**Parking Space Code DBMS Project**

drop table if exists Parking\_Lot

go

CREATE TABLE Parking\_Lot

(

Parking\_Lot\_ID char(50) PRIMARY KEY,

Address char(50) UNIQUE NOT NULL

);

INSERT INTO Parking\_Lot VALUES ('L1', 'Whitman Lot');

INSERT INTO Parking\_Lot VALUES ('L2', 'Colvin Lot');

INSERT INTO Parking\_Lot VALUES ('L3', 'University Avenue Garage');

INSERT INTO Parking\_Lot VALUES ('L4', 'Waverly Lot');

INSERT INTO Parking\_Lot VALUES ('L5', 'Bird Library Lot');

drop table if exists Rate

go

CREATE TABLE Rate

(

Rate\_Type char(50),

Hourly\_Rate DECIMAL(10,2) CHECK (Hourly\_Rate > 0),

Daily\_Rate DECIMAL(10,2) CHECK (Daily\_Rate > 0),

Monthly\_Rate DECIMAL(10,2) CHECK (Monthly\_Rate > 0),

PRIMARY KEY (Rate\_Type)

);

INSERT INTO Rate VALUES ('Small', -2.00, 20.00, 600.00);

INSERT INTO Rate VALUES ('Charging', 3.00, 35.00, 800.00);

INSERT INTO Rate VALUES ('Handicap', 1.50, 20.00, 500.00);

INSERT INTO Rate VALUES ('Large', 3.50, 35.00, 700.00);

INSERT INTO Rate VALUES ('Medium', 2.50, 30.00, 650.00);

drop table if exists Parking\_Space

go

CREATE TABLE Parking\_Space

(

Parking\_Space\_ID INT,

Parking\_Lot\_ID char(50),

Parking\_Space\_Type char(50) NOT NULL,

Is\_Occupied char(50) DEFAULT 'False',

PRIMARY KEY (Parking\_Space\_ID, Parking\_Lot\_ID),

FOREIGN KEY (Parking\_Lot\_ID) REFERENCES Parking\_Lot(Parking\_Lot\_ID) ON DELETE CASCADE,

FOREIGN KEY (Parking\_Space\_Type) References Rate(Rate\_Type)

);

INSERT INTO Parking\_Space VALUES (11 , 'L1', 'Small', 'TRUE');

INSERT INTO Parking\_Space VALUES (12 , 'L1', 'Medium', 'FALSE');

INSERT INTO Parking\_Space VALUES (13 , 'L1', 'Large', 'TRUE');

INSERT INTO Parking\_Space VALUES (14 , 'L1', 'Charging', 'TRUE');

INSERT INTO Parking\_Space VALUES (15 , 'L1', 'Handicap', 'FALSE');

INSERT INTO Parking\_Space VALUES (16 , 'L2', 'Small', 'FALSE');

INSERT INTO Parking\_Space VALUES (17 , 'L2', 'Medium', 'FALSE');

INSERT INTO Parking\_Space VALUES (18 , 'L2', 'Large', 'TRUE');

INSERT INTO Parking\_Space VALUES (19 , 'L2', 'Charging', 'TRUE');

INSERT INTO Parking\_Space VALUES (20 , 'L2', 'Handicap', 'TRUE');

INSERT INTO Parking\_Space VALUES (21 , 'L3', 'Small', 'TRUE');

INSERT INTO Parking\_Space VALUES (22 , 'L3', 'Medium', 'FALSE');

INSERT INTO Parking\_Space VALUES (23 , 'L3', 'Large', 'FALSE');

INSERT INTO Parking\_Space VALUES (24 , 'L3', 'Charging', 'FALSE');

INSERT INTO Parking\_Space VALUES (25 , 'L3', 'Handicap', 'TRUE');

INSERT INTO Parking\_Space VALUES (26 , 'L4', 'Small', 'TRUE');

INSERT INTO Parking\_Space VALUES (27 , 'L4', 'Medium', 'FALSE');

INSERT INTO Parking\_Space VALUES (28 , 'L4', 'Large', 'TRUE');

INSERT INTO Parking\_Space VALUES (29 , 'L4', 'Charging', 'FALSE');

INSERT INTO Parking\_Space VALUES (30 , 'L4', 'Handicap', 'TRUE');

INSERT INTO Parking\_Space VALUES (31 , 'L5', 'Small', 'FALSE');

INSERT INTO Parking\_Space VALUES (32 , 'L5', 'Medium', 'TRUE');

INSERT INTO Parking\_Space VALUES (33 , 'L5', 'Large', 'TRUE');

INSERT INTO Parking\_Space VALUES (34 , 'L5', 'Charging', 'TRUE');

INSERT INTO Parking\_Space VALUES (35 , 'L5', 'Handicap', 'FALSE');

drop table if exists Customer

GO

CREATE TABLE Customer

(

Customer\_ID Char(50),

License\_Plate Char(50) NOT NULL,

Primary Key (Customer\_ID)

);

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C1', 'KHA7559');

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C2', 'THC3645');

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C3', 'PBS8683');

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C4', 'AFR345');

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C5', 'KSG6414');

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C6', 'KJS3739');

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C7', 'KNP8174');

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C8', 'KDM4791');

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C9', 'AM97132');

INSERT INTO Customer (Customer\_ID, License\_Plate) values ('C10', 'SXG457');

update Customer set License\_Plate = 'KLB3542' where License\_Plate= 'SXG457'

drop table if exists Pass\_Holder

GO

CREATE TABLE Pass\_Holder

(

Customer\_ID Char(50),

First\_Name Char(50) NOT NULL,

Last\_Name Char(50) NOT NULL,

Phone\_Number Char(50) NOT NULL UNIQUE,

Address Char(50) NOT NULL,

Email Char(50) NOT NULL UNIQUE,

Primary Key (Customer\_ID),

FOREIGN KEY (Customer\_ID) REFERENCES Customer(Customer\_ID) ON DELETE CASCADE

);

alter table Pass\_Holder

drop column Last\_Name;

alter table Pass\_Holder

add Last\_Name Char(50) NOT NULL;

alter table Pass\_Holder

add Gender Char(10) NOT NULL;

INSERT INTO Pass\_Holder (Customer\_ID, First\_Name, Last\_Name, Phone\_Number, Address, Email, Gender) values ('C6', 'Syed', 'Naqvi', '5084642294', '916 Ackerman Ave', 'snaqvi@gmail.com', 'Male');

INSERT INTO Pass\_Holder (Customer\_ID, First\_Name, Last\_Name, Phone\_Number, Address, Email, Gender) values ('C7', 'Shrey', 'Sheth', '6072335838', '604 Walnut Ave', 'ssheth@gmail.com','Male');

INSERT INTO Pass\_Holder (Customer\_ID, First\_Name, Last\_Name, Phone\_Number, Address, Email, Gender) values ('C8', 'Rahul', 'Kotian', '8144740588', '818 Lancaster Ave', 'rkotian@gmail.com','Male');

INSERT INTO Pass\_Holder (Customer\_ID, First\_Name, Last\_Name, Phone\_Number, Address, Email, Gender) values ('C9', 'Pralhad', 'Vaishnav', '9734574828', '305 S Beech St', 'pvaishanv@gmail.com','Male');

INSERT INTO Pass\_Holder (Customer\_ID, First\_Name, Last\_Name, Phone\_Number, Address, Email, Gender) values ('C10', 'Laura', 'Korte', '8127457647', '2343 Euclid Ave', 'lkorte@gmail.com','Female');

create view test AS

Select \* from Pass\_Holder

where Customer\_ID ='C10';

update Pass\_Holder set First\_Name= 'Angelina' , Last\_Name ='Jolie' where Customer\_ID = 'C10'

drop table if exists Parking\_Lot\_Employee

GO

CREATE TABLE Parking\_Lot\_Employee

(

Employee\_ID Char(50),

First\_Name Char(50) NOT NULL,

Last\_Name Char(50) NOT NULL,

Hiring\_Date DATE NOT NULL,

Employment\_Status Char(50) DEFAULT 'ACTIVE',

Primary Key (Employee\_ID)

);

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E1', 'James', 'Patten', '2022-10-22', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E2', 'Henry', 'Wilson', '2022-12-30', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E3', 'Leroy', 'Nagel', '2022-11-14', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E4', 'Diane', 'William', '2022-03-15', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E5', 'Sandra', 'Brunswick', '2022-03-15', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E6', 'Corey', 'Morrison', '2022-10-10', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E7', 'Walter', 'White', '2022-12-01', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E8', 'Holly', 'Taylor', '2022-04-04', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E9', 'Bart', 'Simpson', '2022-05-05', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E10', 'Jeffrey', 'Watson', '2022-12-17', 'ACTIVE');

INSERT INTO Parking\_Lot\_Employee (Employee\_ID, First\_Name, Last\_Name, Hiring\_Date, Employment\_Status) values ('E11', 'Alan', 'Walker', '2022-04-07', 'ACTIVE');

drop table if exists Manager

go

CREATE TABLE Manager

(

Employee\_ID Char(50),

Manager\_ID Char(50) NOT NULL UNIQUE,

Managed\_By\_ID Char(50),

Primary Key (Employee\_ID),

FOREIGN KEY (Employee\_ID) REFERENCES Parking\_Lot\_Employee(Employee\_ID) ON DELETE CASCADE,

FOREIGN KEY (Managed\_By\_ID) REFERENCES Manager(Manager\_ID) ON DELETE NO ACTION

);

INSERT INTO Manager (Employee\_ID, Manager\_ID, Managed\_By\_ID) VALUES ('E11', 'M6', null);

INSERT INTO Manager (Employee\_ID, Manager\_ID, Managed\_By\_ID) VALUES ('E10', 'M5', 'M6');

INSERT INTO Manager (Employee\_ID, Manager\_ID, Managed\_By\_ID) VALUES ('E8', 'M3', 'M5');

INSERT INTO Manager (Employee\_ID, Manager\_ID, Managed\_By\_ID) VALUES ('E7', 'M2', 'M3');

INSERT INTO Manager (Employee\_ID, Manager\_ID, Managed\_By\_ID) VALUES ('E9', 'M4', 'M2');

INSERT INTO Manager (Employee\_ID, Manager\_ID, Managed\_By\_ID) VALUES ('E6', 'M1', 'M2');

drop table if exists Manager\_Salary

go

CREATE TABLE Manager\_Salary

(

Manager\_Type CHAR(50) PRIMARY KEY,

Salary DECIMAL (10,2) CHECK (Salary > 0)

);

INSERT INTO Manager\_Salary (Manager\_Type, Salary) VALUES ('Lot Manager', 40000);

INSERT INTO Manager\_Salary (Manager\_Type, Salary) VALUES ('Regional Manager', 50000);

INSERT INTO Manager\_Salary (Manager\_Type, Salary) VALUES ('Assistant Director', 60000);

INSERT INTO Manager\_Salary (Manager\_Type, Salary) VALUES ('Director', 70000);

INSERT INTO Manager\_Salary (Manager\_Type, Salary) VALUES ('Executive', 80000);

drop table if exists Manager\_ID\_Manager\_Type

go

CREATE TABLE Manager\_ID\_Manager\_Type

(

Manager\_ID CHAR(50),

Manager\_Type CHAR(50),

PRIMARY KEY (Manager\_ID,Manager\_Type),

FOREIGN KEY (Manager\_ID) REFERENCES Manager(Manager\_ID) ON DELETE CASCADE,

FOREIGN KEY (Manager\_Type) REFERENCES Manager\_Salary(Manager\_Type)

);

INSERT INTO Manager\_ID\_Manager\_Type (Manager\_ID, Manager\_Type) VALUES ('M1', 'Lot Manager');

INSERT INTO Manager\_ID\_Manager\_Type (Manager\_ID, Manager\_Type) VALUES ('M2', 'Regional Manager');

INSERT INTO Manager\_ID\_Manager\_Type (Manager\_ID, Manager\_Type) VALUES ('M3', 'Assistant Director');

INSERT INTO Manager\_ID\_Manager\_Type (Manager\_ID, Manager\_Type) VALUES ('M4', 'Lot Manager');

INSERT INTO Manager\_ID\_Manager\_Type (Manager\_ID, Manager\_Type) VALUES ('M5', 'Director');

INSERT INTO Manager\_ID\_Manager\_Type (Manager\_ID, Manager\_Type) VALUES ('M6', 'Executive');

drop table if exists Officer

GO

CREATE TABLE Officer

(

Employee\_ID CHAR(50) PRIMARY KEY,

Officer\_ID CHAR(50) NOT NULL UNIQUE,

Shift CHAR(50),

Managed\_By\_ID CHAR(50) NOT NULL,

FOREIGN KEY (Employee\_ID) REFERENCES Parking\_Lot\_Employee(Employee\_ID) ON DELETE CASCADE,

FOREIGN KEY (Managed\_By\_ID) REFERENCES Manager(Manager\_ID)

);

INSERT INTO Officer VALUES ('E1', 'O1', 'Day','M1');

INSERT INTO Officer VALUES ('E2', 'O2', 'Day', 'M1');

INSERT INTO Officer VALUES ('E3', 'O3', 'Night', 'M4');

INSERT INTO Officer VALUES ('E4', 'O4', 'Night', 'M4');

INSERT INTO Officer VALUES ('E5', 'O5', 'Night', 'M4');

drop table if exists Fine\_Type\_Cost

CREATE TABLE Fine\_Type\_Cost

(

Fine\_Type CHAR(50) PRIMARY KEY,

Cost DECIMAL(10,2) CHECK (Cost > 0)

);

INSERT INTO Fine\_Type\_Cost VALUES ('Over Time Limit', 60.00);

INSERT INTO Fine\_Type\_Cost VALUES ('Parking In Non-designated Space', 150.00);

INSERT INTO Fine\_Type\_Cost VALUES ('Parking In Handicap Space', 250.00);

INSERT INTO Fine\_Type\_Cost VALUES ('Parking In Emergency Vehicle Space', 500.00);

INSERT INTO Fine\_Type\_Cost VALUES ('No Payment', 100.00);

drop table if exists Fine

GO

CREATE TABLE Fine

(

Fine\_ID CHAR(50) PRIMARY KEY,

Officer\_ID CHAR(50) NOT NULL,

Customer\_ID CHAR(50) NOT NULL,

Fine\_Type CHAR(50) NOT NULL,

Issue\_Date\_Time DATETIME NOT NULL,

Due\_Date DATETIME NOT NULL,

Payment\_Date\_Time DATETIME NOT NULL,

FOREIGN KEY (Officer\_ID) REFERENCES Officer(Officer\_ID),

FOREIGN KEY (Customer\_ID) REFERENCES Customer(Customer\_ID),

FOREIGN KEY (Fine\_Type) REFERENCES Fine\_Type\_Cost(Fine\_Type)

);

INSERT INTO Fine VALUES ('F1', 'O1', 'C1', 'Parking In Handicap Space', '2022-05-29 07:00:00', '2022-06-05', '2022-06-03 18:15:00');

INSERT INTO Fine VALUES ('F2', 'O1', 'C5', 'Over Time Limit', '2022-05-29 12:00:00', '2022-06-05', '2022-06-01 12:00:35');

INSERT INTO Fine VALUES ('F3', 'O2', 'C7', 'Over Time Limit', '2022-06-01 15:03:00', '2022-06-08', '2022-06-05 16:14:35');

INSERT INTO Fine VALUES ('F4', 'O3', 'C8', 'Over Time Limit', '2022-06-09 19:00:00', '2022-06-16', '2022-06-10 13:00:00');

INSERT INTO Fine VALUES ('F5', 'O5', 'C10','Parking In Emergency Vehicle Space', '2022-06-09 20:13:00', '2022-06-16', '2022-06-13 22:00:16');

drop table if exists Patrols

Go

CREATE TABLE Patrols

(

Officer\_ID CHAR(50),

Parking\_Lot\_ID CHAR(50),

PRIMARY KEY (Officer\_ID, Parking\_Lot\_ID),

FOREIGN KEY (Officer\_ID) REFERENCES Officer(Officer\_ID) ON DELETE CASCADE,

FOREIGN KEY (Parking\_Lot\_ID) REFERENCES Parking\_Lot(Parking\_Lot\_ID) ON DELETE CASCADE

);

INSERT INTO Patrols VALUES ('O1', 'L1');

INSERT INTO Patrols VALUES ('O1', 'L2');

INSERT INTO Patrols VALUES ('O1', 'L3');

INSERT INTO Patrols VALUES ('O1', 'L4');

INSERT INTO Patrols VALUES ('O1', 'L5');

INSERT INTO Patrols VALUES ('O2', 'L2');

INSERT INTO Patrols VALUES ('O3', 'L1');

INSERT INTO Patrols VALUES ('O3', 'L2');

INSERT INTO Patrols VALUES ('O3', 'L3');

INSERT INTO Patrols VALUES ('O3', 'L4');

INSERT INTO Patrols VALUES ('O3', 'L5');

INSERT INTO Patrols VALUES ('O4', 'L4');

INSERT INTO Patrols VALUES ('O5', 'L5');

drop table if exists Parking\_Slip

go

CREATE TABLE Parking\_Slip

(

Parking\_Slip\_ID char(50) PRIMARY KEY,

Issue\_Date\_Time DATETIME NOT NULL,

Expiry\_Date\_Time DATETIME NOT NULL,

Parking\_Lot\_ID char(50) NOT NULL,

Parking\_Space\_ID INT NOT NULL,

Customer\_ID char(50) NOT NULL,

FOREIGN KEY (Parking\_Space\_ID, Parking\_Lot\_ID) REFERENCES Parking\_Space(Parking\_Space\_ID,Parking\_Lot\_ID) ON DELETE CASCADE,

FOREIGN KEY (Customer\_ID) REFERENCES Customer(Customer\_ID) ON DELETE CASCADE

);

INSERT INTO Parking\_Slip VALUES ('PS1' , '2022-08-01 19:00:00', '2022-08-01 20:00:00', 'L1', 11, 'C1');

INSERT INTO Parking\_Slip VALUES ('PS2' , '2022-09-01 15:00:00', '2022-09-01 16:00:00', 'L2', 16, 'C2');

INSERT INTO Parking\_Slip VALUES ('PS3' , '2022-10-01 12:00:00', '2022-10-01 13:00:00', 'L3', 21, 'C3');

INSERT INTO Parking\_Slip VALUES ('PS4' , '2022-12-01 04:00:00', '2022-12-01 05:00:00', 'L4', 26, 'C4');

INSERT INTO Parking\_Slip VALUES ('PS5' , '2022-01-01 20:00:00', '2022-01-01 21:00:00', 'L5', 31, 'C5');

drop table if exists Parking\_Pass

go

CREATE TABLE Parking\_Pass

(

Parking\_Pass\_ID char(50) PRIMARY KEY,

Issue\_Date\_Time DATETIME NOT NULL,

Expiry\_Date\_Time DATETIME NOT NULL,

Parking\_Lot\_ID char(50) NOT NULL,

Parking\_Space\_ID INT NOT NULL,

Customer\_ID char(50) NOT NULL,

FOREIGN KEY (Parking\_Space\_ID, Parking\_Lot\_ID) REFERENCES Parking\_Space(Parking\_Space\_ID,Parking\_Lot\_ID) ON DELETE CASCADE,

FOREIGN KEY (Customer\_ID) REFERENCES Pass\_Holder(Customer\_ID) ON DELETE CASCADE

);

INSERT INTO Parking\_Pass VALUES ('PP1' , '2022-08-01 00:00:00', '2022-08-31 23:59:59', 'L1', 12, 'C6');

INSERT INTO Parking\_Pass VALUES ('PP2' , '2022-09-01 00:00:00', '2022-09-30 23:59:59', 'L2', 17, 'C7');

INSERT INTO Parking\_Pass VALUES ('PP3' , '2022-10-01 00:00:00', '2022-10-31 23:59:59', 'L3', 22, 'C8');

INSERT INTO Parking\_Pass VALUES ('PP4' , '2022-12-01 00:00:00', '2022-12-31 23:59:59', 'L4', 27, 'C9');

INSERT INTO Parking\_Pass VALUES ('PP5' , '2022-01-01 00:00:00', '2022-01-31 23:59:59', 'L5', 32, 'C10');

Create View All\_Lots AS

Select p. Parking\_Lot\_ID,p. Address, sp.Parking\_Space\_ID,sp.Parking\_Space\_Type,sp.Is\_Occupied

from Parking\_Lot p

INNER JOIN Parking\_Space sp

On p.Parking\_Lot\_ID = sp.Parking\_Lot\_ID;

Create view CustomerFines AS

Select f.Officer\_ID,f. Customer\_ID,f. Fine\_Type,fc.cost,f. Issue\_Date\_Time,f. Due\_Date from fine f Inner join Fine\_Type\_Cost fc

ON f. Fine\_Type = fc. Fine\_Type

INNER JOIN Officer o

ON o.Officer\_ID=f.Officer\_ID;

create view ParkingpassData as

Select distinct l.Address ,ps.Customer\_ID,p.First\_Name,p.Last\_Name,ps.Parking\_Pass\_ID,ps.Issue\_Date\_Time,ps.Expiry\_Date\_Time from Pass\_Holder p

INNER JOIN Parking\_Pass ps

ON p.Customer\_ID=ps.Customer\_ID

INNER JOIN Parking\_Space s

ON Ps.Parking\_Lot\_ID =s.Parking\_Lot\_ID

INNER JOIN Parking\_Lot l

ON l.Parking\_Lot\_ID =s.Parking\_Lot\_ID

User Story 1

SELECT l.Address,ps.Parking\_Space\_ID,ps.Parking\_Space\_Type,ps.Parking\_Lot\_ID,r.Hourly\_Rate,r.Monthly\_Rate,r.Daily\_Rate,ps.Is\_Occupied FROM Parking\_Space ps

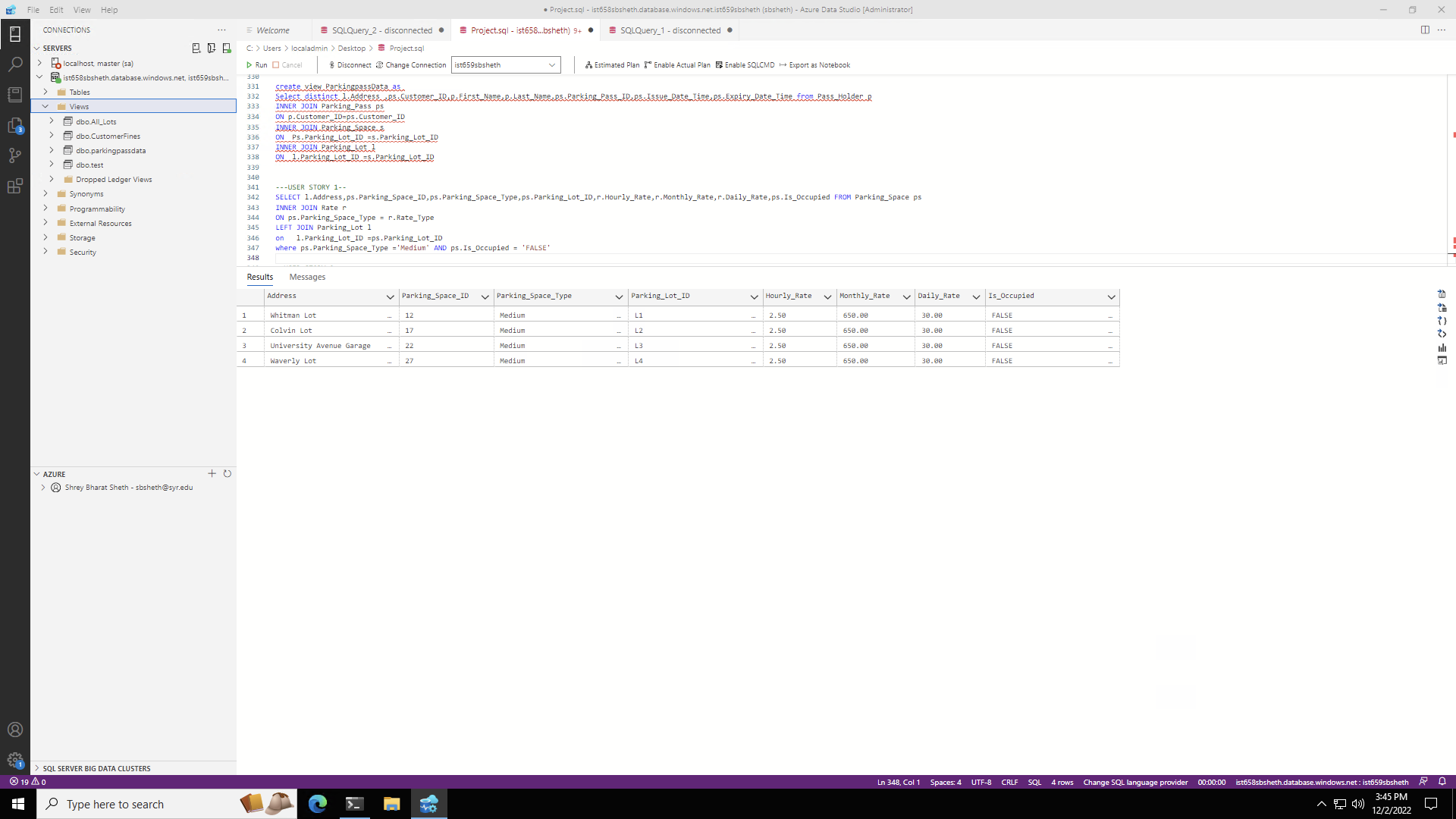
INNER JOIN Rate r

ON ps.Parking\_Space\_Type = r.Rate\_Type

LEFT JOIN Parking\_Lot l

on l.Parking\_Lot\_ID =ps.Parking\_Lot\_ID

where ps.Parking\_Space\_Type ='Medium' AND ps.Is\_Occupied = 'FALSE'



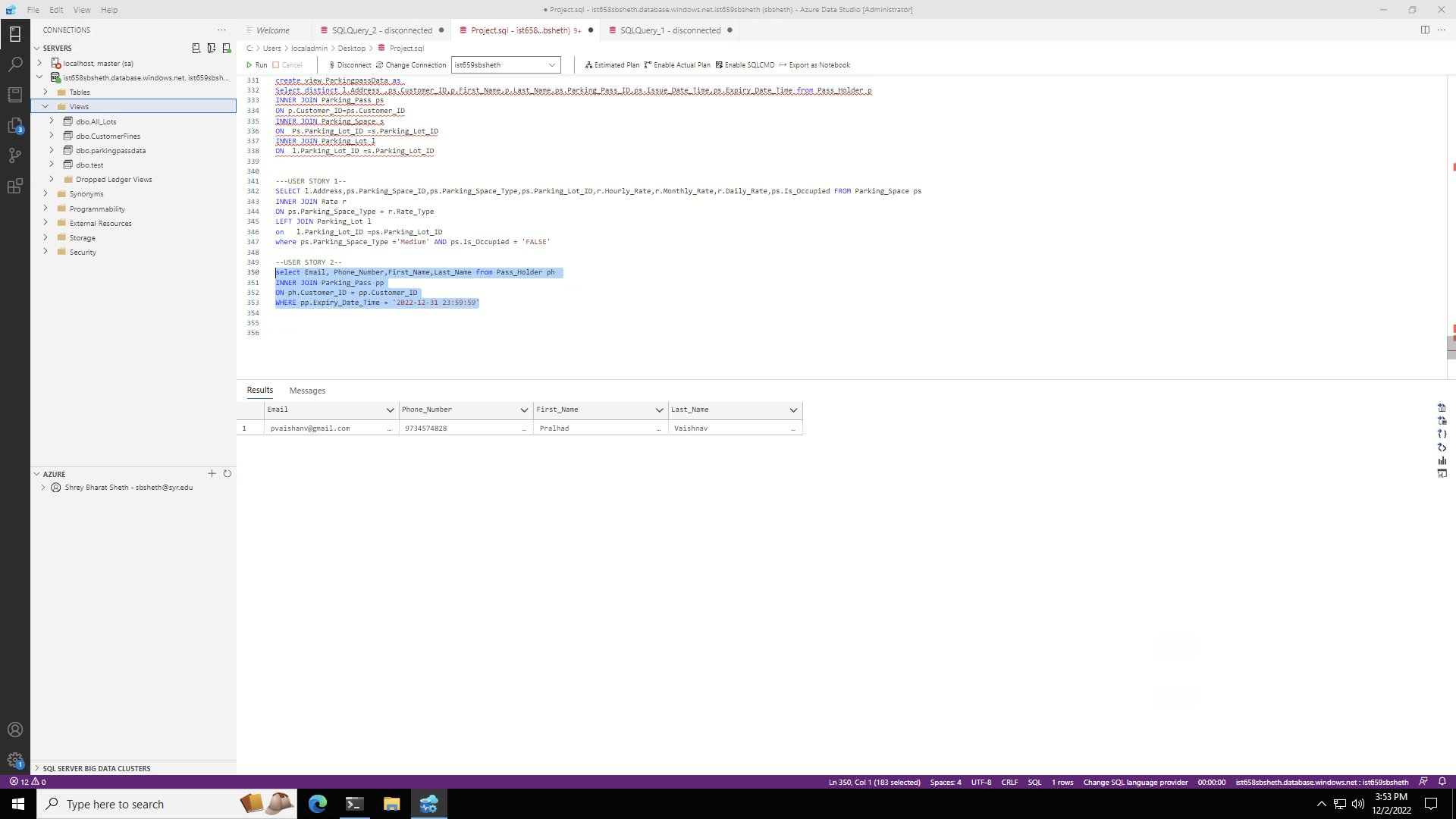
User Story 2

select Email, Phone\_Number,First\_Name,Last\_Name from Pass\_Holder ph

INNER JOIN Parking\_Pass pp

ON ph.Customer\_ID = pp.Customer\_ID

WHERE pp.Expiry\_Date\_Time = '2022-12-31 23:59:59'



User Story 3

SELECT l.Address,ps.Parking\_Space\_ID,ps.Parking\_Space\_Type,ps.Parking\_Lot\_ID,r.Monthly\_Rate,ps.Is\_Occupied FROM Parking\_Space ps

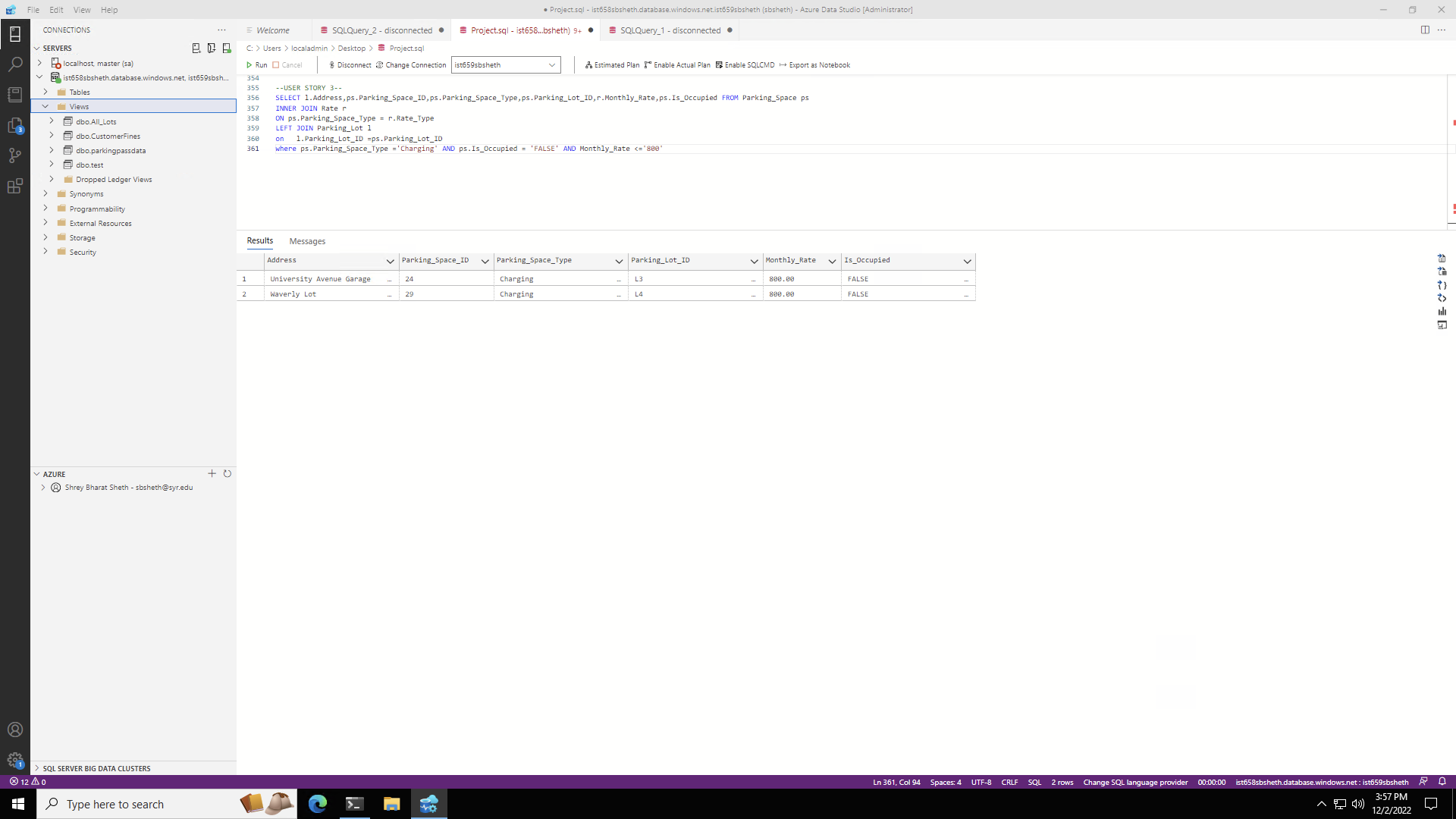
INNER JOIN Rate r

ON ps.Parking\_Space\_Type = r.Rate\_Type

LEFT JOIN Parking\_Lot l

on l.Parking\_Lot\_ID =ps.Parking\_Lot\_ID

where ps.Parking\_Space\_Type ='Charging' AND ps.Is\_Occupied = 'FALSE' AND Monthly\_Rate <='800'



User Story 4

drop FUNCTION if EXISTS f\_finetype

GO

CREATE FUNCTION f\_finetype (@Fine\_Type varchar (50))

RETURNS TABLE

as

RETURN

(

SELECT f.Fine\_Type,sum(fc.Cost) AS AmountCharged from Fine f

INNER JOIN Fine\_Type\_Cost fc

ON f.Fine\_Type = fc.Fine\_Type

WHERE

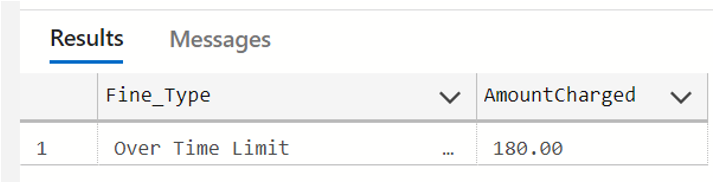
f.Fine\_Type = @Fine\_type

GROUP BY f.Fine\_Type

);

GO

SELECT \* from f\_Finetype ('Over Time Limit')



User Story 5

select e.First\_Name, e.Last\_Name, e.Employee\_ID, e.Hiring\_Date, m.Manager\_ID, m.Managed\_By\_ID from Parking\_Lot\_Employee e

INNER JOIN Manager m

on e.Employee\_ID = m.Employee\_ID

where Hiring\_Date >= '2022-08-10'

