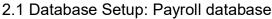
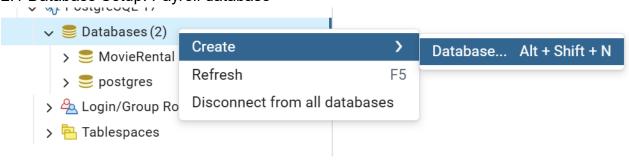
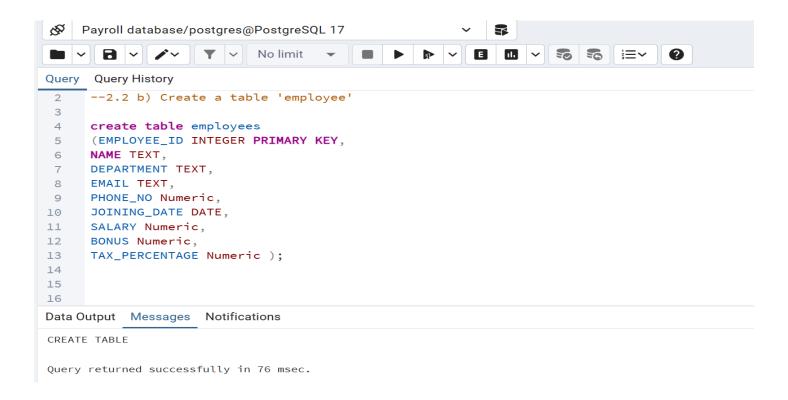
Task 2: Project: Employee Payroll Management System (PostgreSQL)

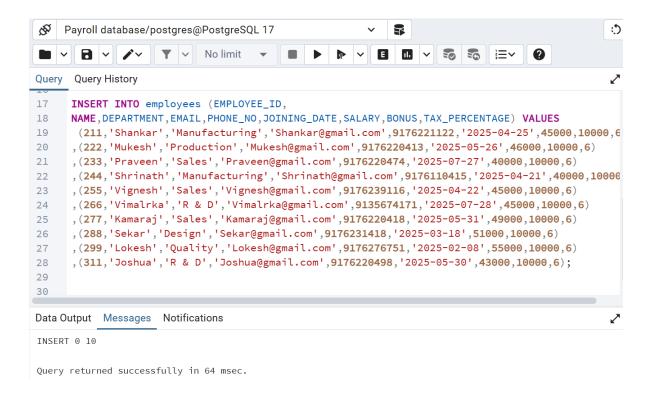




2.1 B) Create a table **employee** with columns: EMPLOYEE\_ID (integer), NAME (text), DEPARTMENT (text), EMAIL (text), PHONE\_NO (numeric), JOINING\_DATE (date), SALARY (numeric), BONUS (numeric), TAX PERCENTAGE (numeric).

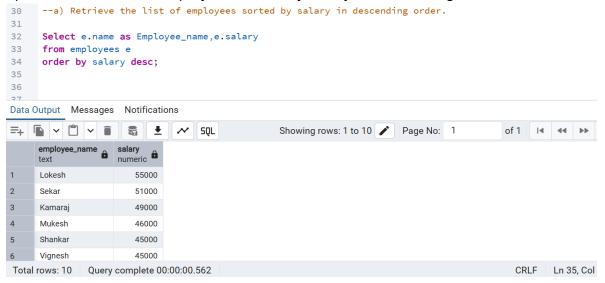


2.2 Data Entry: Insert 10 sample employee records.

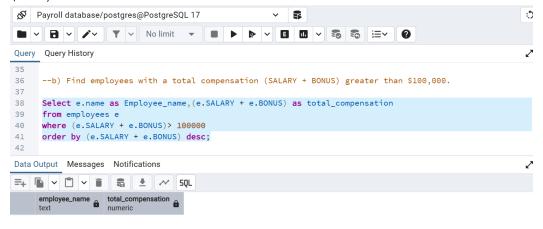


## 2.3 Payroll Queries:

a) Retrieve the list of employees sorted by salary in descending order.



2.3 B) b) Find employees with a total compensation (SALARY + BONUS) greater than \$100,000.



2.3 c) Update the bonus for employees in the 'Sales' department by 10%.

```
--for updating the value in table

UPDATE employees SET bonus = bonus * 1.10

where department = 'Sales';

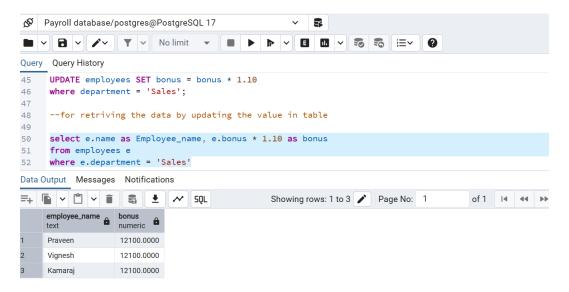
Data Output Messages Notifications

UPDATE 3

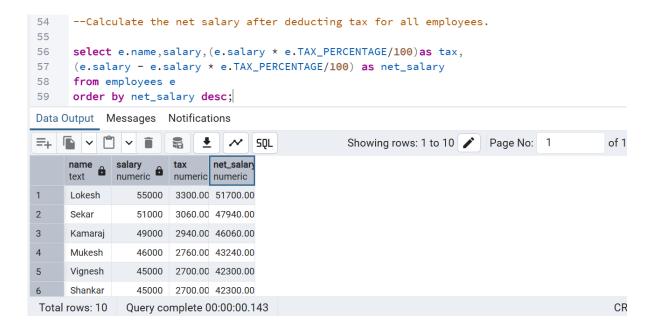
Query returned successfully in 128 msec.
```

2.3 c) Update the bonus for employees in the 'Sales' department by 10%.

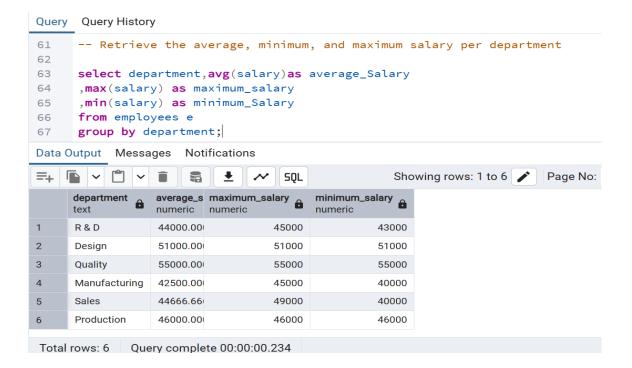
--for retrieving the data by updating the value in table



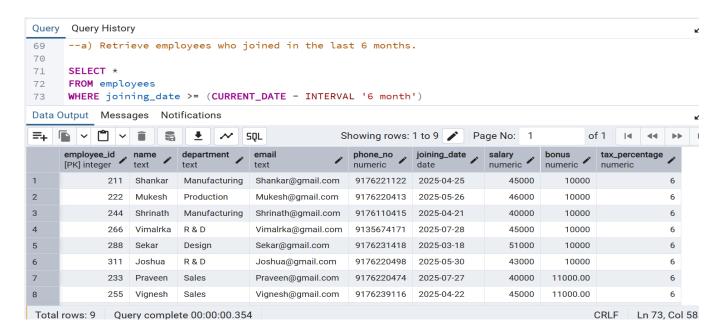
2.3 d) Calculate the net salary after deducting tax for all employees.



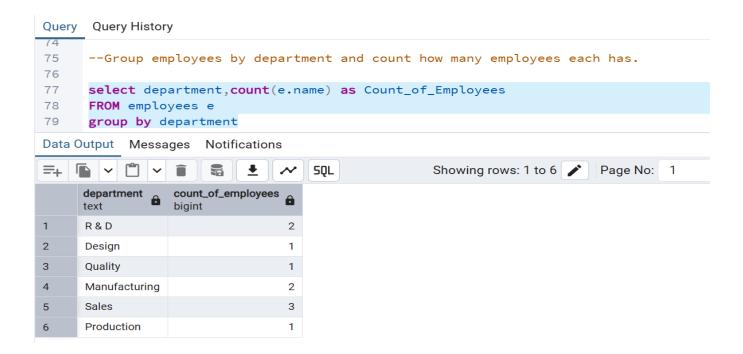
2.3 e) Retrieve the average, minimum, and maximum salary per department.



a) Retrieve employees who joined in the last 6 months.



2.4 b) Group employees by department and count how many employees each has.



2.4 c) Find the department with the highest average salary.

```
--Find the department with the highest average salary.
81
82
      select department, avg(salary) As average_salary
83
      FROM employees e
84
      group by department
85
      order by average_salary desc
86
      limit 1;
87
Data Output Messages
                      Notifications
=+
                                      SQL
                                                       Showing rows: 1 to 1
                                                                               Page
     department
                  average_salary
     text
                  numeric
     Quality
                  55000.00000000000
```

2.4 D) Identify employees who have the same salary as at least one other employee.

