

# Aviral Tanwar

## WNS Assignment: SQL

Aviral Tanwar

**Q. Count of employees by department (including all 9)**

**A.**

```
SELECT d.Department_Name, COUNT(*) AS Employee_Count
FROM Employee e
INNER JOIN Department d ON e.Department_id = d.Department_id
GROUP BY d.Department_id, d.Department_Name;
```

### Output

```
IT|3
HR|3
payroll|2
```

```
[Execution complete with exit code 0]
```

**Q. Highest salary by department with employee name**

**A.**

```
SELECT Department.Department_Name,
       Employee.Emp_Name,
       Employee.Salary AS Highest_Salary
FROM Employee
INNER JOIN Department ON Employee.Department_id = Department.Department_id
WHERE (Employee.Department_id, Employee.Salary) IN
      (SELECT Department_id, MAX(Salary)
       FROM Employee)
```

GROUP BY Department\_id);

## Output

```
payroll|Rajan|30000
```

```
IT|Ram|7000
```

```
HR|Paul|6000
```

```
[Execution complete with exit code 0]
```

**Q. Total salary paid by department and overall total salary paid**

**A.**

```
SELECT d.Department_Name, SUM(e.Salary) AS Department_Salary_Total
FROM Employee e
INNER JOIN Department d ON e.Department_id = d.Department_id
GROUP BY d.Department_id, d.Department_Name
UNION ALL
SELECT 'Grand Total', SUM(e.Salary) AS Overall_Salary_Total
FROM Employee e;
```

## Output

```
IT|9290
```

```
HR|9500
```

```
payroll|34000
```

```
Grand Total|54790
```

```
[Execution complete with exit code 0]
```

**Q. Get the distinct email domain and their counts (e.g. Hotmail.com – 3)**

**A.**

```
SELECT SUBSTRING_INDEX(email_Address, '@', 2) AS Email_Domain,  
COUNT(*) AS Domain_Count  
FROM Employee  
GROUP BY Email_Domain;
```

## Output

```
Email_Domain    Domain_Count  
Naved@gmail.com 1  
Atul@hotmail.com      1  
Raja@hotmail.com      1  
Akash@Outlook.com     1  
Balam@Outlook.com     1  
Rajan@Outlook.com     1  
Ravi@gmail.com   1  
Paul@gmail.com   1  
Ram@hotmail.com  1
```

```
[Execution complete with exit code 0]
```

**Q. Name of each employer's manager**

**A.**

```
SELECT e.Emp_Name, m.Emp_Name AS Manager_Name  
FROM Employee e  
LEFT JOIN Employee m ON e.Manager_id = m.Emp_id;
```

## Output

Emp_Name	Manager_Name
Naved	Rajan
Atul	Rajan
Raja	Rajan
Akash	Akash
Balam	Rajan
Rajan	Rajan
Ravi	Balam
Paul	Balam
Ram	Akash

[Execution complete with exit code 0]

**Q. Generate a replica of the Employee table structure without duplicating the data within it using a single SQL statement. A.**

```
CREATE TABLE Employee_Replica (  
  Emp_Name VARCHAR(50),  
  Emp_id INT PRIMARY KEY,  
  Department_id INT,  
  Manager_id INT, Salary DECIMAL(10,2),  
  email_Address VARCHAR(100)  
);
```