**Assessment March 20 2023**

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Driver table

create table driver

(

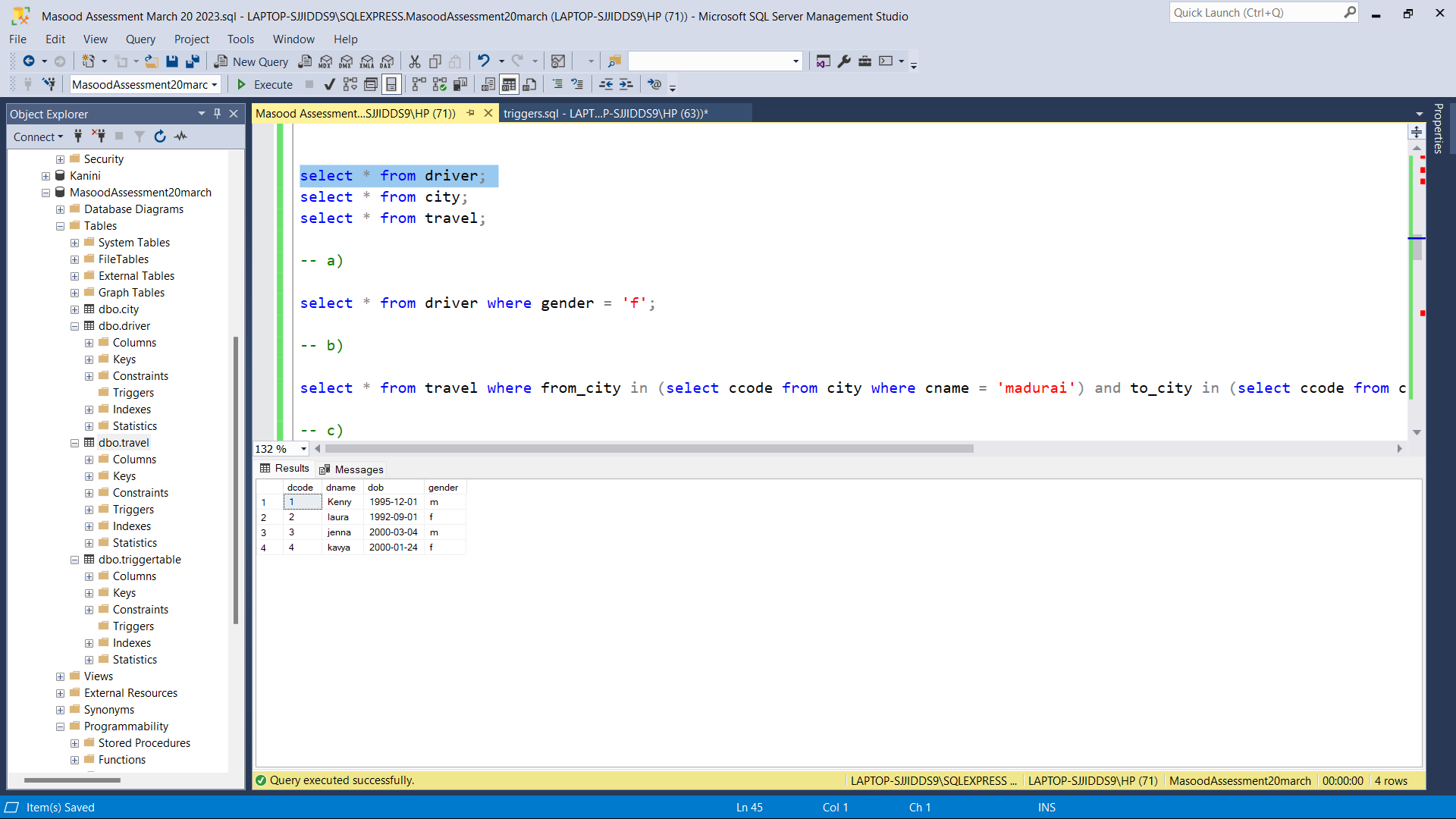
dcode int primary key,

dname varchar(255),

dob date,

gender varchar(255)

)



City table

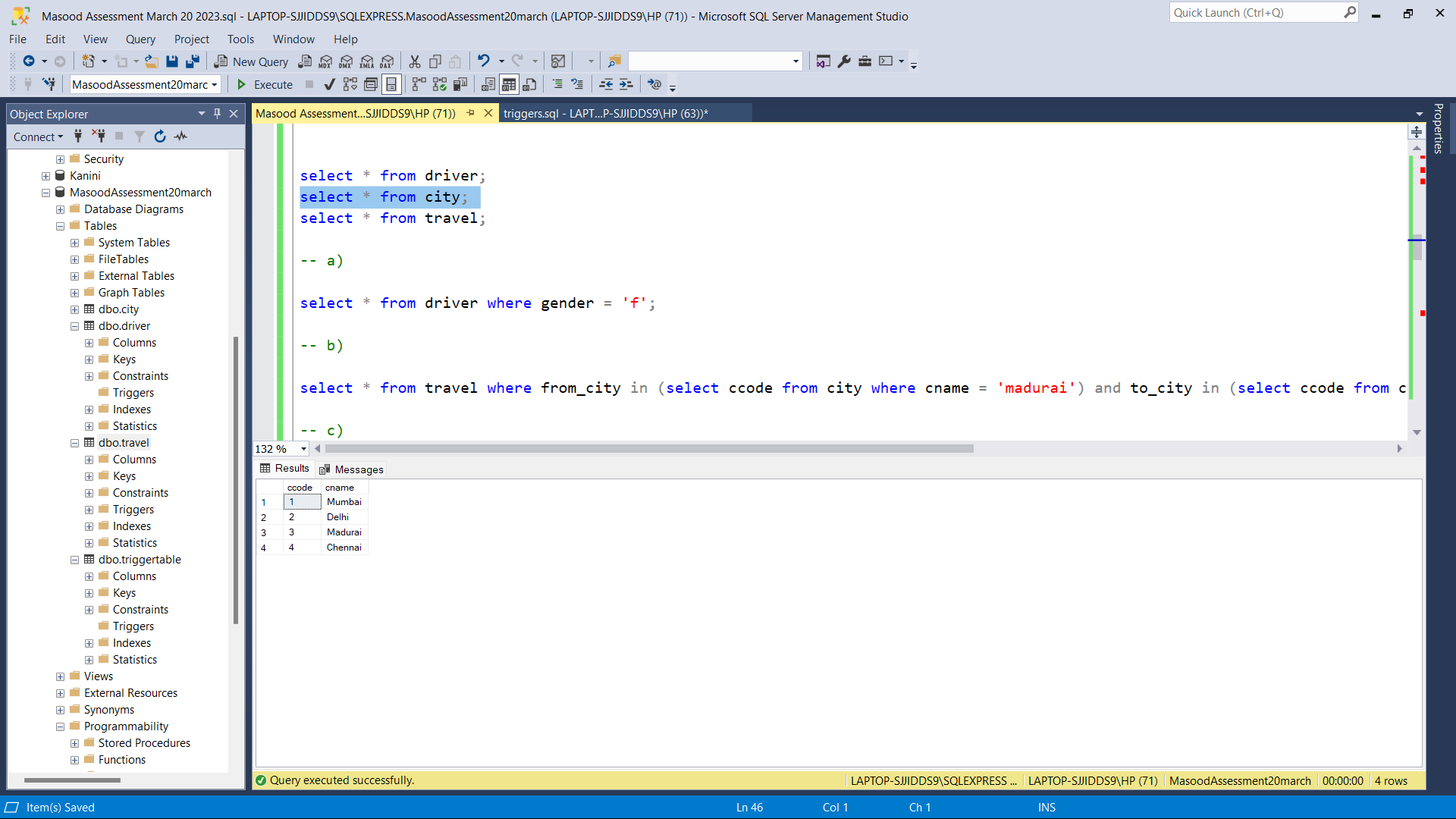
create table city

(

ccode int primary key,

cname varchar(255),

)



Travel table

create table travel

(

tripid int primary key,

dcode int foreign key

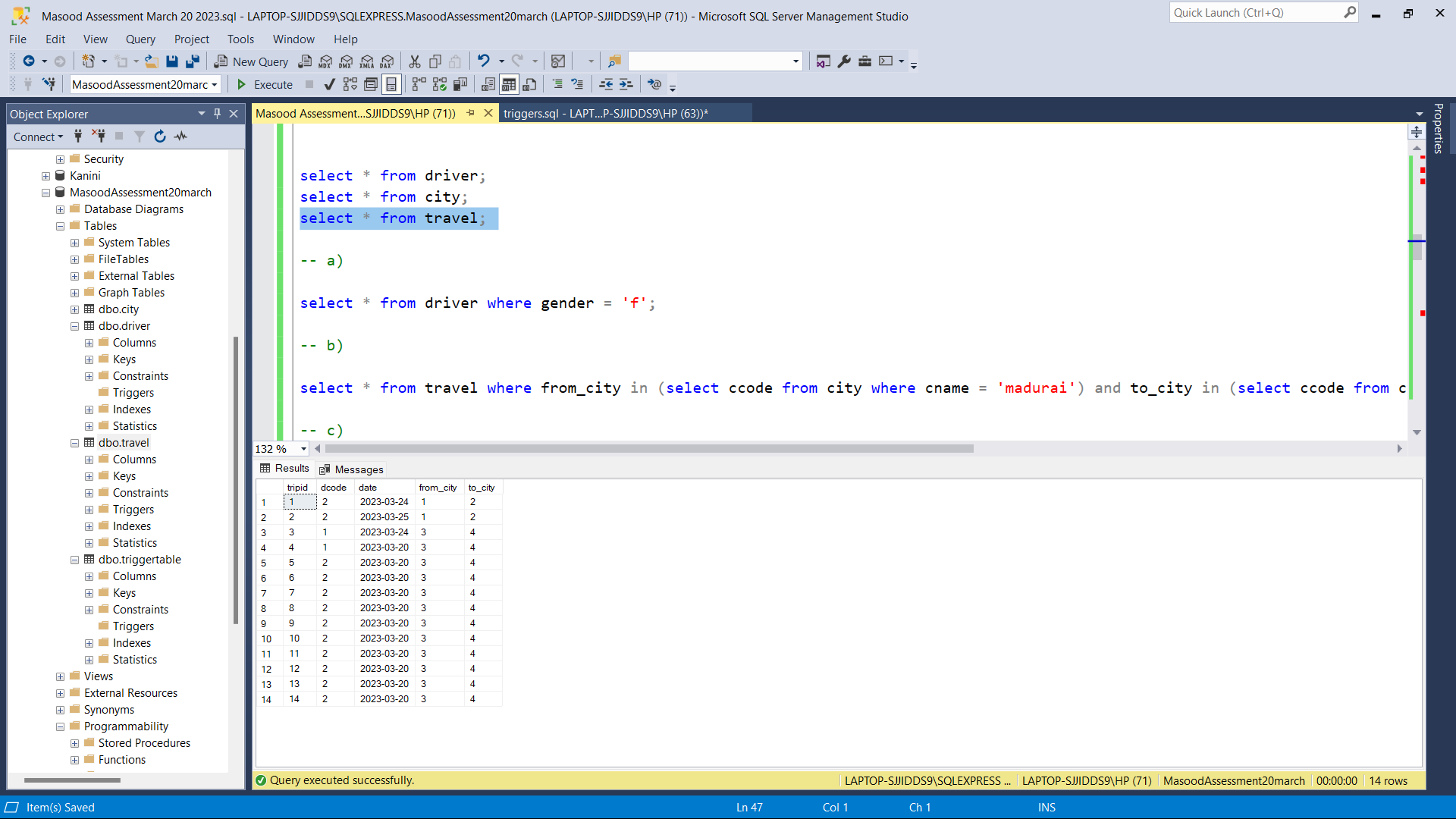
references driver(dcode),

date date,

from\_city int,

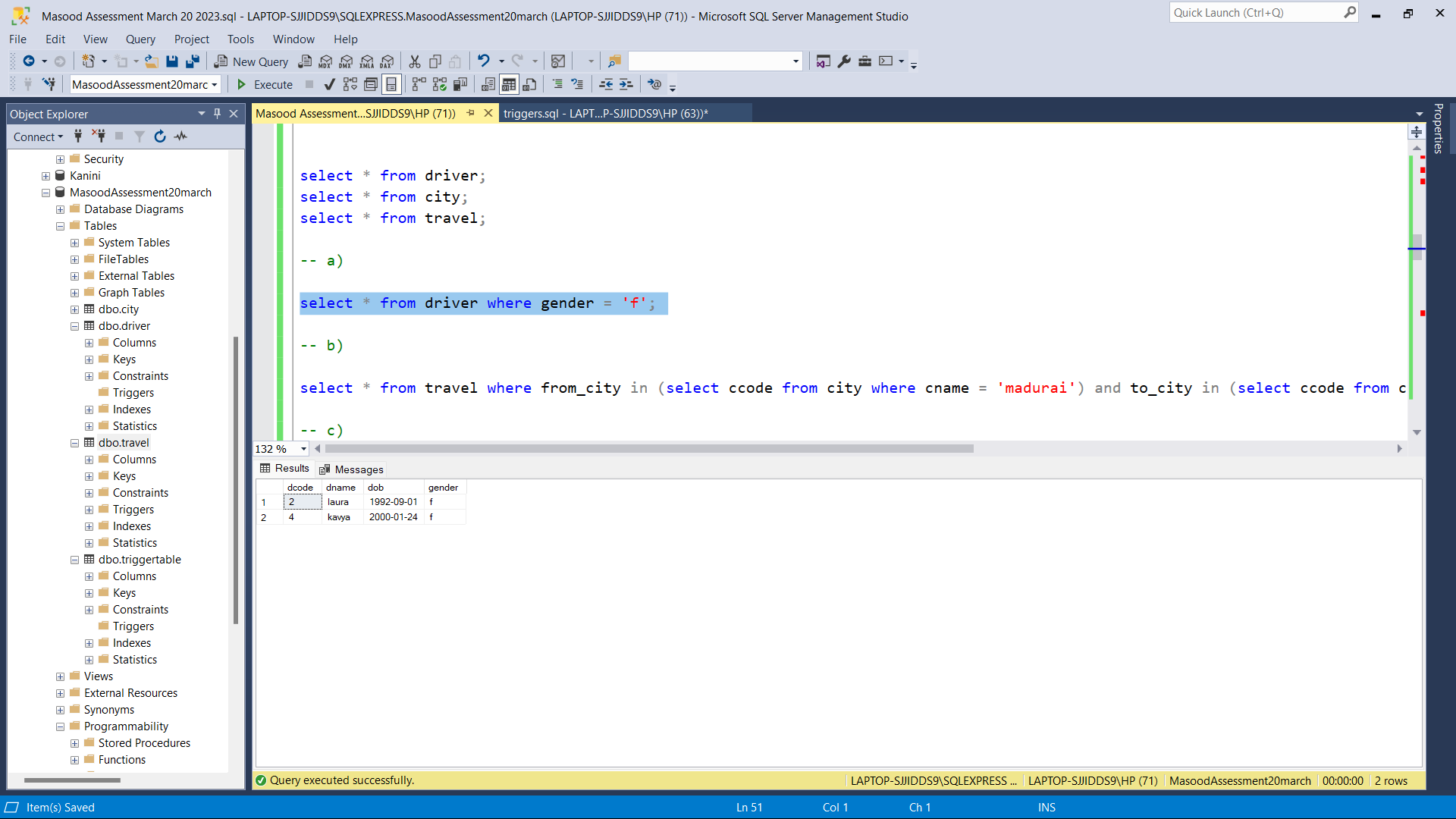
to\_city int

)



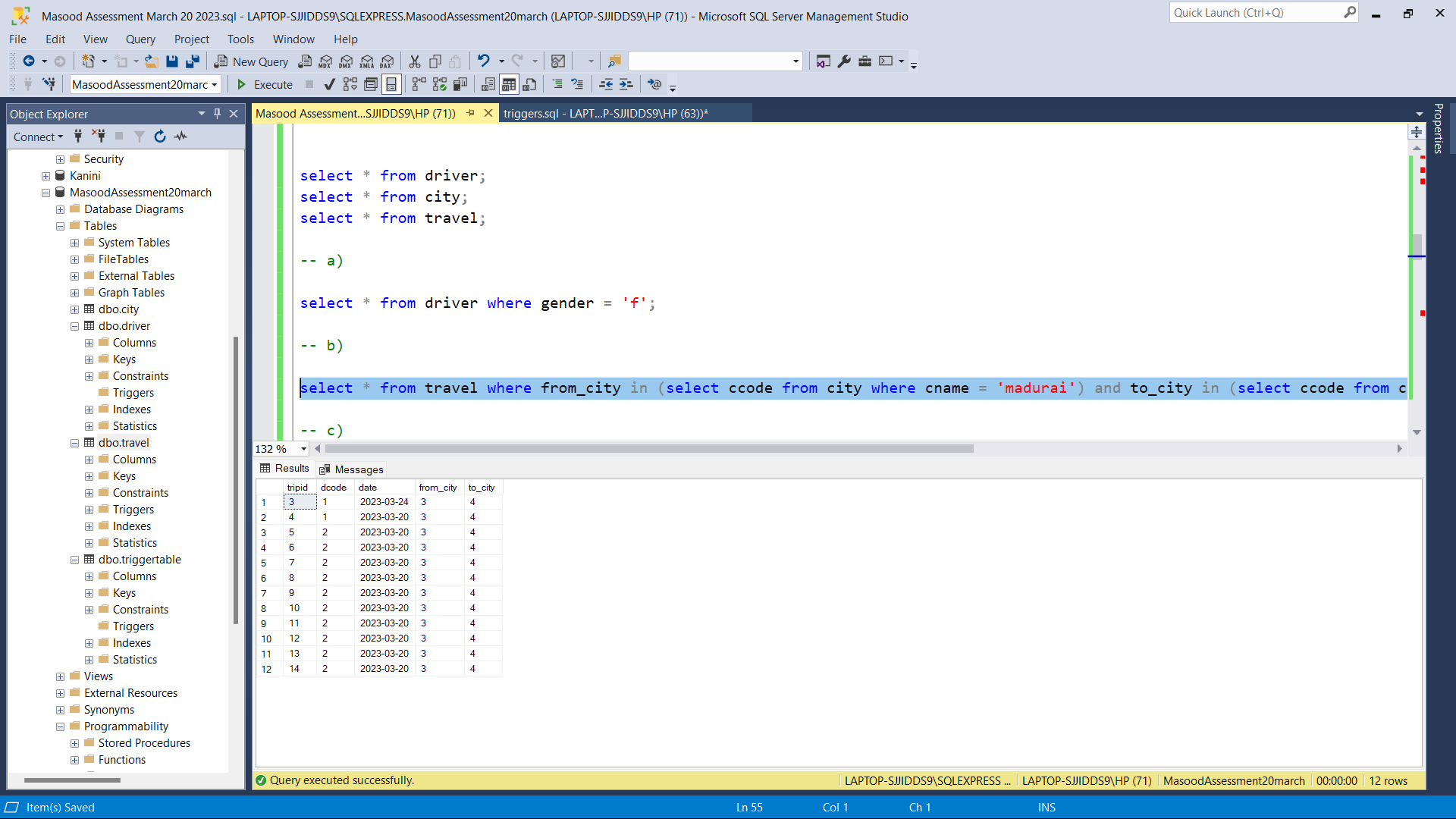
A)

select \* from driver where gender = 'f';



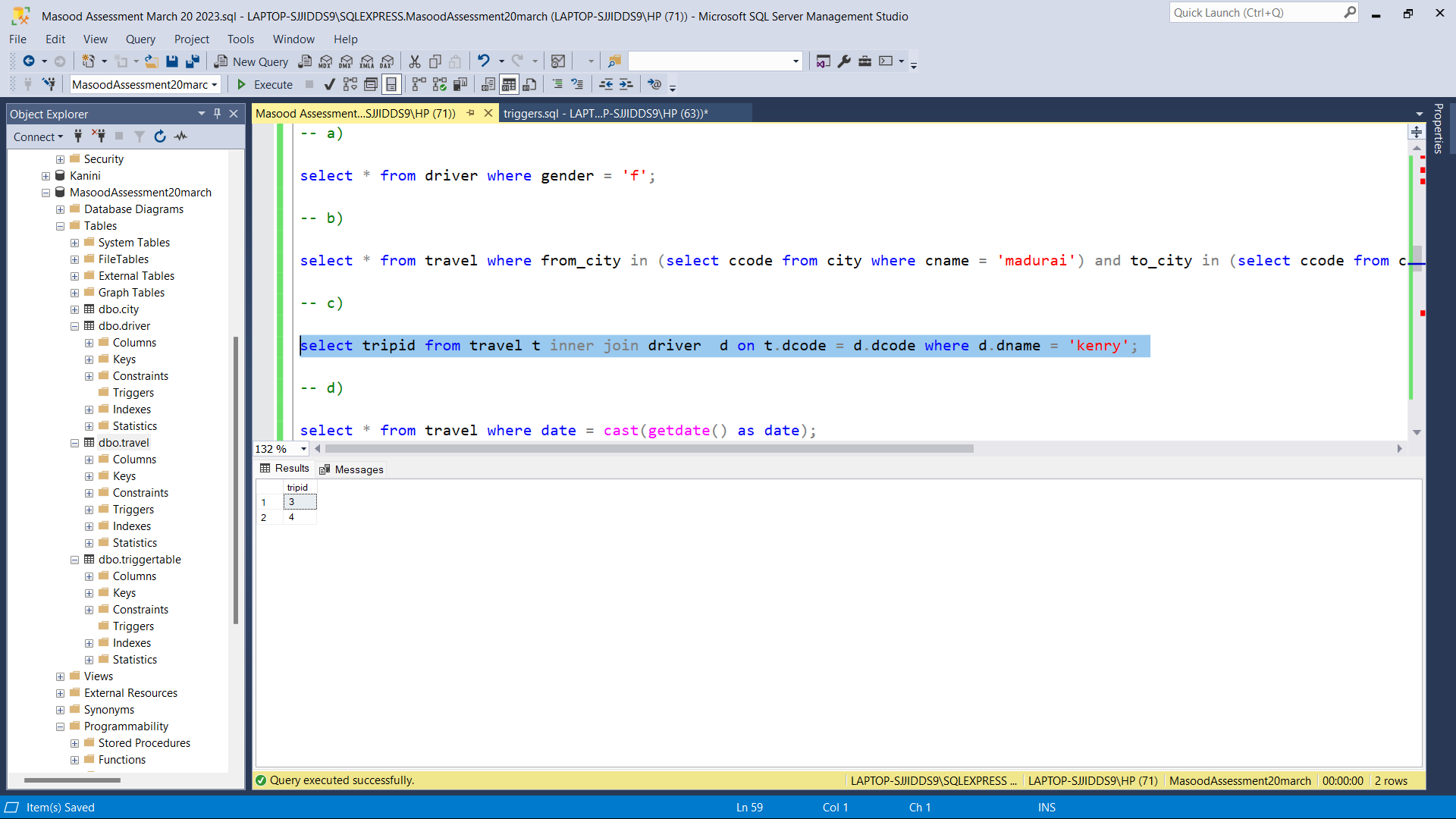
B)

select \* from travel where from\_city in (select ccode from city where cname = 'madurai') and to\_city in (select ccode from city where cname = 'chennai');

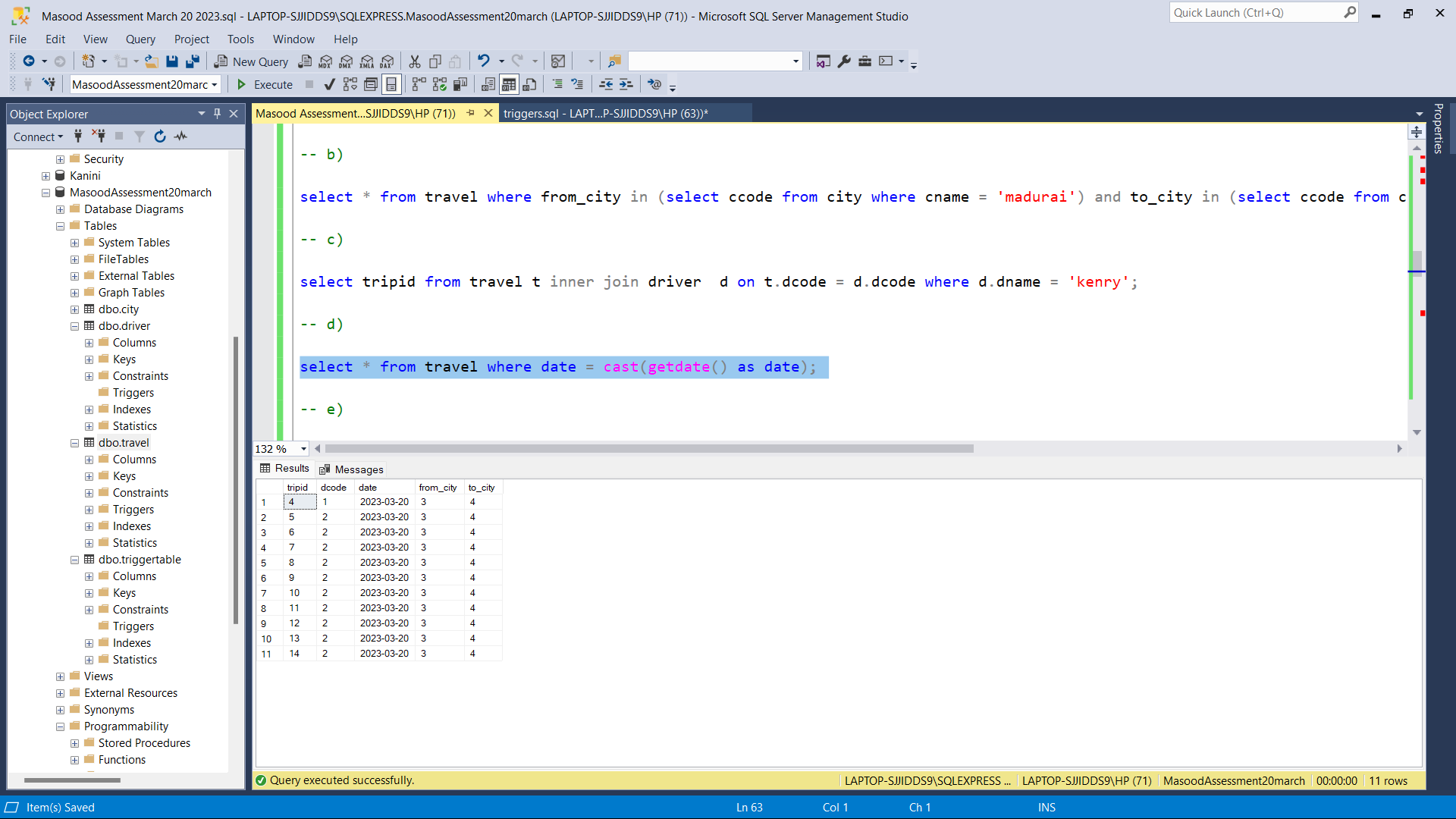


C)

select tripid from travel t inner join driver d on t.dcode = d.dcode where d.dname = 'kenry';

D)

select \* from travel where date = cast(getdate() as date);



E)

create or alter function tot\_trips()

returns table

as

return

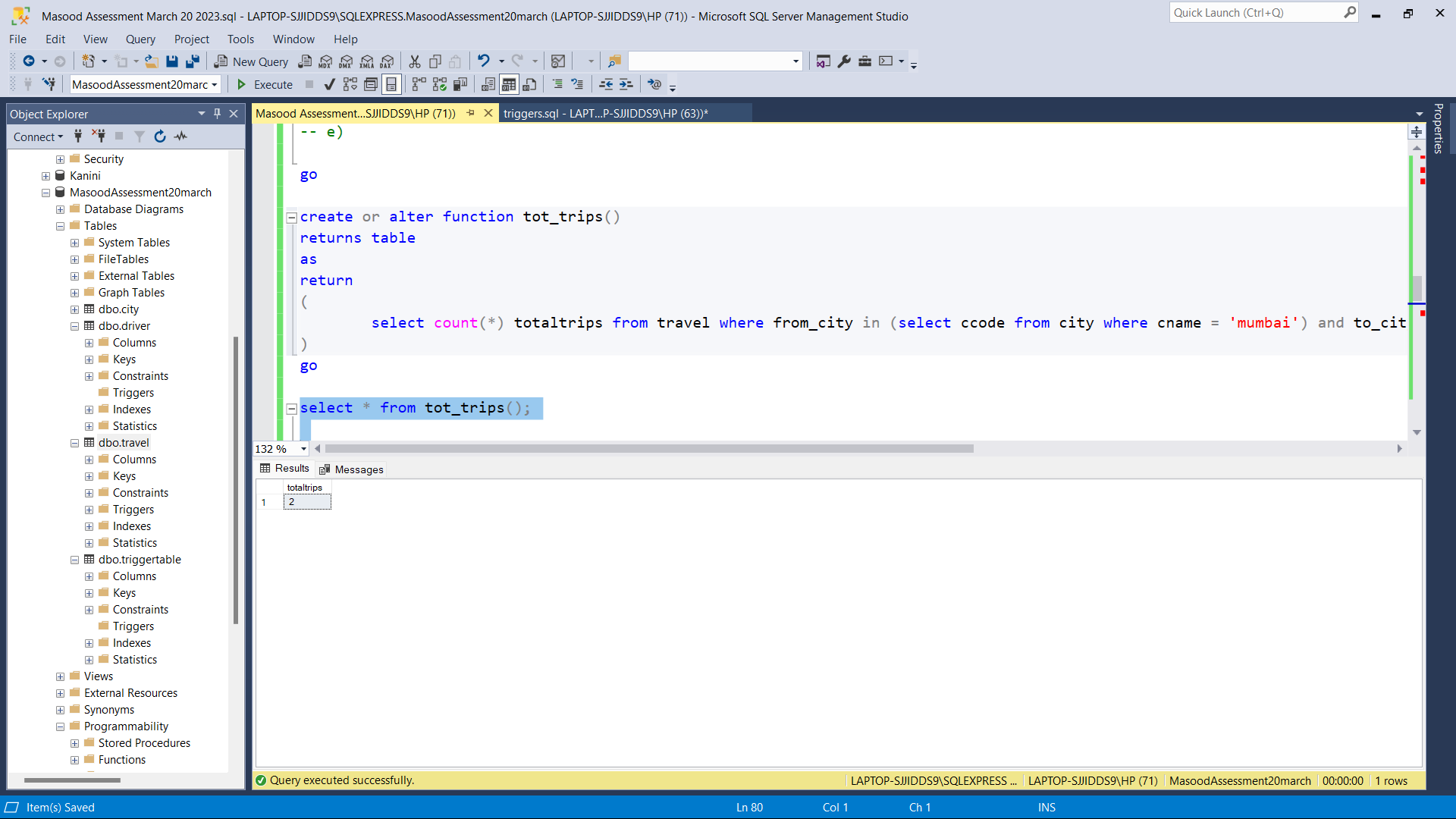
(

select count(\*) totaltrips from travel where from\_city in (select ccode from city where cname = 'mumbai') and to\_city in (select ccode from city where cname = 'delhi')

)

go

select \* from tot\_trips();



F)

create table triggertable (

LogID int IDENTITY(1,1) NOT NULL,

UpdatedDate Datetime NOT NULL,

Operation nvarchar(10) NOT NULL

)

go

-- insert

create or alter trigger dbo.travelinsert

on dbo.travel

for insert

AS

INSERT INTO dbo.triggertable(UpdatedDate,Operation)select getdate(), 'INSERT' from inserted;

go

insert into travel values(15,2,'2023-03-20',3,4);

go

-- update

create or alter trigger dbo.travelupdate

on dbo.travel

after update

as

INSERT INTO dbo.triggertable(UpdatedDate,Operation)select getdate(),'UPDATE' from deleted;

update travel set dcode = 2 where tripid in (1,2);

update travel set dcode = 1 where tripid in (3,4);

go

-- delete

create or alter trigger dbo.traveldelete

on dbo.travel

instead of delete

AS

INSERT INTO dbo.triggertable(UpdatedDate, Operation)select getdate(), 'DELETE' from deleted;

delete from travel where dcode = 1;

select \* from triggertable;

select \* from travel;

