CREATE DATABASE FanshaweDroneShare;

Go

USE FanshaweDroneShare;

GO

CREATE TABLE Stations(

StationID INT IDENTITY PRIMARY KEY,

NAME NVARCHAR(20) NOT NULL,

MaxDrones INT NOT NULL,

CurrentDronesCount INT NOT NULL

);

CREATE TABLE Drones(

DroneID INT IDENTITY PRIMARY KEY,

IDMarkings VARCHAR(30) NOT NULL,

ManufactureName VARCHAR(20) NOT NULL,

Wieght INT NOT NULL,

ModelName NVARCHAR(30) NOT NULL,

SerialNumber Nvarchar(30) NOT NULL,

ManufacturedDate DATE,

StationID INT NOT NULL,

FOREIGN KEY (StationID) REFERENCES Stations(StationID)

);

CREATE TABLE Accessories (

AccessoryID INT IDENTITY PRIMARY KEY,

ManufacturerName NVARCHAR(30) NOT NULL,

Wieght INT NOT NULL,

ModelName NVARCHAR(30) NOT NULL,

SerialNumber Nvarchar(30) NOT NULL,

ManufacturedDate DATE,

StationID INT NOT NULL,

FOREIGN KEY (StationID) REFERENCES Stations(StationID)

);

CREATE TABLE Pilots(

PilotID INT IDENTITY PRIMARY KEY,

FirstName VARCHAR(20) NOT NULL,

LastName VARCHAR(20) NOT NULL,

DronePilotCertificateNumber NVARCHAR(30) NOT NULL,

SINNum VARCHAR(30) NOT NULL,

DateOfBirth DATE NOT NULL

);

CREATE TABLE Addresses (

AddressID INT IDENTITY PRIMARY KEY,

StreetAddress NVARCHAR(40) NOT NULL,

City NVARCHAR(10) NOT NULL,

Province NVARCHAR(20) NOT NULL,

PostalCode NVARCHAR(20) NOT NULL

);

--jUNCTION TABLE

CREATE TABLE PilotAddresses (

PilotAddressID INT IDENTITY PRIMARY KEY,

PilotID INT NOT NULL,

AddressID INT NOT NULL,

FOREIGN KEY (PilotID) REFERENCES Pilots(PilotID),

FOREIGN KEY (AddressID) REFERENCES Addresses(AddressID)

);

CREATE TABLE Accounts (

AccountID INT IDENTITY PRIMARY KEY,

AccountNumber NVARCHAR(50) NOT NULL UNIQUE,

OpeningDate DATE NOT NULL,

CurrentBalance DECIMAL(18, 2) NOT NULL

);

--Junction Table

CREATE TABLE PilotAccounts (

PilotAccountID INT IDENTITY PRIMARY KEY,

PilotID INT NOT NULL,

AccountID INT NOT NULL,

FOREIGN KEY (PilotID) REFERENCES Pilots(PilotID),

FOREIGN KEY (AccountID) REFERENCES Accounts(AccountID)

);

-- Create Checkouts table

CREATE TABLE Checkouts (

CheckoutID INT IDENTITY PRIMARY KEY,

PilotID INT NOT NULL,

DroneID INT Null,

AccessoryID INt Null,

CheckoutDate DATETIME NOT NULL,

ReturnDate DATETIME,

FOREIGN KEY (PilotID) REFERENCES Pilots(PilotID),

FOREIGN KEY (DroneID) REFERENCES Drones(DroneID),

FOREIGN KEY (AccessoryID) REFERENCES Accessories(AccessoryID)

);