

USE BUDT703_Project_0502_09

```
DROP TABLE IF EXISTS [UMDParking.Apply]
DROP TABLE IF EXISTS [UMDParking.Buy]
DROP TABLE IF EXISTS [UMDParking.Permit]
DROP TABLE IF EXISTS [UMDParking.Surge]
DROP TABLE IF EXISTS [UMDParking.Discount]
DROP TABLE IF EXISTS [UMDParking.Manager]
DROP TABLE IF EXISTS [UMDParking.Customer]
DROP TABLE IF EXISTS [UMDParking.Slots]
DROP TABLE IF EXISTS [UMDParking.Levels]
DROP TABLE IF EXISTS [UMDParking.Lots]
DROP TABLE IF EXISTS [UMDParking.Ticket]
```

```
CREATE TABLE [UMDParking.Ticket] (
    ticketNo CHAR(10) NOT NULL,
    ticketDate DATE,
    ticketBaseCost INTEGER,
    CONSTRAINT pk_Ticket_ticketNo PRIMARY KEY (ticketNo) )
```

```
CREATE TABLE [UMDParking.Lots] (
    lotId CHAR(10) NOT NULL,
    lotName VARCHAR(10),
    CONSTRAINT pk_Lots_lotId PRIMARY KEY (lotId) )
```

```
CREATE TABLE [UMDParking.Levels] (
    lvlId CHAR(10) NOT NULL,
    lvlName VARCHAR(10),
    CONSTRAINT pk_Levels_lvlId PRIMARY KEY (lvlId) )
```

```
CREATE TABLE [UMDParking.Slots] (
    sltId CHAR(10) NOT NULL,
    sltName VARCHAR(10),
    lvlId CHAR(10),
    lotId CHAR(10),
    CONSTRAINT pk_Slots_sltId PRIMARY KEY (sltId),
    CONSTRAINT fk_Slots_lvlId FOREIGN KEY (lvlId)
        REFERENCES [UMDParking.Levels](lvlId)
        ON DELETE CASCADE ON UPDATE CASCADE,
    CONSTRAINT fk_Slots_lotId FOREIGN KEY (lotId)
        REFERENCES [UMDParking.Lots] (lotId)
        ON DELETE CASCADE ON UPDATE CASCADE )
```

```
CREATE TABLE [UMDParking.Customer] (
    custId char(10) NOT NULL,
    custFirstName VARCHAR(10),
    custLastName VARCHAR(10),
    custVehicleNo VARCHAR(10),
    custPhoneNo CHAR(10),
    custEmailId VARCHAR(30),
    custType VARCHAR(10),
    CONSTRAINT pk_Customer_custId PRIMARY KEY (custId) )
```

```
CREATE TABLE [UMDParking.Manager] (
    mngrId char(10) NOT NULL,
    mngrFirstName VARCHAR(10),
    mngrLastName VARCHAR(10),
    mngrPhoneNo CHAR(10),
    mngrEmailId VARCHAR(30),
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lotId CHAR(10),
CONSTRAINT pk_Manager_mngrId PRIMARY KEY (mngrId),
CONSTRAINT fk_Manager_lotId FOREIGN KEY (lotId)
REFERENCES [UMDParking.Lots](lotId)
ON DELETE SET NULL ON UPDATE CASCADE)

```

```

CREATE TABLE [UMDParking.Discount] (
    custDiscountId char(10) NOT NULL,
    custDiscount DECIMAL(5,2),
    CONSTRAINT pk_Discount_custDiscountId PRIMARY KEY (custDiscountId) )

```

```

CREATE TABLE [UMDParking.Surge] (
    srgId char(10) NOT NULL,
    srgCharge DECIMAL(5,2),
    srgFlag CHAR(01),
    ticketNo CHAR(10),
    CONSTRAINT pk_Surge_srgId PRIMARY KEY (srgId),
    CONSTRAINT fk_Surge_ticketNo FOREIGN KEY (ticketNo)
REFERENCES [UMDParking.Ticket](ticketNo)
ON DELETE CASCADE ON UPDATE CASCADE )

```

```

CREATE TABLE [UMDParking.Permit] (
    pmtId CHAR(10) NOT NULL,
    pmtHrs FLOAT(2),
    pmtDay VARCHAR(10),
    sltId CHAR(10),
    CONSTRAINT pk_Permit_pmtId PRIMARY KEY (pmtId),
    CONSTRAINT fk_Permit_sltdId FOREIGN KEY (sltId)
REFERENCES [UMDParking.Slots](sltId)
ON DELETE CASCADE ON UPDATE CASCADE)

```

```

CREATE TABLE [UMDParking.Buy] (
    ticketNo CHAR(10) NOT NULL,
    lotId CHAR(10) NOT NULL,
    custId CHAR(10) NOT NULL,
    lvlId CHAR(10) NOT NULL,
    sltId CHAR(10) NOT NULL,
    CONSTRAINT pk_Buy_ticketNo_lotId_custId PRIMARY KEY (ticketNo, lotId,
    custId, lvlId, sltId),
    CONSTRAINT fk_Buy_ticketNo FOREIGN KEY (ticketNo)
REFERENCES [UMDParking.Ticket] (ticketNo)
ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT fk_Buy_lotId FOREIGN KEY (lotId)
REFERENCES [UMDParking.Lots] (lotId)
ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT fk_Buy_custId FOREIGN KEY (custId)
REFERENCES [UMDParking.Customer] (custId)
ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT fk_Buy_lvlId FOREIGN KEY (lvlId)
REFERENCES [UMDParking.Levels] (lvlId)
ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT fk_Buy_sltdId FOREIGN KEY (sltId)
REFERENCES [UMDParking.Slots] (sltId)
ON DELETE NO ACTION ON UPDATE NO ACTION )

```

```

CREATE TABLE [UMDParking.Apply] (
    custId CHAR(10) NOT NULL,
    ticketNo CHAR(10) NOT NULL,
    custDiscountId CHAR(10) NOT NULL,

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custType VARCHAR(10),
CONSTRAINT pk_Apply_custId_ticketNo_custDiscountId PRIMARY KEY (custId,
ticketNo, custDiscountId),
CONSTRAINT fk_Apply_custId FOREIGN KEY (custId)
    REFERENCES [UMDParking.Customer] (custId)
    ON DELETE NO ACTION ON UPDATE NO ACTION,
CONSTRAINT fk_Apply_ticketNo FOREIGN KEY (ticketNo)
    REFERENCES [UMDParking.Ticket] (ticketNo)
    ON DELETE NO ACTION ON UPDATE NO ACTION,
CONSTRAINT fk_Apply_custDiscountId FOREIGN KEY (custDiscountId)
    REFERENCES [UMDParking.Discount] (custDiscountId)
    ON DELETE NO ACTION ON UPDATE NO ACTION )
```