees e on
e.dept_id = d.dept_id;
```

2. List employees who do not belong to any department

```
select e.emp_name from employees e left  join departments d on e.dept_id =
d.dept_id where d.dept_id is null;
```

3. Display the total number of employees in each department.

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

3. Show departments with no employees.

select d.dept_name from employees e right join departments d on e.dept_id = d.dept_id where e.emp_id is null;

4. List employee names and department names for those who earn more than 40000

select e.emp_name, d.dept_name from employees e join departments d on e.dept_id=d.dept_id where e.salary>40000;