CREATE DATABASE IF NOT Exists Droneoperations ;

USE Droneoperations ;

DROP TABLE IF EXISTS Assignments;

DROP TABLE IF EXISTS Maintenances;

DROP TABLE IF EXISTS Drones;

DROP TABLE IF EXISTS DroneTypes;

DROP TABLE IF EXISTS Organizations;

DROP TABLE IF EXISTS Locations;

DROP TABLE IF EXISTS Pilots;

DROP TABLE IF EXISTS Sectors;

CREATE TABLE Sectors (

SectorID INT PRIMARY KEY AUTO\_INCREMENT,

SectorName VARCHAR(55)

);

CREATE TABLE Pilots (

PilotID INT PRIMARY KEY AUTO\_INCREMENT,

FirstName VARCHAR(55),

LastName VARCHAR(55),

SectorID INT,

CallSign VARCHAR(15),

PasswordHash VARCHAR(25),

FOREIGN KEY (SectorID) REFERENCES Sectors(SectorID)

);

CREATE TABLE Locations (

LocationID INT PRIMARY KEY AUTO\_INCREMENT,

LocationName VARCHAR(100)

);

CREATE TABLE Organizations (

OrgID INT PRIMARY KEY AUTO\_INCREMENT,

OrgName VARCHAR(100),

OrgType VARCHAR(50)

);

CREATE TABLE DroneTypes (

DroneTypeID INT PRIMARY KEY AUTO\_INCREMENT,

TypeName VARCHAR(50),

DroneCategory VARCHAR(50)

);

CREATE TABLE Drones (

DroneID INT PRIMARY KEY AUTO\_INCREMENT,

DroneName VARCHAR(100),

DroneTypeID INT,

FOREIGN KEY (DroneTypeID) REFERENCES DroneTypes(DroneTypeID)

);

CREATE TABLE Maintenances (

MaintenanceID INT PRIMARY KEY AUTO\_INCREMENT,

DroneID INT,

MaintenanceDate Date,

MaintenanceDescription varchar(255),

FOREIGN KEY (DroneID) REFERENCES Drones(DroneID)

);

CREATE TABLE Assignments (

AssignmentID INT PRIMARY KEY AUTO\_INCREMENT,

AssignmentName VARCHAR(100),

OrgID INT,

LocationID INT,

MissionDate DATE,

MissionCompletion BOOLEAN,

MissionCompletionTime TIME,

Notes VARCHAR(255),

DroneID INT,

FlightTime TIME,

PilotsID INT,

FOREIGN KEY (OrgID) REFERENCES Organizations(OrgID),

FOREIGN KEY (LocationID) REFERENCES Locations(LocationID),

FOREIGN KEY (DroneID) REFERENCES Drones(DroneID),

FOREIGN KEY (PilotsID) REFERENCES Pilots(PilotID)

);