

```
USE BUDT703_Project_0507_03;
```

```
DROP TABLE IF EXISTS [NiteRide]
DROP TABLE IF EXISTS [Location]
DROP TABLE IF EXISTS [Book]
DROP TABLE IF EXISTS [Assign]
DROP TABLE IF EXISTS [Route]
DROP TABLE IF EXISTS [EmployeePhone]
DROP TABLE IF EXISTS [Event]
DROP TABLE IF EXISTS [Vehicle]
DROP TABLE IF EXISTS [Employee]
DROP TABLE IF EXISTS [Department]
```

```
CREATE TABLE [Department](
    dptId CHAR (5) NOT NULL,
    dptDescription VARCHAR (20),
    dptEmpCount INT,
    dptVehCount INT,
    CONSTRAINT pk_Department_dptId PRIMARY KEY (dptId)
)
```

```
CREATE TABLE [Employee] (
    empId CHAR (5) NOT NULL,
    empFirstName VARCHAR (20),
    empLastName VARCHAR (20),
    empSSN CHAR (9),
    empStuUID CHAR (9),
    empAddressLine1 VARCHAR (50),
    empAddressLine2 VARCHAR (50),
    empZip CHAR (5),
    empCity VARCHAR (30),
    dptId CHAR (5) ,
    empWeeklyHrs INT DEFAULT 0,
    CONSTRAINT pk_Employee_empId PRIMARY KEY (empId),
    CONSTRAINT fk_Employee_dptId FOREIGN KEY (dptId)
        REFERENCES [Department] (dptId)
        ON DELETE SET NULL ON UPDATE CASCADE
)
```

```
CREATE TABLE [EmployeePhone] (
    empId CHAR (5) NOT NULL,
    empPhnNumber CHAR (10),
    CONSTRAINT pk_EmployeePhone_empId_empPhnNumber PRIMARY KEY
(empId, empPhnNumber),
    CONSTRAINT fk_EmployeePhone_empId FOREIGN KEY (empId)
        REFERENCES [Employee] (empId)
        ON DELETE CASCADE ON UPDATE CASCADE
)
```

```
CREATE TABLE [Vehicle](
    vhId CHAR (5) NOT NULL,
    vhModel CHAR (30),
    vhCapacity INT,
    vhRunningStatus VARCHAR (25),
    dptId CHAR (5),
    CONSTRAINT pk_Vehicle_vhId PRIMARY KEY (vhId),
    CONSTRAINT fk_Vehicle_dptId FOREIGN KEY (dptId)
        REFERENCES [Department] (dptId)
)
```

```
        ON DELETE SET NULL ON UPDATE CASCADE
    )
```

```
CREATE TABLE [Event](
    eveId CHAR (5) NOT NULL,
    eveDate DATE,
    eveOrigin VARCHAR (20),
    eveDestination VARCHAR (20),
    eveDurationHr INT,
    eveCapacity INT,
    CONSTRAINT pk_Event_eveId PRIMARY KEY (eveId)
)
```

```
CREATE TABLE [Route](
    rotNo CHAR (3) NOT NULL,
    rotStartLoc VARCHAR (50),
    rotEndLoc VARCHAR (50),
    rotStopCount INT,
    rotFrequency INT,
    CONSTRAINT pk_Route_rotNo PRIMARY KEY (rotNo)
)
```

```
CREATE TABLE [Location](
    locId CHAR(5) NOT NULL,
    locName VARCHAR (30),
    locLatitude DECIMAL(8,6),
    locLongitude DECIMAL(8,6),
    CONSTRAINT pk_Location_locId PRIMARY KEY (locId)
)
```

```
CREATE TABLE [Assign](
    empId CHAR (5),
    vhId CHAR (5),
    rotNo CHAR (3),
    LicenseNo CHAR (13),
    CONSTRAINT pk_Assign_empId_vhId PRIMARY KEY (empId, vhId),
    CONSTRAINT fk_Assign_empId FOREIGN KEY (empId)
        REFERENCES [Employee] (empId)
        ON DELETE NO ACTION ON UPDATE CASCADE,
    CONSTRAINT fk_Assign_vhId FOREIGN KEY (vhId)
        REFERENCES [Vehicle] (vhId)
        ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT fk_Assign_rotNo FOREIGN KEY (rotNo)
        REFERENCES [Route] (rotNo)
        ON DELETE NO ACTION ON UPDATE CASCADE
)
```

```
CREATE TABLE [Book](
    empId CHAR (5),
    vhId CHAR (5),
    eveId CHAR (5),
    CONSTRAINT pk_Book_empId_vhId_eveId PRIMARY KEY (vhId, empId, eveId),
    CONSTRAINT fk_Book_empId FOREIGN KEY (empId)
        REFERENCES [Employee] (empId)
        ON DELETE NO ACTION ON UPDATE CASCADE,
    CONSTRAINT fk_Book_vhId FOREIGN KEY (vhId)
        REFERENCES [Vehicle] (vhId)
        ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT fk_Book_eveId FOREIGN KEY (eveId)
```

```
REFERENCES [Event] (eveId)
ON DELETE CASCADE ON UPDATE CASCADE
)
```

```
CREATE TABLE [NiteRide](
    vhId CHAR (5),
    empId CHAR (5),
    picLocId CHAR (5),
    dropLocId CHAR (5),
    rideDate DATETIME,
    counRiders INT,
    CONSTRAINT pk_NiteRide_empId_pickLocId_dropLocId_rideDate PRIMARY
KEY(empId, picLocId, dropLocId, rideDate),
    CONSTRAINT fk_NiteRide_empId FOREIGN KEY (empId)
        REFERENCES [Employee] (empId)
        ON DELETE NO ACTION ON UPDATE CASCADE,
    CONSTRAINT fk_NiteRide_vhId FOREIGN KEY (vhId)
        REFERENCES [Vehicle] (vhId)
        ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT fk_NiteRide_picLocId FOREIGN KEY (picLocId)
        REFERENCES [Location] (locId)
        ON DELETE NO ACTION ON UPDATE CASCADE,
    CONSTRAINT fk_NiteRide_dropLocId FOREIGN KEY (dropLocId)
        REFERENCES [Location] (locId)
        ON DELETE NO ACTION ON UPDATE NO ACTION
)
```