EMPLOYEE MANAGEMENT SYSTEM

1.

QUERY

SELECT EmployeeID, SUM(SalaryAmount) AS totalsalary FROM Salary GROUP BY EmployeeID ORDER BY totalsalary desc;

OUTPUT:

2.

QUERY:

SELECT DepartmentName, COUNT(*) AS EmployeeCount FROM Employee

JOIN Department ON Employee.DepartmentID = Department.DepartmentID

GROUP BY DepartmentName;

OUTPUT:

Data Output | Messages | Notifications

	departmentname character varying (100)	employeecount bigint
1	Marketing	1
2	Operations	1
3	Administration	1
4	Finance	1
5	Information Technology	1
6	Human Resources	1
7	Research and Development	1
8	Quality Assurance	1
9	Sales	1
10	Customer Service	1

Total rows: 10 of 10 | Query complete 00:00:00.051

3.

QUERY

SELECT * from Employee where DepartmentID=1;

Data Output | Messages | Notifications

	employeeid [PK] integer	firstname character varying (50)	lastname character varying (50)	email character varying (100)	phonenumber character varying (15)	hiredate date	departmentid integer
1	1	Amit	Sharma	amit.sharma@example.com	9876543210	2023-10-01	1

Google Chrome

Total rows: 1 of 1 | Query complete 00:00:00.078

4.

QUERY

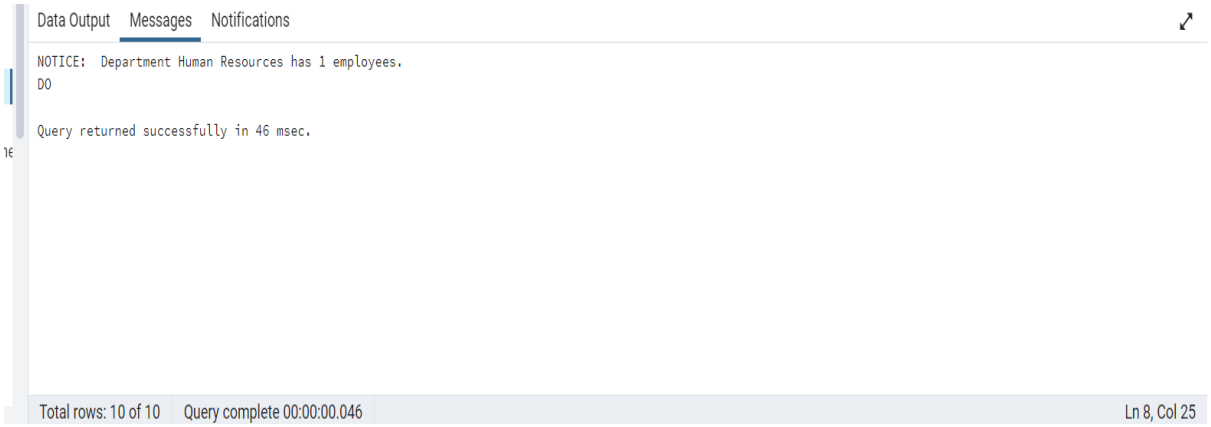
```
DO $$
BEGIN
   -- Declare variables
   DECLARE
      employee_count INT;
      department_name VARCHAR(100);

   -- Initialize variables
   employee_count := 0;
   department_name := '';

   -- Get the count of employees in a specific department
   SELECT COUNT(*) INTO employee_count FROM Employee WHERE
DepartmentID = 1;

   -- Get the name of the department
   SELECT DepartmentName INTO department_name FROM Department
WHERE DepartmentID = 1;

   -- Display the result
   RAISE NOTICE 'Department % has % employees.', department_name,
employee_count;
END $$;
```



5.

QUERY

CREATE OR REPLACE FUNCTION insert_employee(first_name VARCHAR, last_name VARCHAR, email VARCHAR, hire_date DATE, department_id INT)

RETURNS VOID AS $$

BEGIN

INSERT INTO Employee (FirstName, LastName, Email, HireDate, DepartmentID)

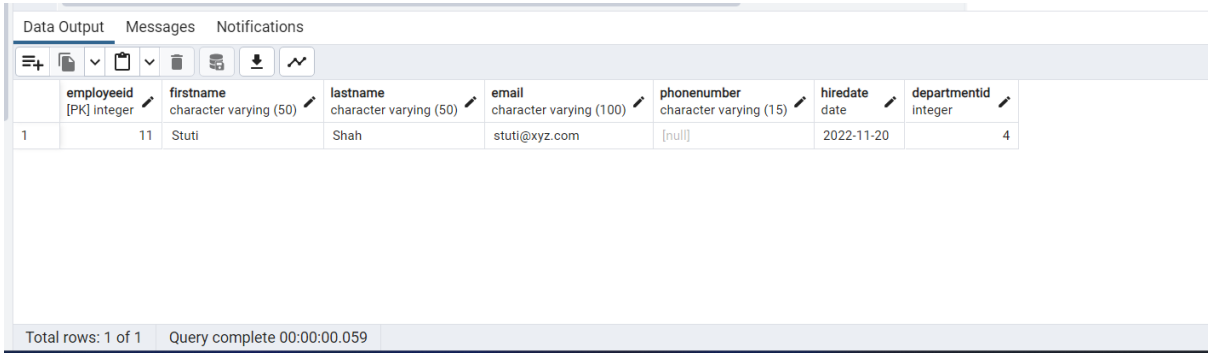
VALUES (first_name, last_name, email, hire_date, department_id);

END;

$$ LANGUAGE plpgsql;

SELECT * FROM Employee where EmployeeID=11;

OUTPUT :

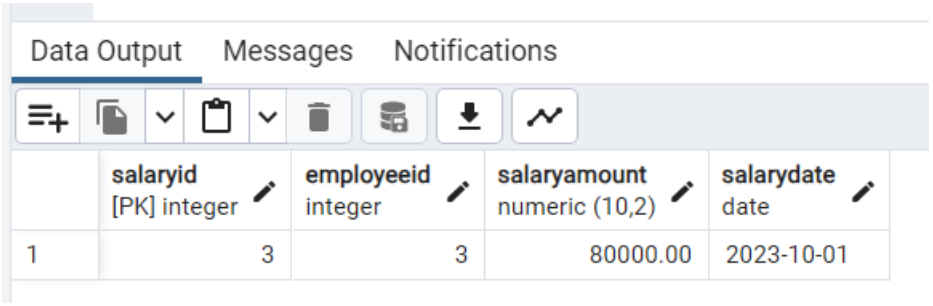


6.

QUERY

```
CREATE OR REPLACE PROCEDURE update_salary(
    IN employee_id INT,
    IN new_salary DOUBLE
)
LANGUAGE plpgsql
AS $$
BEGIN
    UPDATE Salary SET SalaryAmount = new_salary WHERE EmployeeID = employee_id;
END;
$$;
CALL update_salary(3,80000);
```

OUTPUT :



Data Output | Messages | Notifications

	salaryid [PK] integer	employeeid integer	salaryamount numeric (10,2)	salarydate date
1	3	3	80000.00	2023-10-01

7.

QUERY

```
        DO
$$
DECLARE
  display_details CURSOR FOR SELECT FirstName,LastName,HireDate FROM
Employee WHERE EmployeeID=9;
  f_name Employee.FirstName%type;
  l_name Employee.LastName%type;
  h_date Employee.HireDate%type;
BEGIN
  OPEN display_details;
  LOOP
    FETCH display_details INTO f_name,l_name,h_date;
          EXIT WHEN NOT FOUND;
          RAISE NOTICE 'First name : % , Last name : % , Hire Date :
%',f_name,l_name,h_date;
        END LOOP;
        CLOSE display_details;
```

END;

$$

OUTPUT :

Data Output | Messages | Notifications

```
NOTICE:  First name : Anita , Last name : Shukla , Hire Date : 2023-10-05
DO

Query returned successfully in 63 msec.
```

8.

QUERY

SELECT Employee.FirstName, Employee.LastName, Employee.Email, Department.DepartmentName

FROM Employee

INNER JOIN Department ON Employee.DepartmentID = Department.DepartmentID;

OUTPUT :

Data Output | Messages | Notifications

	firstname character varying (50)	lastname character varying (50)	email character varying (100)	departmentname character varying (100)
1	Amit	Sharma	amit.sharma@example.com	Human Resources
2	Priya	Patel	priya.patel@example.com	Finance
3	Rahul	Gupta	rahul.gupta@example.com	Marketing
4	Stuti	Shah	stuti@xyz.com	Information Technology
5	Sneha	Singh	sneha.singh@example.com	Information Technology
6	Rajesh	Yadav	rajesh.yadav@example.com	Sales
7	Neha	Verma	neha.verma@example.com	Research and Development
8	Kiran	Pandey	kiran.pandey@example.com	Customer Service

Total rows: 11 of 11 | Query complete 00:00:00.063

9.

QUERY

```
CREATE VIEW ApprovedLeaveRequests AS
SELECT LeaveRequest.*, Employee.FirstName, Employee.LastName
FROM LeaveRequest
JOIN Employee ON LeaveRequest.EmployeeID = Employee.EmployeeID
WHERE LeaveRequest.Status = 'Approved';
Select *  from ApprovedLeaveRequests;
```

OUTPUT :

Data Output | Messages | Notifications

	leaverequestid integer	employeeid integer	leavestartdate date	leaveenddate date	leavetype character varying (50)	status character varying (50)	firstname character varying (50)	lastname character varying (50)
1	3	3	2023-10-08	2023-10-09	Personal Leave	Approved	Rahul	Gupta
2	6	6	2023-10-15	2023-10-18	Vacation	Approved	Neha	Verma
3	8	8	2023-10-20	2023-10-21	Sick Leave	Approved	Vikram	Mishra

10.

QUERY

```
SELECT * FROM Employee WHERE EmployeeID IN (SELECT EmployeeID FROM
LeaveRequest WHERE Status = 'Pending');
```

OUTPUT :

Data Output | Messages | Notifications

	employeeid [PK] integer	firstname character varying (50)	lastname character varying (50)	email character varying (100)	phonenumber character varying (15)	hiredate date	departmentid integer
1	4	Sneha	Singh	sneha.singh@example.com	6543210987	2023-10-02	4
2	2	Priya	Patel	priya.patel@example.com	8765432109	2023-10-01	2
3	10	Ravi	Kumar	ravi.kumar@example.com	0987654321	2023-10-05	10
4	9	Anita	Shukla	anita.shukla@example.com	1098765432	2023-10-05	9
5	7	Kiran	Pandey	kiran.pandey@example.com	3210987654	2023-10-04	7
6	1	Amit	Sharma	amit.sharma@example.com	9876543210	2023-10-01	1