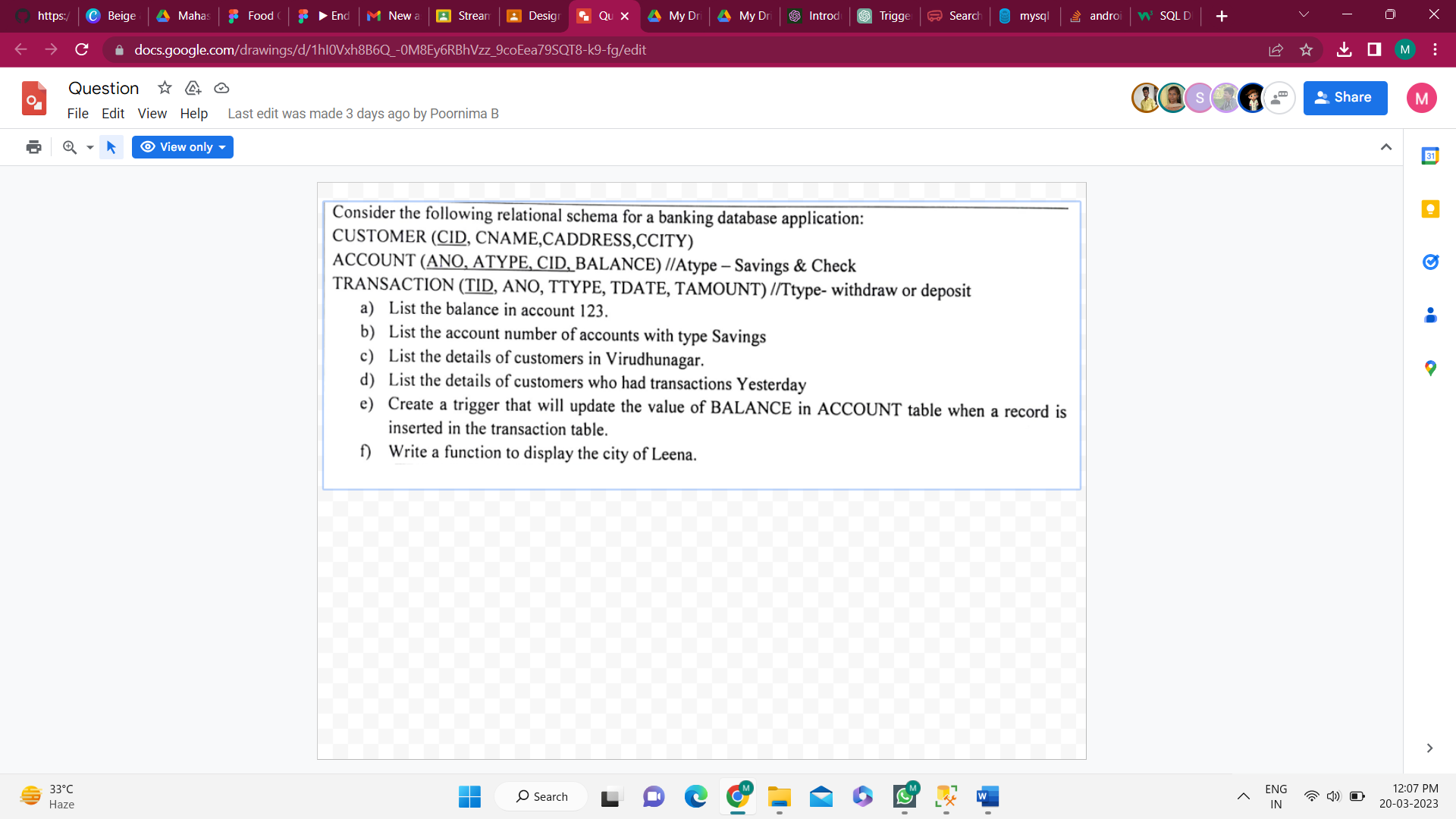
**NAME: Mahasri M**

**Question:**



**Query:**

CREATE TABLE customer (cid int primary key, cname varchar(20), caddress varchar(50), ccity varchar(20));

INSERT INTO customer VALUES (120, 'smith', '11, nehru street' , 'tirupur');

INSERT INTO customer VALUES (121, 'leena', '09, indra street' , 'selam');

INSERT INTO customer VALUES (122, 'sitra', '23, gandhi street' , 'virudhunagar');

INSERT INTO customer VALUES (123, 'maha', '54, gopal street' , 'kovai');

INSERT INTO customer VALUES (124, 'sri', '37, mahatma street' , 'chennai');

SELECT \* FROM customer;

CREATE TABLE account (ano int primary key, atype varchar(20), cid int , balance int,

CONSTRAINT FK\_CUSID FOREIGN KEY(CID) REFERENCES customer(cid));

INSERT INTO account VALUES (012345, 'savings', 120, 15000);

INSERT INTO account VALUES (023456, 'check', 121, 30050);

INSERT INTO account VALUES (034567, 'savings', 122, 10678);

INSERT INTO account VALUES (045678, 'savings', 123, 80000);

INSERT INTO account VALUES (056789, 'check', 124, 39456);

SELECT \* FROM account;

CREATE TABLE transactions (tid int primary key, ano int, ttype varchar(10), tdate date, tamount int

CONSTRAINT FK\_ACCNO FOREIGN KEY(ANO) REFERENCES account(ano));

INSERT INTO transactions VALUES (001, 012345, 'withdraw', '2023/01/10', 1000);

INSERT INTO transactions VALUES (002, 023456, 'deposit', '2023/02/08', 4500);

INSERT INTO transactions VALUES (003, 034567, 'withdraw', '2023/01/30', 2450);

INSERT INTO transactions VALUES (004, 045678, 'deposit', '2023/03/19', 3999);

SELECT \* FROM transactions;

--1

SELECT balance from account where cid=123;

--2

SELECT ano from account where atype='savings';

--3

SELECT cname, caddress, ccity

FROM customer

INNER JOIN account

ON customer.cid = account.cid;

SELECT a.\*, b.ano,b.balance,b.atype FROM account AS b INNER JOIN customer as a ON (a.ccity='virudhunagar'and a.cid=b.cid);

--4

SELECT atype, cid, balance

FROM account

inner JOIN transactions

ON account.ano=transactions.ano;

SELECT b.\*, c.tid, c.ttype, c.tamount FROM transactions AS c INNER JOIN account as b ON (c.tdate='2023/03/19' and b.ano=c.ano);

--5

CREATE TRIGGER update\_balance

ON transactions

AFTER INSERT

AS

BEGIN

UPDATE ACCOUNT

SET BALANCE = balance + t.tamount

from account a inner join TRANSACTIONS t on t.ano=a.ano;

END;

insert into TRANSACTIONS values(005, 056789, 'Deposit', '2023/02/20', 544);

SELECT \* FROM account;

--6

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

-- =============================================

-- Author: Mahasri

-- Create date:

-- Description:

-- =============================================

CREATE or alter FUNCTION udf\_CityOfLeena(@cname nvarchar(20))

RETURNS TABLE

AS

RETURN

(

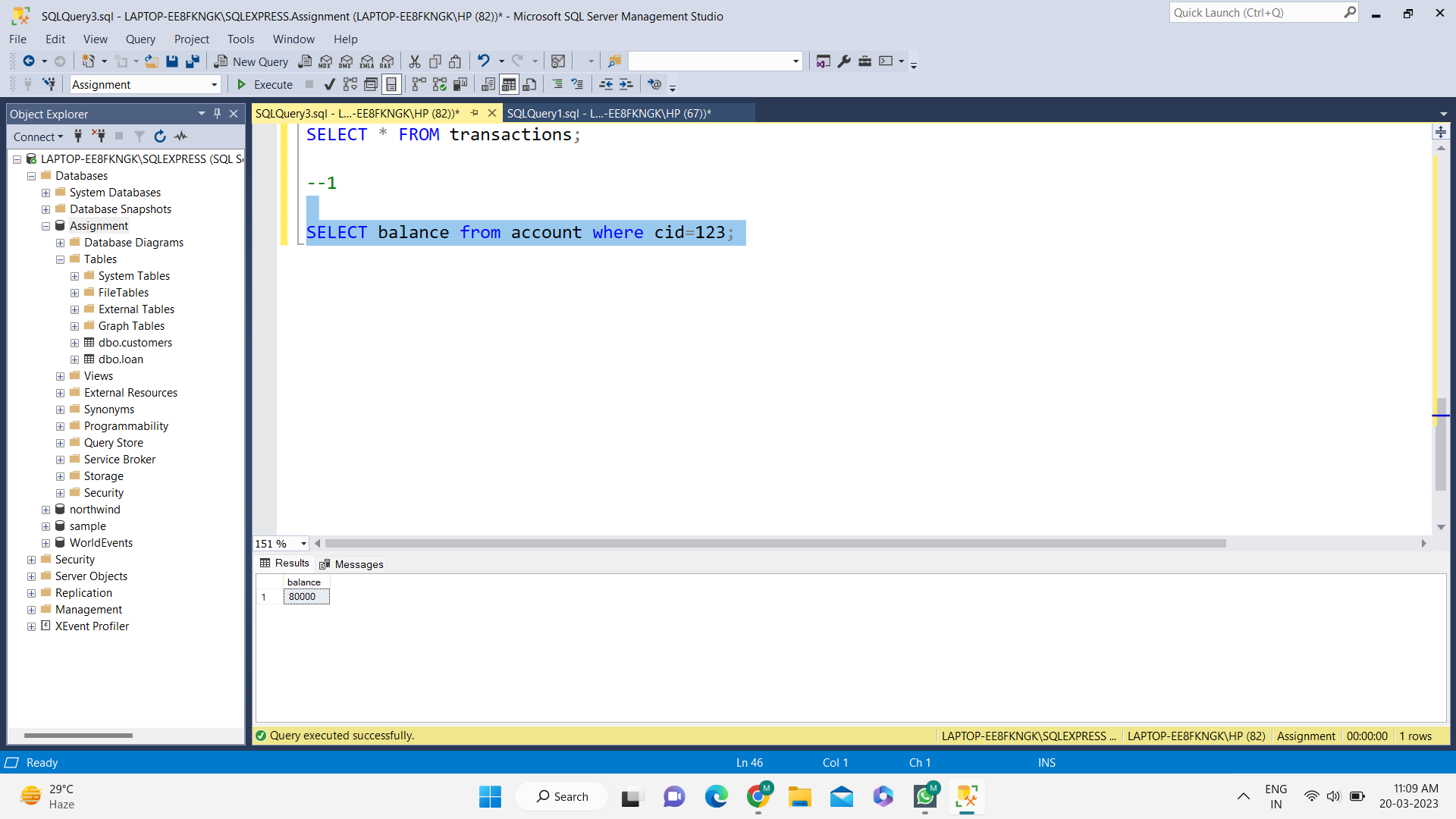
select CCITY from CUSTOMER where cname=@cname

)

GO

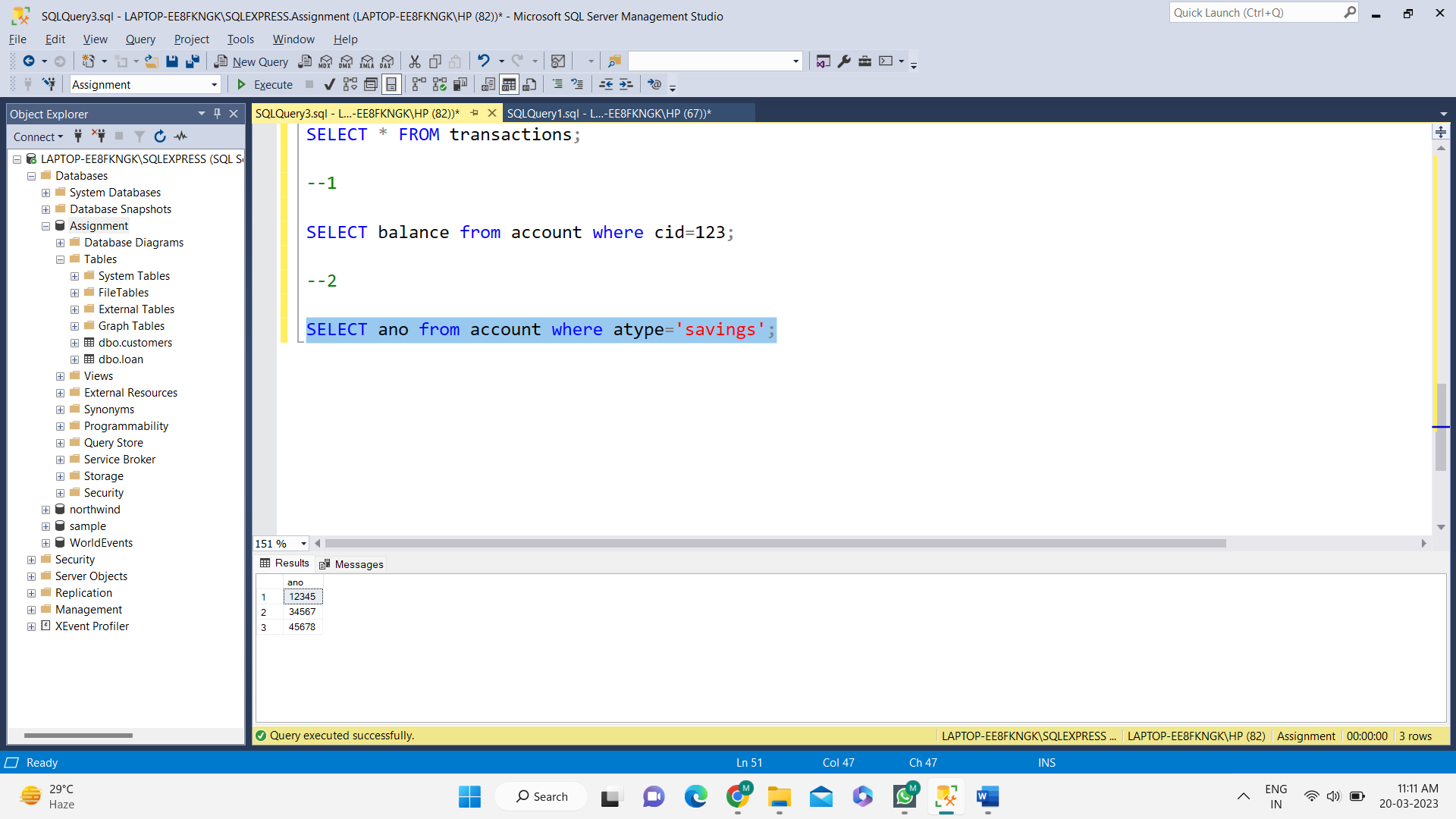
select \* from udf\_CityOfLeena('Leena');

1. **List the balance in account 123**

SELECT balance from account where cid=123;

1. **List the account number of accounts with type Savings**

SELECT ano from account where atype='savings';



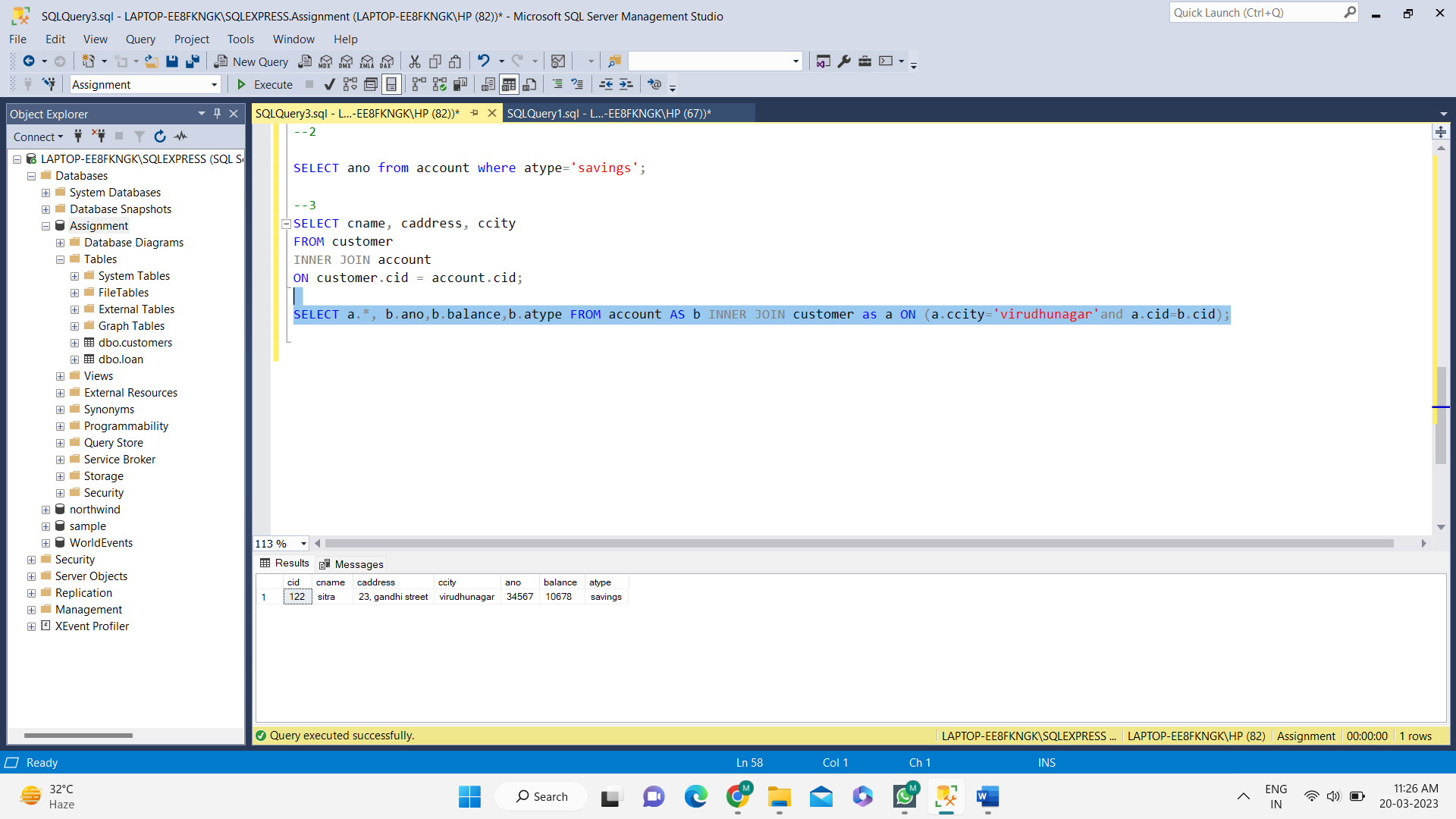
1. **List the details of customers in virudhunagar.**

SELECT cname, caddress, ccity

FROM customer

INNER JOIN account

ON customer.cid = account.cid;

SELECT a.\*, b.ano,b.balance,b.atype FROM account AS b INNER JOIN customer as a ON (a.ccity='virudhunagar'and a.cid=b.cid);

1. **List the details of customers who had transactions yesterday.**

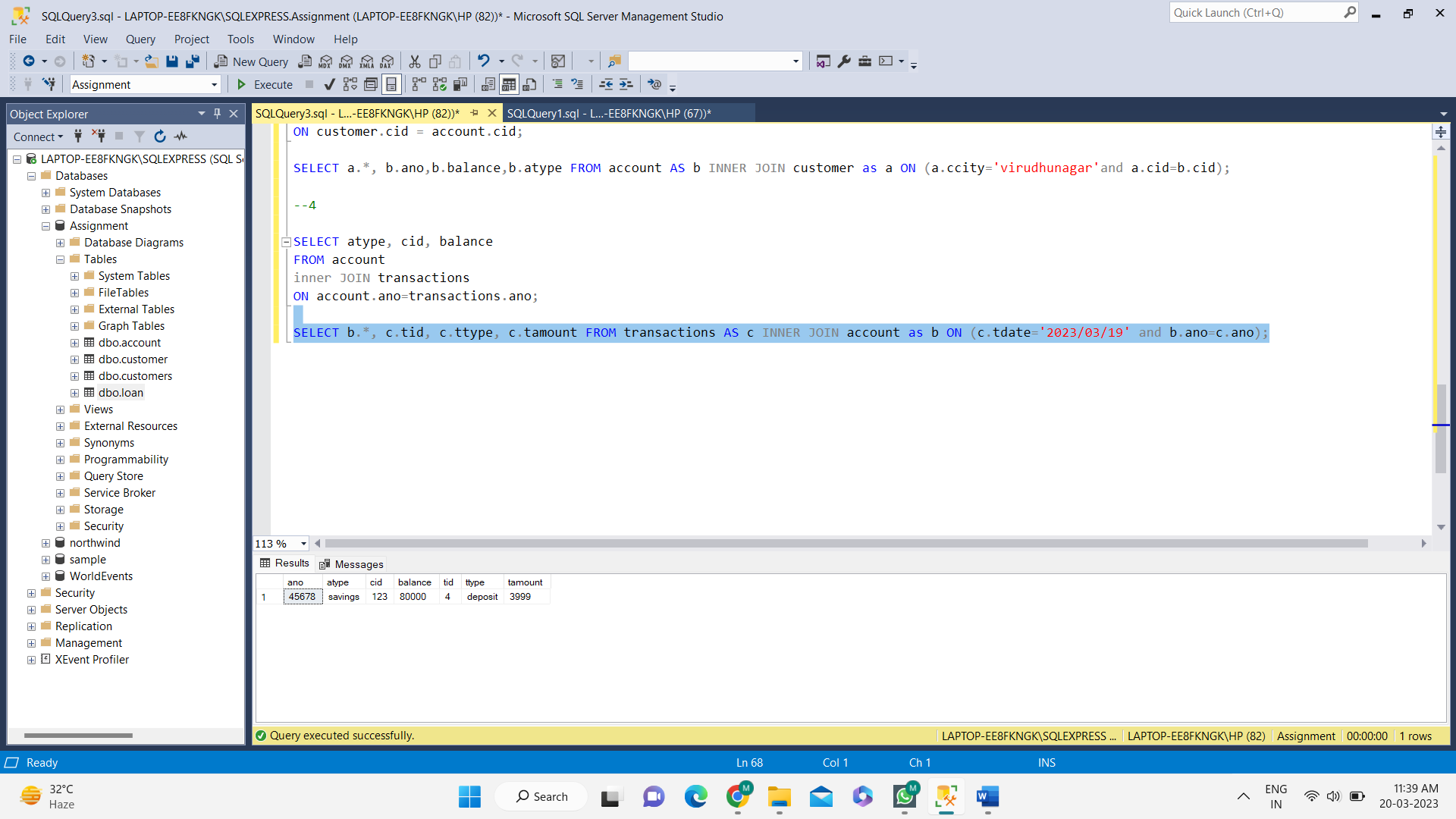
SELECT atype, cid, balance

FROM account

inner JOIN transactions

ON account.ano=transactions.ano;

SELECT b.\*, c.tid, c.ttype, c.tamount FROM transactions AS c INNER JOIN account as b ON (c.tdate='2023/03/19' and b.ano=c.ano);



**e) Create a trigger that will update the value of BALANCE in ACCOUNT table when a record is inserted in the transaction table.**

CREATE TRIGGER update\_balance

ON transactions

AFTER INSERT

AS

BEGIN

UPDATE ACCOUNT

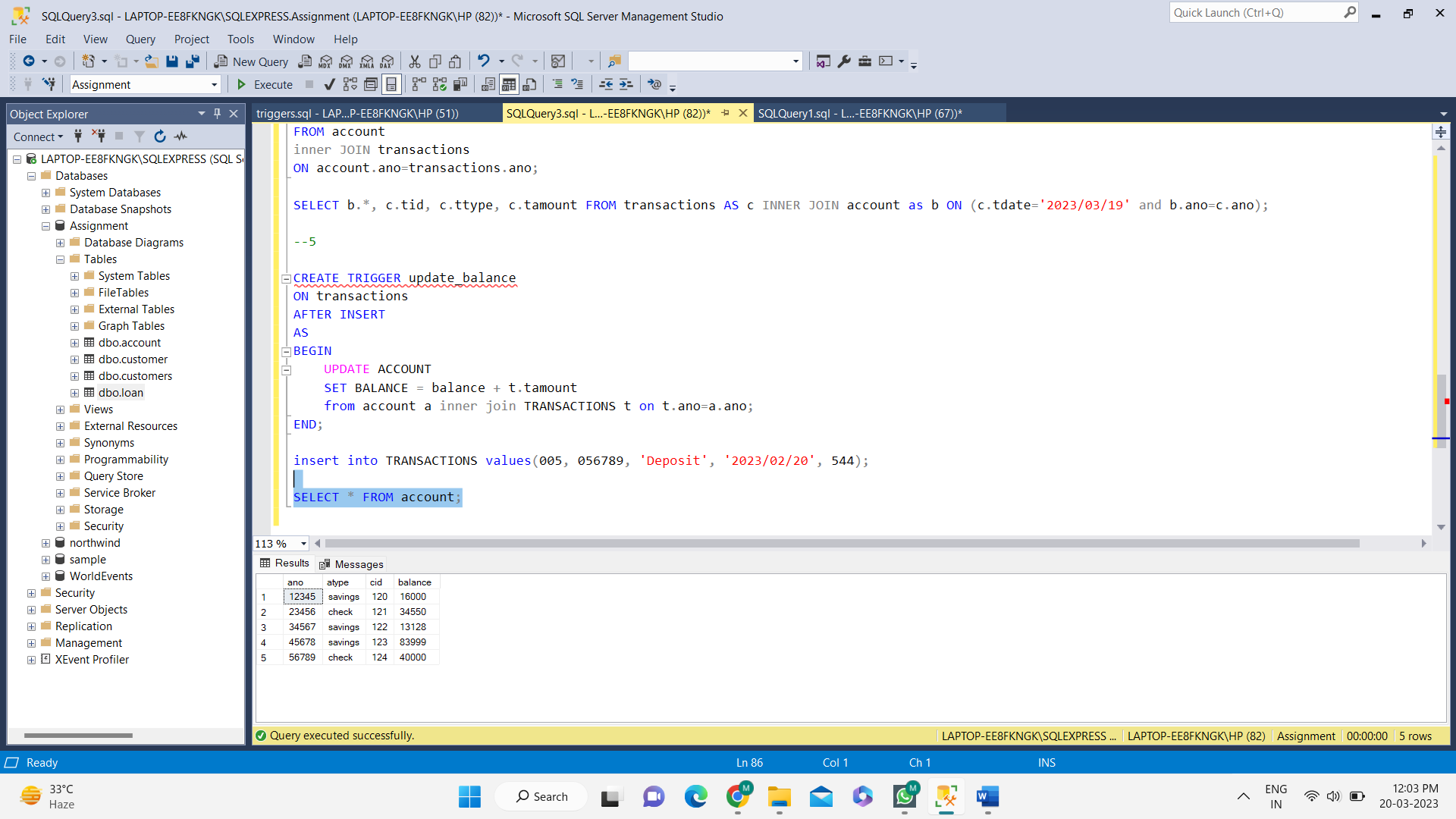
SET BALANCE = balance + t.tamount

from account a inner join TRANSACTIONS t on t.ano=a.ano;

END;

insert into TRANSACTIONS values(005, 056789, 'Deposit', '2023/02/20', 544);

SELECT \* FROM account;



**f) Write a function to display the city of Leena.**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

-- =============================================

-- Author: Mahasri

-- Create date:

-- Description:

-- =============================================

CREATE or alter FUNCTION udf\_CityOfLeena(@cname nvarchar(20))

RETURNS TABLE

AS

RETURN

(

select CCITY from CUSTOMER where cname=@cname

)

GO

select \* from udf\_CityOfLeena('Leena');

