

SQL Queries for Creating the Employee Leave Management System Tables:

Roles Table:

```
CREATE TABLE Roles (  
    RoleID VARCHAR(5) NOT NULL,  
    Role VARCHAR(20) NOT NULL,  
    PRIMARY KEY (RoleID),  
    UNIQUE (Role)  
);
```

Department Table:

```
CREATE TABLE Department (  
    DeptID VARCHAR(5) NOT NULL,  
    Department VARCHAR(20) NOT NULL,  
    PRIMARY KEY (DeptID),  
    UNIQUE (Department)  
);
```

LeaveTypes Table:

```
CREATE TABLE LeaveTypes (  
    LeaveTypeID VARCHAR(5) NOT NULL,  
    LeaveTypeName VARCHAR(30) NOT NULL,  
    MaximumDaysAllowed INT NOT NULL,  
    PRIMARY KEY (LeaveTypeID),  
    UNIQUE (LeaveTypeName)  
);
```

LeaveStatus Table:

```
CREATE TABLE LeaveStatus (  
    StatusID VARCHAR(5) NOT NULL,  
    Status VARCHAR(20) NOT NULL,  
    PRIMARY KEY (StatusID),
```

UNIQUE (Status)

);

Employee Table:

CREATE TABLE Employee (

EmpID VARCHAR(5) NOT NULL,

FirstName VARCHAR(20) NOT NULL,

LastName VARCHAR(20) NOT NULL,

Gender VARCHAR(10) NOT NULL,

DoB DATE NOT NULL,

Phone BIGINT UNIQUE NOT NULL,

Email VARCHAR(50) NOT NULL,

PRIMARY KEY (EmpID),

UNIQUE (Email)

);

EmployeeDeptMap Table:

CREATE TABLE EmployeeDeptMap (

EDmID VARCHAR(5) NOT NULL,

EmpID VARCHAR(5) NOT NULL,

DeptID VARCHAR(5) NOT NULL,

JoiningDate DATE NOT NULL,

Status VARCHAR(50) NOT NULL,

PRIMARY KEY (EDmID),

FOREIGN KEY (EmpID) REFERENCES Employee(EmpID),

FOREIGN KEY (DeptID) REFERENCES Department(DeptID)

);

User Table:

CREATE TABLE User (

UserID VARCHAR(5) NOT NULL,

Username VARCHAR(20) NOT NULL,

```
Password VARCHAR(50) NOT NULL,  
Email VARCHAR(50) NOT NULL,  
PRIMARY KEY (UserID),  
UNIQUE (Username),  
UNIQUE (Email)  
);
```

UserRole Table:

```
CREATE TABLE UserRole (  
    UR_ID VARCHAR(5) NOT NULL,  
    UserID VARCHAR(5) NOT NULL,  
    EmpID VARCHAR(5) NOT NULL,  
    RoleID VARCHAR(5) NOT NULL,  
    PRIMARY KEY (UR_ID),  
    FOREIGN KEY (UserID) REFERENCES User(UserID),  
    FOREIGN KEY (EmpID) REFERENCES EmployeeDeptMap(EmpID),  
    FOREIGN KEY (RoleID) REFERENCES Roles(RoleID)  
);
```

LeaveRequests Table:

```
CREATE TABLE LeaveRequests (  
    RequestID VARCHAR(5) NOT NULL,  
    EmployeeID VARCHAR(5) NOT NULL,  
    LeaveTypeID VARCHAR(5) NOT NULL,  
    StartDate DATE NOT NULL,  
    EndDate DATE NOT NULL,  
    RequestDate DATE NOT NULL,  
    PRIMARY KEY (RequestID),  
    FOREIGN KEY (EmployeeID) REFERENCES Employee(EmpID),  
    FOREIGN KEY (LeaveTypeID) REFERENCES LeaveTypes(LeaveTypeID)  
);
```

LeaveRequestStatus Table:

```
CREATE TABLE LeaveRequestStatus (  
    RequestStatusID VARCHAR(5) NOT NULL,  
    RequestID VARCHAR(5) NOT NULL,  
    StatusID VARCHAR(5) NOT NULL,  
    PRIMARY KEY (RequestStatusID),  
    FOREIGN KEY (RequestID) REFERENCES LeaveRequests(RequestID),  
    FOREIGN KEY (StatusID) REFERENCES LeaveStatus(StatusID)  
);
```

LeaveTaken Table:

```
CREATE TABLE LeaveTaken (  
    LeaveTakenID VARCHAR(8) NOT NULL,  
    EmpID VARCHAR(5) NOT NULL,  
    LeaveTypeID VARCHAR(5) NOT NULL,  
    NoOfDaysTaken INT NOT NULL,  
    PRIMARY KEY (LeaveTakenID),  
    FOREIGN KEY (EmpID) REFERENCES Employee(EmpID),  
    FOREIGN KEY (LeaveTypeID) REFERENCES LeaveTypes(LeaveTypeID)  
);
```