-- Create ROLE Table

CREATE TABLE ROLE (

RoleID NUMBER PRIMARY KEY,

RoleName VARCHAR2(50)

);

-- Create DRIVER Table

CREATE TABLE DRIVER (

DriverID NUMBER PRIMARY KEY,

First\_Name VARCHAR2(30),

Last\_Name VARCHAR2(30),

Rank VARCHAR2(50),

Unit VARCHAR2(50),

LicenseNumber VARCHAR2(50),

Availability VARCHAR2(20)

);

CREATE TABLE USERS (

UserID NUMBER PRIMARY KEY,

Username VARCHAR2(50) UNIQUE,

Password VARCHAR2(50),

Mobile VARCHAR2(15),

RoleID NUMBER,

DriverID NUMBER,

FOREIGN KEY (DriverID) REFERENCES DRIVER(DriverID)

);

-- Create VEHICLE Table

CREATE TABLE VEHICLE (

BANO VARCHAR2(20) PRIMARY KEY,

Name VARCHAR2(50),

Model VARCHAR2(50),

Status VARCHAR2(30),

Class VARCHAR2(50),

VehicleCode VARCHAR2(50),

Unit VARCHAR2(50),

KM\_Reading NUMBER,

KPL NUMBER,

Availability VARCHAR2(20),

DriverID NUMBER,

FOREIGN KEY (DriverID) REFERENCES DRIVER(DriverID)

);

-- Create POL Table

CREATE TABLE POL (

POL\_ID VARCHAR2(20) PRIMARY KEY,

POL\_Grade VARCHAR2(50),

Regular\_Allocation NUMBER,

Additional\_Allocation NUMBER,

Total\_Allocation NUMBER,

Expense\_Last\_Month NUMBER,

Expense\_Running\_Month NUMBER,

Expense\_Total NUMBER,

Remaining\_Pol NUMBER

);

-- Create POL\_ISSUE Table

CREATE TABLE POL\_ISSUE (

IssueID VARCHAR2(10) PRIMARY KEY,

IssueDate DATE,

VehicleID VARCHAR2(10), -- Matches VEHICLE(BANO)

POL\_Grade VARCHAR2(50), -- Matches POL(POL\_Grade)

IssueAmount NUMBER,

POL\_ID VARCHAR2(20),

FOREIGN KEY (VehicleID) REFERENCES VEHICLE(BANO),

FOREIGN KEY (POL\_ID) REFERENCES POL(POL\_ID)

);

CREATE TABLE VDRA (

BANo VARCHAR2(20), -- Matches VEHICLE(BANO)

VDRA\_Date DATE,

Route VARCHAR2(100),

KM\_Reading NUMBER,

POL\_Used NUMBER(10, 2), -- Restrict to 10 total digits, 2 after the decimal

Tank\_State NUMBER(10, 2),

Diesel NUMBER,

Hd\_30 NUMBER,

GX\_90 NUMBER,

K2 NUMBER,

Greese NUMBER,

Break\_Fluid NUMBER,

MS\_74 NUMBER,

Octen\_100 NUMBER,

PRIMARY KEY (BANo, VDRA\_Date), -- Composite Primary Key

FOREIGN KEY (BANo) REFERENCES VEHICLE(BANO)

);

-- Create ROUTE Table

CREATE TABLE ROUTE (

RouteID VARCHAR2(10) PRIMARY KEY,

RouteName VARCHAR2(100),

Origin VARCHAR2(30),

Destination VARCHAR2(30),

Distance VARCHAR2(30)

);

-- Create DRIVER\_VEHICLE\_ROUTE Table

CREATE TABLE DRIVER\_VEHICLE\_ROUTE (

DriverVehicleRouteID VARCHAR2(15) PRIMARY KEY,

DriverID NUMBER,

VehicleID VARCHAR2(20), -- Matches VEHICLE(BANO)

RouteID VARCHAR2(10),

FOREIGN KEY (DriverID) REFERENCES DRIVER(DriverID),

FOREIGN KEY (VehicleID) REFERENCES VEHICLE(BANO),

FOREIGN KEY (RouteID) REFERENCES ROUTE(RouteID)

);

-- Create MAINTENANCE Table

CREATE TABLE MAINTENANCE (

MaintenanceID VARCHAR2(10) PRIMARY KEY,

MaintenanceDate DATE,

Details VARCHAR2(200),

Cost NUMBER,

VehicleID VARCHAR2(10), -- Matches VEHICLE(BANO)

DriverID NUMBER,

FOREIGN KEY (VehicleID) REFERENCES VEHICLE(BANO)

);

-- Create ACCIDENT Table

CREATE TABLE ACCIDENT (

AccidentID VARCHAR2(10) PRIMARY KEY,

AccidentDate DATE,

Description VARCHAR2(200),

Damage\_Cost NUMBER,

VehicleID VARCHAR2(10), -- Matches VEHICLE(BANO)

DriverID NUMBER,

FOREIGN KEY (VehicleID) REFERENCES VEHICLE(BANO),

FOREIGN KEY (DriverID) REFERENCES Driver(DriverID)

);