```
-- Section 1: Create Tables

CREATE TABLE CUSTOMERS (
    cusID       INTEGER         NOT NULL,
    Name        VARCHAR(20)     NOT NULL,
    PHONE       VARCHAR(12)     NOT NULL,
    email       VARCHAR(40)     NOT NULL,
    years        INTEGER         NOT NULL,
    CONSTRAINT pk_customers PRIMARY KEY (cusID)
);
CREATE TABLE VEHICLE(
    cusID       INTEGER       NOT NULL,
    VIN         INTEGER       NOT NULL,
    make        VARCHAR(10)   NOT NUll,
    model       VARCHAR(10)   NOT NULL,
    modYear     INTEGER       NOT NULL,
    mileage      INTEGER      NOT NULL,
    serviceInterval INTEGER  NOT NULL,
    CONSTRAINT pk_vehicle PRIMARY KEY (VIN)
);

CREATE TABLE EXISTINGCUSTOMER(
    cusID       INTEGER     NOT NULL,
    dateVisit   DATE        NOT NULL,
    timeVisit   TIME        NOT NULL,
    CONSTRAINT pk_existingCustomer PRIMARY KEY (cusID)
);

CREATE TABLE PROSPECTIVE (
    cusID       INTEGER       NOT NULL,
    status      VARCHAR(20)           ,
    CONSTRAINT pk_prospective PRIMARY KEY (cusID)
);

CREATE TABLE SPECIAL (
    specialItem     VARCHAR(20)    NOT NULL,
    EXPIRATIONDATE  DATE           NOT NULL,
    CONSTRAINT pk_special PRIMARY KEY (specialItem, EXPIRATIONDATE)
);

CREATE TABLE SPECIALINSTANCE(
    cusID              INTEGER       NOT NULL,
    lastDateContacted  DATE          NOT NULL,
    specialItem        VARCHAR(20)   NOT NULL,
    EXPIRATIONDATE     DATE          NOT NULL,
    CONSTRAINT pk_specialInstance PRIMARY KEY (cusID,specialItem,
EXPIRATIONDATE)
);

CREATE TABLE STEADY (
    cusID       INTEGER         NOT NULL,
    visitFreq   VARCHAR(10)     NOT NULL,
    loyalpoint  INTEGER                 ,
    CONSTRAINT pk_steady   PRIMARY KEY (cusID)
);

CREATE TABLE PREMIER (
```

```
    cusID       INTEGER    NOT NULL,
    annualFee    DOUBLE     NOT NULL,
    CONSTRAINT pk_premeir   PRIMARY KEY (cusID)
);

CREATE TABLE CORPORATION (
    cusID        INTEGER      NOT NULL,
    CONSTRAINT pk_CORPORATION   PRIMARY KEY (cusID)
);

CREATE TABLE ADDRESS(
    cusID        INTEGER      NOT NULL,
    address      VARCHAR(40)  NOT NULL,
    typeofAdd    VARCHAR(20)  NOT NULL,
    CONSTRAINT PK_address PRIMARY KEY (CUSID,ADDRESS)
);

CREATE TABLE INDIVIDUAL (
    cusID       INTEGER       NOT NULL,
    mailingAdd  VARCHAR(40)   NOT NULL,
    CONSTRAINT pk_individual   PRIMARY KEY (cusID)
);


CREATE TABLE APPOINTMENT (
    dateSche    DATE          NOT NULL,
    vin         INTEGER       NOT NULL,
    CONSTRAINT pk_appointment PRIMARY KEY (vin, dateSche)
);


CREATE TABLE EMPLOYEE (
    empID       INTEGER         NOT NULL,
    FName       VARCHAR(20)     NOT NULL,
    lname       VARCHAR(20)     NOT NULL,
    PHONE       VARCHAR(12)     NOT NULL,
    email       VARCHAR(40)     NOT NULL,
    address     VARCHAR(40)     NOT NULL,
    dateHire    DATE            NOT NULL,
    dateEnd     DATE                    ,
    CONSTRAINT pk_employee PRIMARY KEY (empID, fname, lname)
);


CREATE TABLE TECHNICIAN (
    empID       INTEGER         NOT NULL,
    FName       VARCHAR(20)     NOT NULL,
    lname       VARCHAR(20)     NOT NULL,
    status      VARCHAR(10)             ,
    CONSTRAINT pk_technician PRIMARY KEY (EMPID)
);


CREATE TABLE ORDERS(
    empID       INTEGER       NOT NULL,
    orderID     INTEGER       NOT NULL,
    VIN         INTEGER       NOT NULL,
```

```
    orderDate   DATE          NOT NULL,
    numOfRepairItems INTEGER  NOT NULL,
    CONSTRAINT pk_orders PRIMARY KEY (ORDERID)
);

CREATE TABLE NOTIFICATION(
    cusID       INTEGER       NOT NULL,
    VIN         INTEGER       NOT NULL,
    dateSent    DATE          NOT NULL,
    CONSTRAINT pk_notification PRIMARY KEY (cusID, VIN, dateSent)
);


CREATE TABLE MAINTENANCEPACK (
    packageID    INTEGER          NOT NULL,
    packageName  VARCHAR(20)      NOT NULL,
    numOfItems   INTEGER          NOT NULL,
    make         VARCHAR(10)      NOT NUll,
    model        VARCHAR(10)      NOT NULL,
    mileage       INTEGER          NOT NULL,
    CONSTRAINT  PK_MAINTNENCEPACK PRIMARY KEY (packageID)
);

CREATE TABLE ORDERLINE(
    packageID   INTEGER       NOT NULL,
    orderID     INTEGER       NOT NULL,
    numRepItem  INTEGER       NOT NULL,
    AssignTo    INTEGER       NOT NULL
);

CREATE TABLE REPAIRITEMS (
    namItem       VARCHAR(15)   NOT NULL,
    manufacture   VARCHAR(20)           ,
    CONSTRAINT pk_repairItems PRIMARY KEY (namItem)
);



CREATE TABLE MECHANIC (
    empID       INTEGER         NOT NULL,
    FName       VARCHAR(20)     NOT NULL,
    lname       VARCHAR(20)     NOT NULL,
    CONSTRAINT pk_mechanic PRIMARY KEY (empID)
);

CREATE TABLE MENTORSHIP (
    menteeID    INTEGER         NOT NULL,
    mentorID    INTEGER         NOT NULL,
    startDate   DATE            NOT NULL,
    endDate     DATE            NOT NULL,
    skillMent   VARCHAR(20)     NOT NULL,
    CONSTRAINT  pk_mentorship   PRIMARY KEY (menteeID, MentorID)
);


CREATE TABLE SKILL (
    skillID     INTEGER         NOT NULL,
```

```
    skillName   VARCHAR(30)     NOT NULL,
    CONSTRAINT  pk_skill  PRIMARY KEY (skillID)
);

CREATE TABLE SKILLMECHANIC (
    empID       INTEGER         NOT NULL,
    skillID     INTEGER         NOT NULL,
    dateLearn   DATE                    ,
    CONSTRAINT  pk_skillMechanic   PRIMARY KEY (empID, skillID)
);


CREATE TABLE SKILLREPAIR (
    skillID     INTEGER         NOT NULL,
    namItem     VARCHAR(15)     NOT NULL,
    CONSTRAINT  pk_skillRepair  PRIMARY KEY (skillID, namItem)
);

CREATE TABLE CERTIFICATION (
    empID          INTEGER         NOT NULL,
    dateReceived   DATE            NOT NULL,
    expireDate     DATE            NOT NULL,
    CONSTRAINT  pk_CERTIFICATION   PRIMARY KEY (empID, dateReceived)
);



CREATE TABLE REPAIRINSTANCE(
    price        DOUBLE           NOT NULL,
    namItem      VARCHAR(15)      NOT NUlL,
    packageID    INTEGER          NOT NULL
);
```

```
-- Section 2: Alter Tables' Constrains


ALTER TABLE VEHICLE
add CONSTRAINT veh_cus_fk FOREIGN KEY (cusID )REFERENCES CUSTOMERS (cusID);

ALTER TABLE EXISTINGCUSTOMER
add CONSTRAINT excus_cus_fk  FOREIGN KEY (cusID) REFERENCES CUSTOMERS
(cusID);

ALTER TABLE PROSPECTIVE
add CONSTRAINT prosp_cus_fk  FOREIGN KEY (cusID) REFERENCES CUSTOMERS
(cusID);

ALTER TABLE SPECIALINSTANCE
add CONSTRAINT special_SI_fk FOREIGN KEY (specialItem, EXPIRATIONDATE)
        REFERENCES SPECIAL (specialItem, EXPIRATIONDATE);

ALTER TABLE STEADY
add CONSTRAINT steady_ecus_fk  FOREIGN KEY (cusID) REFERENCES
EXISTINGCUSTOMER (cusID);

ALTER TABLE PREMIER
add CONSTRAINT premier_ecus_fk  FOREIGN KEY (cusID) REFERENCES
EXISTINGCUSTOMER (cusID);

ALTER TABLE CORPORATION
add CONSTRAINT corp_cus_fk  FOREIGN KEY (cusID) REFERENCES CUSTOMERS (cusID);

ALTER TABLE INDIVIDUAL
add CONSTRAINT indi_cus_fk  FOREIGN KEY (cusID) REFERENCES CUSTOMERS (cusID);

ALTER TABLE TECHNICIAN
add CONSTRAINT tech_emp_fk FOREIGN KEY (EMPID,FNAME,LNAME) REFERENCES
EMPLOYEE (EMPID,FNAME,LNAME);

ALTER TABLE ORDERS
add CONSTRAINT  orders_tech_fk FOREIGN KEY(empID) REFERENCES TECHNICIAN
(empID);

ALTER TABLE ORDERLINE
add CONSTRAINT oLine_repair_fk FOREIGN KEY (packageID) REFERENCES
MAINTENANCEPACK (packageID);

ALTER TABLE MECHANIC
add CONSTRAINT mech_emp_fk FOREIGN KEY (EMPID,FNAME,LNAME) REFERENCES
EMPLOYEE (EMPID,FNAME,LNAME);

ALTER TABLE SKILLREPAIR
add CONSTRAINT skillrep_repair_fk FOREIGN KEY (namItem) REFERENCES
REPAIRITEMS (namItem);
ALTER TABLE SKILLREPAIR
add CONSTRAINT skillrep_skill_fk  FOREIGN KEY (skillID) REFERENCES SKILL
(skillID);

ALTER TABLE REPAIRINSTANCE
```

```
add CONSTRAINT repInst_repItem_fk FOREIGN KEY (namItem) REFERENCES
REPAIRITEMS (namItem);

ALTER TABLE REPAIRINSTANCE
add CONSTRAINT repInst_maintnence_fk FOREIGN KEY (packageID) REFERENCES
MAINTENANCEPACK (packageID);

ALTER TABLE APPOINTMENT
add CONSTRAINT app_vehicle_fk  FOREIGN KEY (vin) REFERENCES VEHICLE (vin);

ALTER TABLE NOTIFICATION
add CONSTRAINT not_steady_fk FOREIGN KEY (CUSID) REFERENCES STEADY (CUSID);

ALTER TABLE MENTORSHIP
add CONSTRAINT  ment_mech_fk    FOREIGN KEY (menteeID) REFERENCES MECHANIC
(empID);
ALTER TABLE MENTORSHIP
add CONSTRAINT  ment1_mech_fk   FOREIGN KEY (mentorID) REFERENCES MECHANIC
(empID);

ALTER TABLE SKILLMECHANIC
add CONSTRAINT skillmech_skill_fk FOREIGN KEY (skillID) REFERENCES SKILL
(skillID);
ALTER TABLE SKILLMECHANIC
add CONSTRAINT skillmech_mech_fk  FOREIGN KEY (empID)   REFERENCES MECHANIC
(empID);

ALTER TABLE CERTIFICATION
add CONSTRAINT  cert_mech_fk    FOREIGN KEY (empID) REFERENCES MECHANIC
(empID);
```