**Project Description:** **Leave Application and Approval System Test**

**Working Of The Project**

First we uses the username and password for login after the login validation if the login success there is returning a token. The token for authentication purpose. When one user Is login to system or application the token are helpful to check who is consuming the application. After login success the employee can see the available leave and he/she can apply the leave to their wanted date. After the submission of leave the manager can the authorised to approve or reject that applied leave. If the employee request for leave is approved the employee can take the leave. If the mananger reject the leave the employee can’t take the leave on that day.

start

Requesting Leave

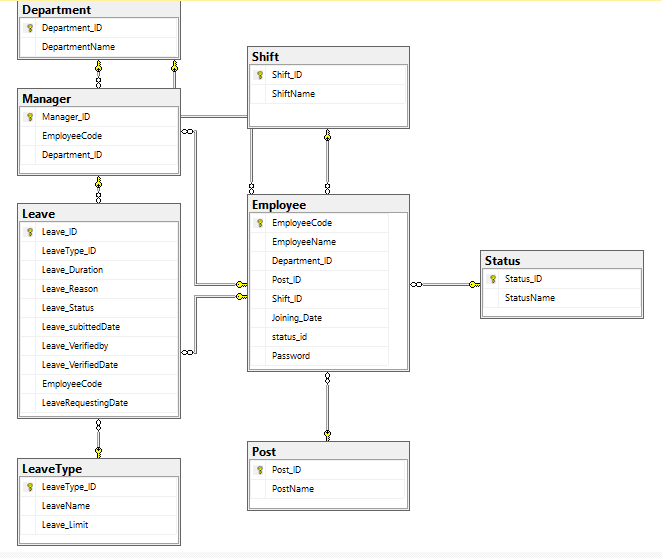
Evaluating Leave Application

Rejected Approved

Checking leave status

Checking the status

Take leave



**Used Database**

CREATE DATABASE LeaveApplicationSystem;

**Used Tables**

CREATE TABLE Department (

Department\_ID int IDENTITY(1, 1) NOT NULL PRIMARY KEY,

DepartmentName varchar(25)

);

CREATE TABLE Shift (

Shift\_ID int IDENTITY(1, 1) NOT NULL PRIMARY KEY,

ShiftName varchar(25)

);

CREATE TABLE Post (

Post\_ID int IDENTITY(1, 1) NOT NULL PRIMARY KEY,

PostName varchar(25)

);

CREATE TABLE Status (

Status\_ID int IDENTITY(1, 1) NOT NULL PRIMARY KEY,

StatusName varchar(25)

);

CREATE TABLE LeaveType (

LeaveType\_ID int IDENTITY(1, 1) NOT NULL PRIMARY KEY,

LeaveName varchar(25),

);

CREATE TABLE Leave (

Leave\_ID int IDENTITY(1, 1) NOT NULL PRIMARY KEY,

LeaveType\_ID int FOREIGN KEY REFERENCES LeaveType(LeaveType\_ID),

Leave\_Duration int,

Leave\_Reason Varchar(50),

Leave\_Status int,

Leave\_subittedDate date,

Leave\_Verifiedby int FOREIGN KEY REFERENCES Manager(Manager\_ID),

Leave\_VerifiedDate date

);

CREATE TABLE Employee (

EmployeeCode int IDENTITY(1, 1) PRIMARY KEY,

EmployeeName varchar(25),

Department\_ID int,

Post\_ID int,

Shift\_ID int,

Joining\_Date date,

Status\_ID int,

FOREIGN KEY (Department\_ID) REFERENCES Department(Department\_ID),

FOREIGN KEY (Post\_ID) REFERENCES Post(Post\_ID),

FOREIGN KEY (Status\_ID) REFERENCES Status(Status\_ID),

FOREIGN KEY (Shift\_ID) REFERENCES Shift(Shift\_ID)

);

CREATE TABLE Manager (

Manager\_ID int IDENTITY(1, 1) NOT NULL PRIMARY KEY,

EmployeeCode int FOREIGN KEY REFERENCES Employee(EmployeeCode),

Department\_ID int FOREIGN KEY REFERENCES Department(Department\_ID)

);

**Used Procedure**

USE [LeaveApplicationSystem]

GO

/\*\*\*\*\*\* Object: StoredProcedure [dbo].[EmployeeLeaveDetails] Script Date: 09-06-2024 18:11:01 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

-- =============================================

-- Author: Lima K M

-- Create date: <Create Date,,>

-- Description: <Description,,>

-- =============================================

ALTER PROCEDURE [dbo].[EmployeeLeaveDetails]

@EmployeeName varchar(25)

AS

BEGIN

SELECT

lt.LeaveType\_ID,

lt.LeaveName,

lt.Leave\_Limit - COALESCE(COUNT(l.Leave\_ID), 0) AS AvailableLeave,

COUNT(l.Leave\_ID) AS LeaveTakenCount

FROM

LeaveType lt

LEFT JOIN

Leave l ON lt.LeaveType\_ID = l.LeaveType\_ID AND l.EmployeeCode = (SELECT e.EmployeeCode FROM Employee e WHERE e.EmployeeName = @EmployeeName)

GROUP BY

lt.LeaveType\_ID,

lt.LeaveName,

lt.Leave\_Limit;

END

**Test The Project**

For testing purpose using the POSTMAN. For example . The PostMan is mostly used for testing APIs. In this I am testing the leave type list of provided leave to employee.

