

## From the above given tables perform the following queries:

## Part - A

1. Create a stored procedure that takes department name as an input and returns a table with all workers working in that department.

2. Create procedure that takes department name & designation name as input and returns a table with worker's first name, salary, joining date & department name.

```
CREATE PROCEDURE pr_workers_by_department_and_designation
      @DepartmentName VARCHAR(100),
      @DesignationName VARCHAR(100)
AS
BEGIN
SELECT Person.FirstName,
       Person.Salary,
       Person Joining Date,
       Department.DepartmentName
FROM Person
INNER JOIN Department
ON Person.DepartmentID = Department.DepartmentID
INNER JOIN Designation
ON Person.DesignationID = Designation.DesignationID
WHERE Department.DepartmentName = @DepartmentName
       Designation.DesignationName = @DesignationName;
END;
EXEC pr_workers_by_department_and_designation 'Admin','Welder'
```



3. Create a Procedure that takes the first name as an input parameter and display all the details of the worker with their department & designation name.

```
CREATE PROCEDURE pr_display_all_info
@FirstName varchar(100)
AS
BEGIN
SELECT Person.WorkerID,
       Person.FirstName,
       Person.LastName.
       Person.JoiningDate,
       Person.Salary,
       Department.DepartmentName,
       Designation.DesignationName
FROM Person
INNER JOIN Department
ON Person.DepartmentID = Department.DepartmentID
INNER JOIN Designation
ON Person DesignationID = Designation DesignationID
WHERE Person.FirstName = @FirstName
END;
EXEC pr_display_all_info 'Rahul'
```

4. Create Procedure which displays department wise maximum, minimum & total salaries.

```
AS
BEGIN
SELECT Department.DepartmentName,
MAX(Person.Salary) AS MaxSalary,
MIN(Person.Salary) AS MinSalary,
SUM(Person.Salary) AS TotalSalry
```

CREATE PROCEDURE pr\_department\_wise\_salary

FROM Person

INNER JOIN Department

ON Person DepartmentID = Department DepartmentID

**GROUP BY Department.DepartmentName** 

**END** 

EXEC pr\_department\_wise\_salary

5. Create Procedure which displays designation wise maximum, minimum & total salaries.

```
CREATE PROCEDURE pr_designation_wise_salary
```

AS

**BEGIN** 

SELECT Designation. DesignationName,



```
MAX(Person.Salary) AS MaxSalary,
MIN(Person.Salary) AS MinSalary,
SUM(Person.Salary) AS TotalSalry
FROM Person
INNER JOIN Designation
ON Person.DesignationID = Designation.DesignationID
GROUP BY Designation.DesignationName
END

EXEC pr_designation_wise_salary
```

## Part - B

1. Create a Stored Procedure to Calculate Total Salary Expense.

```
CREATE PROCEDURE pr_total_salary_Employees
AS
BEGIN
SELECT SUM(Emp_Salary) as TOTALSALARY
FROM Employees
END

EXEC pr_total_salary_Employees
```

2. Create a Stored Procedure to Get Employees with the Longest Tenure.

```
CREATE PROCEDURE pr_earlier_date_of_employees

AS

BEGIN

DECLARE @EarlierDate Date

SELECT @EarlierDate = MIN(Hire_Date) FROM Employees

SELECT * FROM Employees WHERE Hire_Date = @EarlierDate

END

EXEC pr_earlier_date_of_employees
```

3. Create a Stored Procedure to Calculate the Total Number of Employees in Each Department.

```
CREATE PROCEDURE pr_Total_employee_Eachdepartment
AS
BEGIN

SELECT Department, SUM(Emp_ID)

FROM Employees

GROUP BY Department
END
```



EXEC pr\_Total\_employee\_Eachdepartment

4. Create a Stored Procedure to Calculate the Average Salary for Each Department.

```
CREATE PROCEDURE pr_averagesalary_employee_Eachdepartment
AS
BEGIN

SELECT Department, AVG(Emp_Salary)
FROM Employees
GROUP BY Department
END
```

## Part - C

5. Create a Stored Procedure to Calculate Average Salary in a Department.

```
CREATE PROCEDURE CalculateAverageSalaryByDepartment
@DepartmentName VARCHAR(50)
AS
BEGIN
SELECT Department, AVG(Emp_Salary) AS AverageSalary
FROM Employees
WHERE Department = @DepartmentName
GROUP BY Department
END;
```

EXEC pr\_averagesalary\_employee\_Eachdepartment

EXEC CalculateAverageSalaryByDepartment 'IT'

6. Create a Stored Procedure to Generate Monthly Salary Report.

```
CREATE PROCEDURE GenerateMonthlySalaryReport AS
BEGIN
```

```
- Generate the SALARY Report

SELECT Emp_ID,

Emp_Name,

Department,

Emp_Salary AS Annual_Salary,

CAST(Emp_Salary / 12 AS DECIMAL(10,2)) AS Monthly_Salary,

Hire_Date

FROM Employees

ORDER BY Department, Emp_Name;

END
```

**EXEC** GenerateMonthlySalaryReport



7. Create a Stored Procedure to Get Highest Paid Employee.

```
CREATE PROCEDURE pr_higest_paid_salary
AS
BEGIN
SELECT * FROM Employees
WHERE Emp_Salary = (SELECT MAX(Emp_Salary) FROM Employees)
END

EXEC pr_higest_paid_salary
```

8. Create a Stored Procedure to Get Employees Hired in a Specific Year.

EXEC pr\_employee\_hire\_specific\_year 2021

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