

Stored Procedures (Lab - 2)

1. All tables Insert

```
a. Insert into Department table
CREATE PROCEDURE PR_Department_Insert
      @DepartmentID
                          int.
      @DepartmentName varchar(100)
AS
BEGIN
      INSERT INTO Department
             DepartmentID,
             DepartmentName
      VALUES
             @DepartmentID,
             @DepartmentName
END
b. Insert into Designation table
CREATE PROCEDURE PR_Designation_Insert
      @DesignationID
                          int,
      @DesignationName varchar(100)
AS
BEGIN
      INSERT INTO Designation
      (
             DesignationID,
             DesignationName
      VALUES
             @DesignationID,
             @DesignationName
      )
END
c. Insert into Person table
CREATE PROCEDURE PR_PERSON_Insert
      @FirstName varchar(50),
      @LastName varchar(50),
      @Salary
                   decimal(8,2),
      @JoiningDate
                          datetime,
      @DepartmentID
                          int,
      @DesignationID
                          int
```



```
AS
   BEGIN
         INSERT INTO Person
                FirstName,
                LastName,
                Salary,
                JoiningDate,
                DepartmentID,
                DesignationID
         VALUES
                @FirstName,
                @LastName,
                @Salary ,
                @JoiningDate,
                @DepartmentID,
                @DesignationID
   END
2. All tables Update
   a. Update Department table
   CREATE PROCEDURE PR_Department_Update
         @DepartmentID
                             int,
         @DepartmentName varchar(100)
   AS
   BEGIN
         UPDATE Department
         SET
                DepartmentName = @DepartmentName
         WHERE DepartmentID = @DepartmentID
   END
   b. Update Designation table
   CREATE PROCEDURE PR_Designation_Update
         @DesignationID
                             int,
         @DesignationName varchar(100)
   AS
   BEGIN
         UPDATE Designation
                DesignationName = @DesignationName
         WHERE DesignationID = @DesignationID
   END
```



c. Update Person table

```
CREATE PROCEDURE PR_Person_Update
          @WorkerID
                             int,
          @FirstName
                             varchar(100),
          @LastName
                             varchar(100),
          @Salary
                             decimal(8,2),
         @JoiningDate
                             datetime,
         @DepartmentID
                             int.
         @DesignationID
                             int
   AS
   BEGIN
         UPDATE Person
         SET
                FirstName = @FirstName,
                LastName = @LastName,
                Salary = @Salary,
                JoiningDate = @JoiningDate,
                DepartmentID = @DepartmentID,
                DesignationID = @DesignationID
         WHERE WorkerID = @WorkerID
   END
3. All tables Delete
   a. Delete from Department table
   CREATE PROCEDURE PR_Department_Delete
         @DepartmentID
                             int
   AS
   BEGIN
         DELETE FROM Department
         WHERE DepartmentID = @DepartmentID
   END
   b. Delete from Designation table
   CREATE PROCEDURE PR_Designation_Delete
          @DesignationID
                             int
   AS
   BEGIN
         DELETE FROM Designation
         WHERE DesignationID = @DesignationID
   END
   c. Delete from Person table
   CREATE PROCEDURE PR_Person_Delete
          @WorkerID
   AS
   BEGIN
         DELETE FROM Person
```



```
END
4. All tables SelectPK
   a. Select from Department table by Primary key
   CREATE PROCEDURE PR_Department_SelectPK
         @DepartmentID
                             int
   AS
   BEGIN
         SELECT
                DepartmentID,
                DepartmentName
         FROM Department
         WHERE DepartmentID = @DepartmentID
   END
   b. Select from Designation table by Primary key
   CREATE PROCEDURE PR_Designation_SelectPK
         @DesignationID
   AS
   BEGIN
         SELECT
                DesignationID,
                DesignationName
         FROM Designation
         WHERE DesignationID = @DesignationID
   END
   c. Select from Person table by Primary key
   CREATE PROCEDURE PR_Person_SelectPK
         @WorkerID
                      int
   AS
   BEGIN
         SELECT
                WorkerID,
                FirstName,
                LastName,
                Salary,
                JoiningDate,
                DepartmentID,
                DesignationID
         FROM Person
         WHERE WorkerID = @WorkerID
```

WHERE WorkerID = @WorkerID

- 5. All tables SelectAll (If foreign key is available than do join and take columns on select list)
 - a. Select All from Department table

CREATE PROCEDURE PR_Department_SelectAll

END



```
AS
       BEGIN
             SELECT DepartmentID, DepartmentName
             FROM Department
       END
      b. Select All from Designation table
       CREATE PROCEDURE PR_Designation_SelectAll
       AS
       BEGIN
             SELECT DesignationID, DesignationName
             FROM Designation
       END
      c. Select All from Person table
       CREATE PROCEDURE PR_Person_SelectAll
       AS
       BEGIN
             SELECT
                    Person.WorkerID,
                    Person.FirstName.
                    Person.LastName,
                    Person.Salary,
                    Person.JoiningDate,
                    Department.DepartmentName,
                    Designation.DesignationName
             FROM Person
             LEFT OUTER JOIN Department
             ON Person.DepartmentID=Department.DepartmentID
             LEFT OUTER JOIN Designation
             ON Person DesignationID=Designation DesignationID
       END
Stored Procedures (Lab - 3)
   1. Create Procedure that show detail of first 3 persons.
      CREATE PROCEDURE PR_SelectFirstThree_Person
      AS
      BEGIN
             SELECT TOP 3
                    Person.WorkerID,
                    Person.FirstName,
                    Person.LastName.
                    Person.Salary,
                    Person.JoiningDate,
```

Department.DepartmentName, Designation.DesignationName

FROM Person



```
LEFT OUTER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
LEFT OUTER JOIN Designation
ON Person.DesignationID=Designation.DesignationID
```

END

2. Create Procedure that takes department dame as input and returns a table with all workers working in that department.

3. 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_Person_SelectByDesignationNameDepartmentName

@DepartmentName varchar(200),

@DesignationName varchar(250)

AS

BEGIN

SELECT

Person.FirstName,

Person.Salary,

Person.JoiningDate,

Department.DepartmentName

FROM Person

LEFT OUTER JOIN DepartmentID = Person.DepartmentID

LEFT OUTER JOIN Designation
```

ON Designation.DesignationID = Person.DesignationID

WHERE DesignationName = @DesignationName

AND DepartmentName = @DepartmentName

END

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

```
CREATE PROCEDURE PR_Person_SelectByFirstName
@FirstName varchar(200)
AS
```



BEGIN SELECT

Person.WorkerID, Person.FirstName, Person.LastName, Person.Salary,

Person.JoiningDate,

Department. Department Name,

Designation.DesignationName

FROM Person

LEFT OUTER JOIN Department

ON Department.DepartmentID = Person.DepartmentID

LEFT OUTER JOIN Designation

ON Designation.DesignationID = Person.DesignationID

WHERE FirstName = @FirstName

END

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

CREATE PROCEDURE PR_Person_MaxMinTotalSalary_DepartmentWise

AS

BEGIN

SELECT

Department. Department Name,

MAX(Person.salary) as MaxSalary,

MIN(Person.salary) as MinSalary,

SUM(Person.salary) as TotalSalary

FROM Person

INNER JOIN Department

ON Department.DepartmentID = Person.DepartmentID

GROUP BY Department.DepartmentName

END

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

CREATE PROCEDURE PR_Person_MaxMinTotalSalary_DesignationWise

AS

BEGIN

SELECT

Designation.DesignationName,

MAX(Person.salary) as MaxSalary,

MIN(Person.salary) as MinSalary,

SUM(Person.salary) as TotalSalary

FROM Person

INNER JOIN Designation

ON Designation.DesignationID = Person.DesignationID

GROUP BY Designation. DesignationName

END