-- Creating the Roles table

CREATE TABLE Roles (

RoleID INT PRIMARY KEY IDENTITY,

RoleName VARCHAR(100),

Description TEXT,

ModifyDate DATETIME NOT NULL DEFAULT GETDATE(),

);

-- Creating the Employees table

CREATE TABLE Employees (

EmpID INT PRIMARY KEY IDENTITY,

FirstName VARCHAR(100) NOT NULL,

LastName VARCHAR(100) NOT NULL,

Email VARCHAR(100) NOT NULL,

Phone bigint NOT NULL,

Address varchar(200) NOT NULL,

EmpRegistrationId VARCHAR(60) NOT NULL

RoleID INT,

IsActive BOOLEAN,

LastUpdated TIMESTAMP,

ModifyDate DATETIME NOT NULL DEFAULT GETDATE(),

FOREIGN KEY (RoleID) REFERENCES Roles(RoleID)

);

-- Creating the Projects table

CREATE TABLE Projects (

ProjectID INT PRIMARY KEY IDENTITY ,

ProjectName VARCHAR(255) NOT NULL,

Description TEXT,

StartDate DATE NOT NULL,

EndDate DATE NOT NULL,

RoleId int,

EmpId int,

IsActive BOOLEAN NOT NULL,

ModifyDate DATETIME NOT NULL DEFAULT GETDATE(),

foreign key(RoleId) REFERENCES Roles(RoleId),

foreign key(EmpId) REFERENCES Employees(EmpId)

);

CREATE TABLE ProjectBranches (

BranchID INT PRIMARY KEY IDENTITY,

ProjectID INT NOT NULL,

BranchName VARCHAR(255) NOT NULL,

CreatedDate DATETIME NOT NULL DEFAULT GETDATE(),

IsActive BOOLEAN NOT NULL DEFAULT 1,

Description TEXT,

FOREIGN KEY (ProjectID) REFERENCES Projects(ProjectID)

);

-- Creating the ProjectsModules table

CREATE TABLE ProjectsModules (

ProModuleID INT PRIMARY KEY IDENTITY ,

ModuleName VARCHAR(255) NOT NULL,

Description TEXT,

Status int NOT NULL,

ProjectId int,

EmpId int,

RoleId int,

BranchID int,

StartDate DATE NOT NULL,

EndDate DATE NOT NULL,

ModifyDate DATETIME NOT NULL DEFAULT GETDATE(),

foreign key(ProjectId) REFERENCES Projects(ProjectID),

foreign key(EmpId) REFERENCES Employees(EmpId),

foreign key(BranchID) REFERENCES ProjectBranches (BranchID),

foreign key(RoleId) REFERENCES Roles(RoleId)

);

-- Creating the ProjectMembers table

CREATE TABLE ProjectMembers (

ProjectMemberID INT PRIMARY KEY IDENTITY,

ProjectID INT ,

EmpID INT,

RoleId int,

ProModuleId int,

ModifyDate DATETIME NOT NULL DEFAULT GETDATE(),

FOREIGN KEY (ProjectID) REFERENCES Projects(ProjectID),

FOREIGN KEY (ProModuleId) REFERENCES ProjectsModules(ProModuleID),

FOREIGN KEY (EmpID) REFERENCES Employees(EmpID),

foreign key(RoleId) REFERENCES Roles(RoleId)

);

-- Creating the ProjectActions table

CREATE TABLE ProjectActions (

ActionID INT PRIMARY KEY IDENTITY,

ProjectID INT,

ActionDescription TEXT NOT NULL,

EmpId INT,

RoleId int,

ProModuleId int,

ModifyDate DATETIME NOT NULL DEFAULT GETDATE(),

FOREIGN KEY (ProjectID) REFERENCES Projects(ProjectID),

FOREIGN KEY (EmpID) REFERENCES Employees(EmpID),

FOREIGN KEY (ProModuleId) REFERENCES ProjectsModules(ProModuleID),

foreign key(RoleId) REFERENCES Roles(RoleId)

);

-- Creating the Requests table

CREATE TABLE Requests (

RequestID INT PRIMARY KEY IDENTITY,

ProjectID INT,

ProModuleId int,

BranchID int,

Description TEXT NOT NULL,

Status INT NOT NULL DEFAULT 0,

CreatedDate DATETIME NOT NULL DEFAULT GETDATE(),

CreatedBy INT,

AssignedTo INT,

FOREIGN KEY (ProjectID) REFERENCES Projects(ProjectID),

FOREIGN KEY (CreatedBy) REFERENCES Employees(EmpID),

FOREIGN KEY (ProModuleId) REFERENCES ProjectsModules(ProModuleID),

FOREIGN KEY (AssignedTo) REFERENCES Employees(EmpID),

foreign key(BranchID) REFERENCES ProjectBranches (BranchID),

);

-- Creating the ProjectBranches table

CREATE TABLE ProjectBranches (

BranchID INT PRIMARY KEY IDENTITY,

ProjectID INT,

BranchName VARCHAR(255) NOT NULL,

RoleId int,

IsActive BOOLEAN,

foreign key(RoleId) REFERENCES Roles(RoleId),

FOREIGN KEY (ProjectID) REFERENCES Projects(ProjectID)

);