ANAGHA ACHARYA

1BM19CS224

Lab2: Banking Enterprise Database

create database banking\_enterprise;

use banking\_enterprise;

create table Branch(

branchname varchar(30),

branchcity varchar(30),

assets real,

primary key(branchname));

desc Branch;

create table BankAccount(

accno integer,

branchname varchar(30),

balance real,

primary key(accno),

foreign key(branchname) references Branch(branchname));

desc BankAccount;

create table BankCustomer(

customername varchar(30),

customerstreet varchar(30),

customercity varchar(30),

primary key(customername));

desc BankCustomer;

create table Depositer(

customername varchar(30),

accno integer,

primary key(customername, accno),

foreign key(customername) references BankCustomer(customername),

foreign key(accno) references BankAccount(accno));

desc Depositer;

create table Loan(

loannumber int,

branchname varchar(30),

amount real,

primary key(loannumber),

foreign key(branchname) references Branch(branchname));

desc Loan;

insert into Branch values('SBI\_Chamarajpet','Bangalore',50000);

insert into Branch values('SBI\_ResidencyRoad','Bangalore',10000);

insert into Branch values('SBI\_ShivajiRoad','Bombay',20000);

insert into Branch values('SBI\_ParliamentRoad','Delhi',10000);

insert into Branch values('SBI\_Jantarmantar','Delhi',20000);

commit;

select \* from Branch;

insert into Loan values(1,'SBI\_Chamarajpet',1000);

insert into Loan values(2,'SBI\_ResidencyRoad',2000);

insert into Loan values(3,'SBI\_ShivajiRoad',3000);

insert into Loan values(4,'SBI\_ParliamentRoad',4000);

insert into Loan values(5,'SBI\_Jantarmantar',5000);

commit;

select \* from Loan;

insert into BankAccount values(1,'SBI\_Chamarajpet',2000);

insert into BankAccount values(2,'SBI\_ResidencyRoad',5000);

insert into BankAccount values(3,'SBI\_ShivajiRoad',6000);

insert into BankAccount values(4,'SBI\_ParliamentRoad',9000);

insert into BankAccount values(5,'SBI\_Jantarmantar',8000);

insert into BankAccount values(6,'SBI\_ShivajiRoad',4000);

insert into BankAccount values(8,'SBI\_ResidencyRoad',4000);

insert into BankAccount values(9,'SBI\_ParliamentRoad',3000);

insert into BankAccount values(10,'SBI\_ResidencyRoad',5000);

insert into BankAccount values(11,'SBI\_Jantarmantar',2000);

commit;

select \* from BankAccount;

insert into BankCustomer values('Avinash','Bull\_Temple\_Road','Bangalore');

insert into BankCustomer values('Dinesh','Bannerghatta\_Road','Bangalore');

insert into BankCustomer values('Mohan','NationalCollegeRoad','Bangalore');

insert into BankCustomer values('Nikhil','Gulmohar\_Marg','Delhi');

insert into BankCustomer values('Ravi','Prithviraj\_Road','Delhi');

commit;

select \* from BankCustomer;

insert into Depositer values('Avinash',1);

insert into Depositer values('Dinesh',2);

insert into Depositer values('Nikhil',4);

insert into Depositer values('Ravi',5);

insert into Depositer values('Avinash',8);

insert into Depositer values('Nikhil',9);

insert into Depositer values('Dinesh',10);

insert into Depositer values('Nikhil',11);

commit;

select \* from Depositer;

select c.customername

from BankCustomer c

where exists(

select d.customername

from depositer d, BankAccount ba

where

d.accno=ba.accno and

c.customername=d.customername and

ba.branchname='SBI\_ResidencyRoad'

group by d.customername

having count(d.customername)>=2

);

select d.customername from Depositer d,Branch b,BankAccount ba

where b.branchname=ba.branchname

AND ba.accno=d.accno

and branchcity='Delhi'

group by d.customername

having COUNT(distinct b.branchname)=(select COUNT(branchname) from branch where branchcity='Delhi');

delete from BankAccount

where branchname IN(

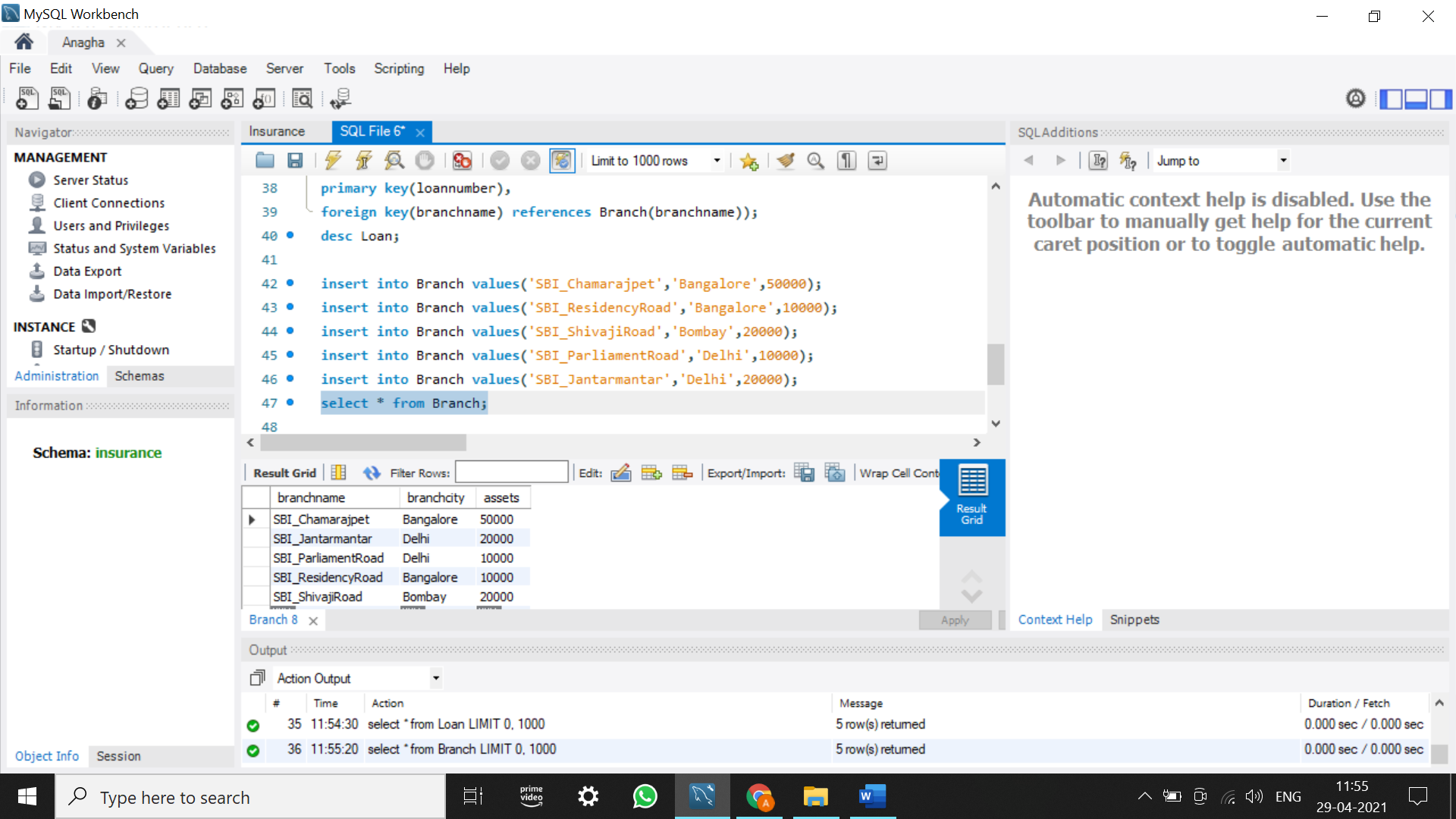
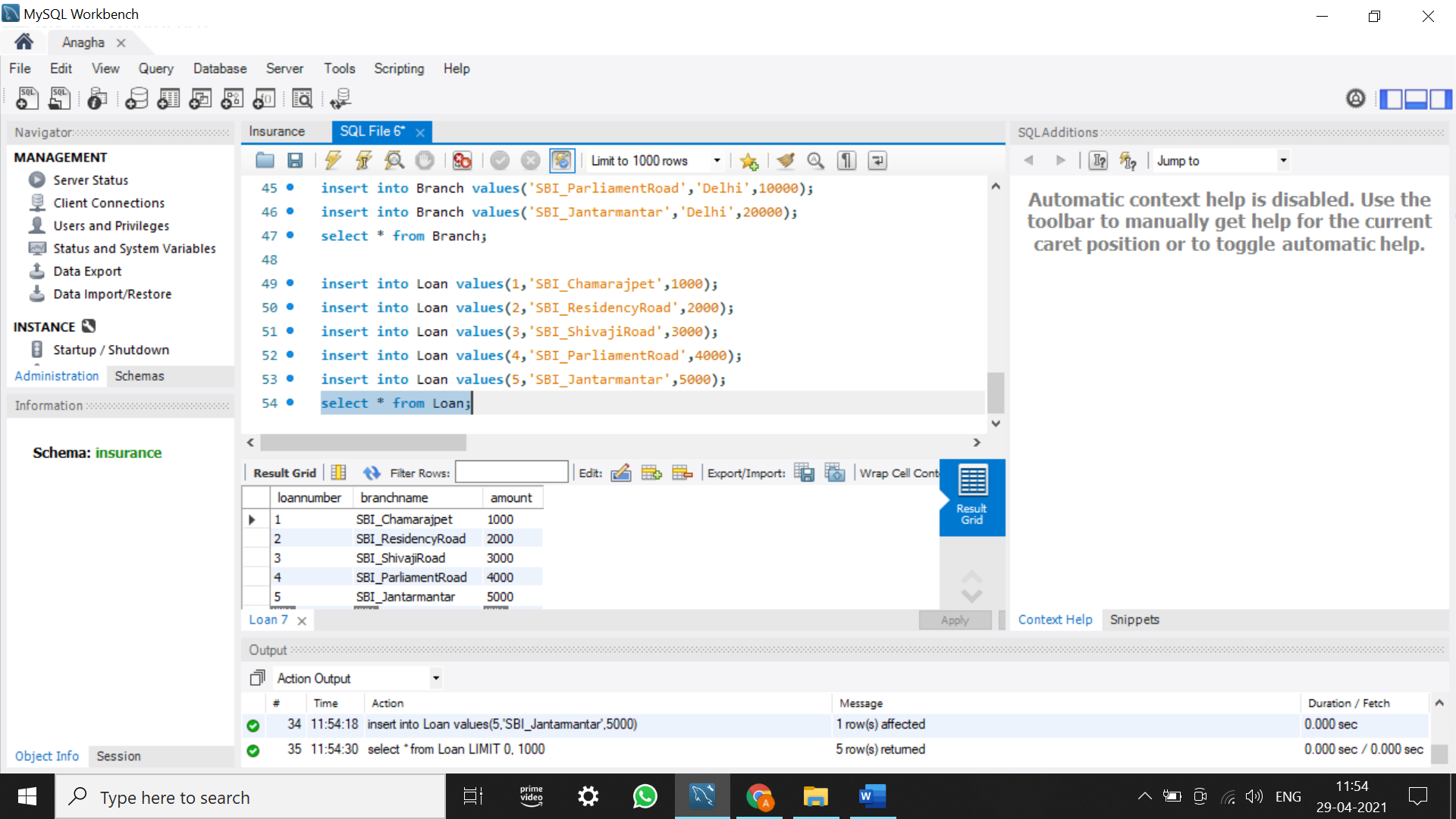
select branchname

from Branch

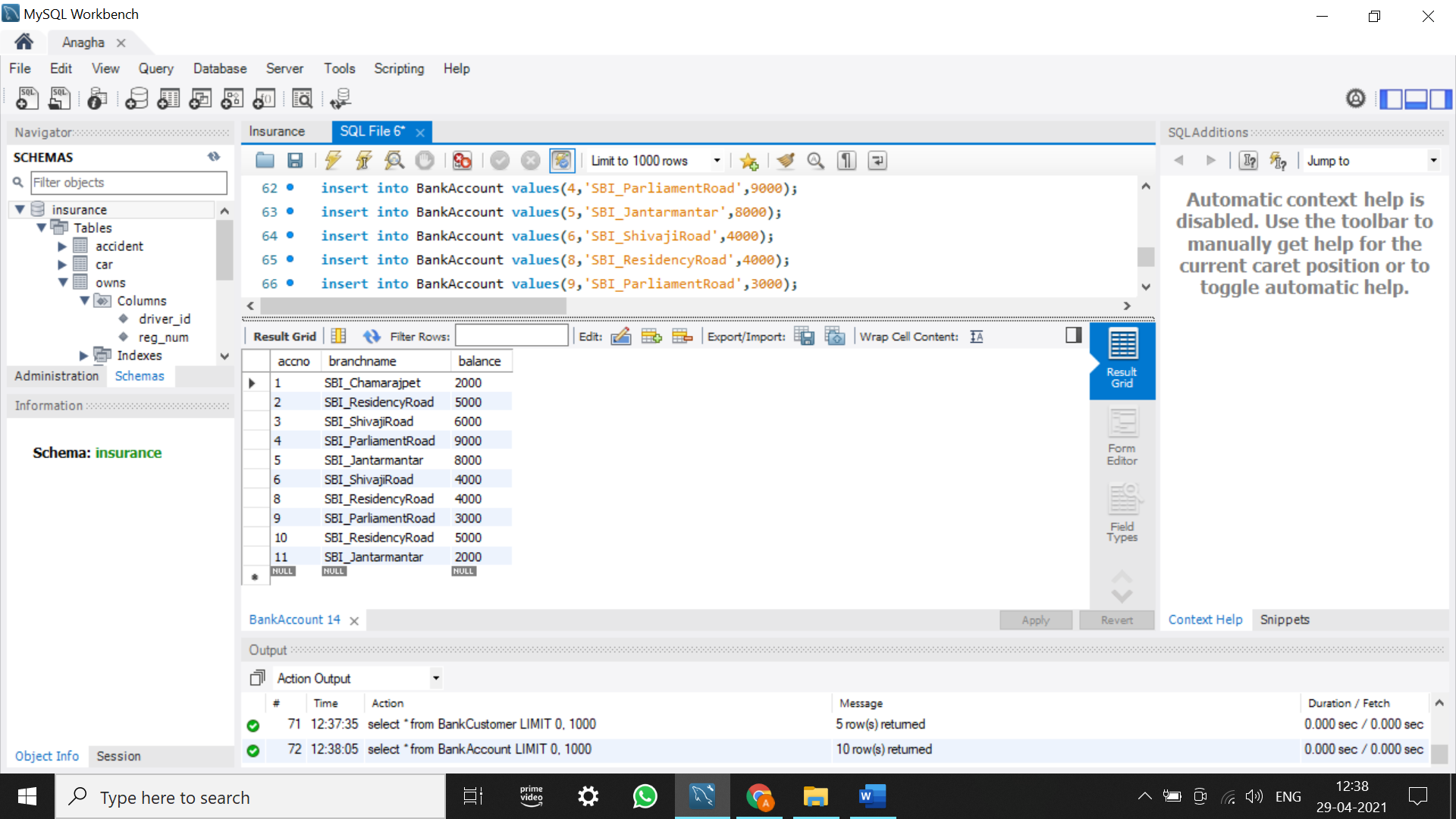
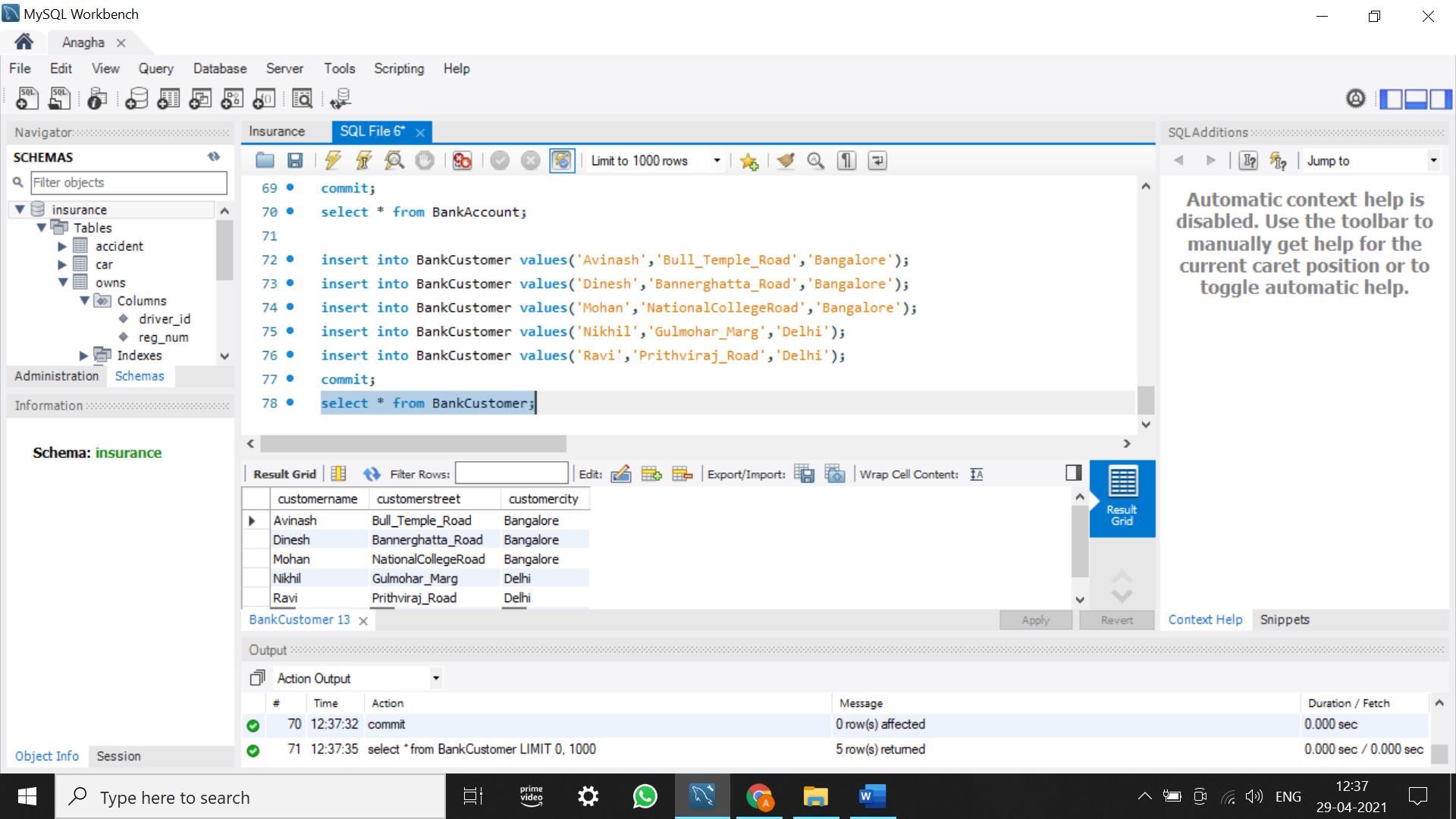
where branchcity='Bombay');

select \* from BankAccount;

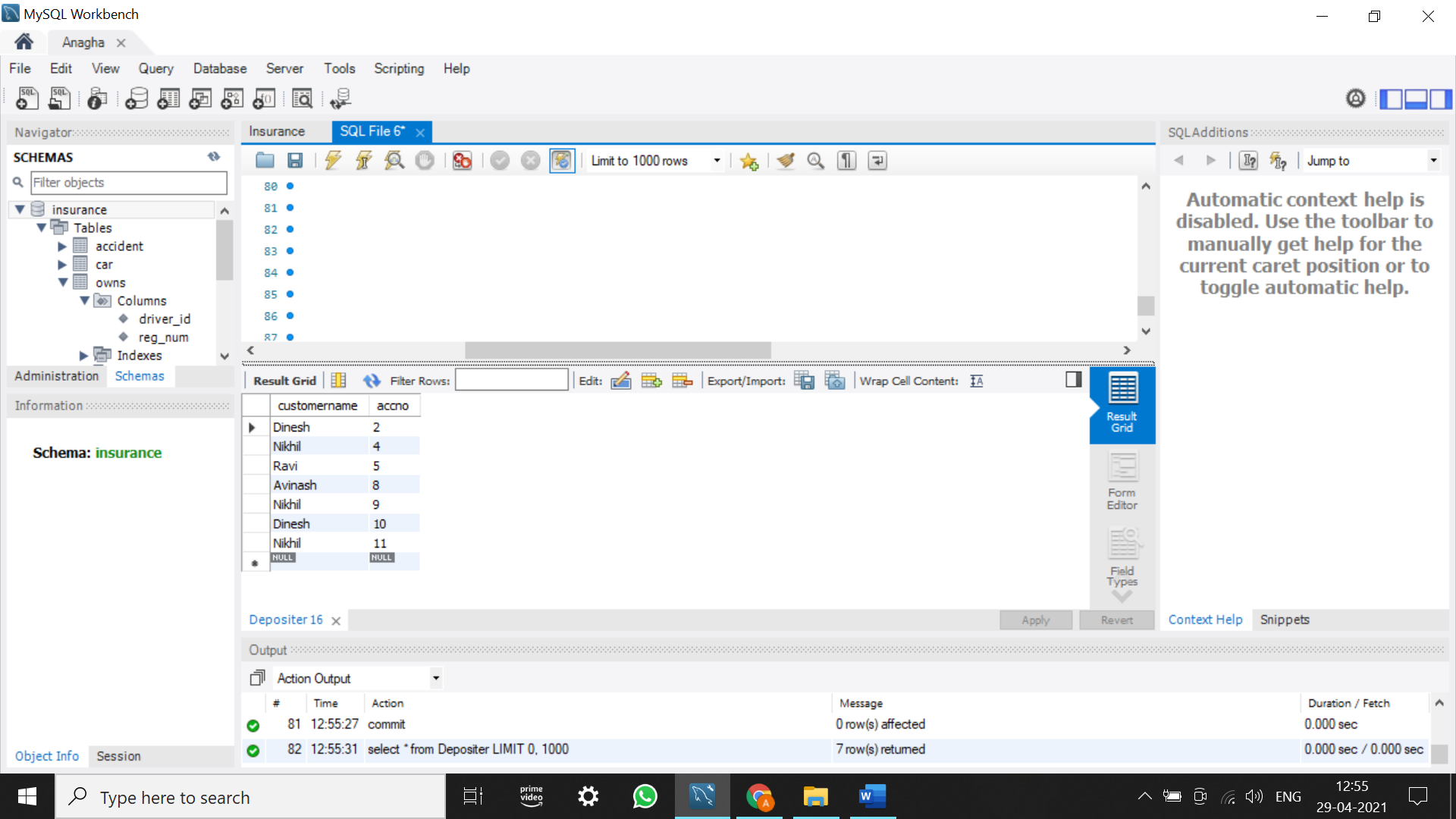
BRANCH: LOAN:



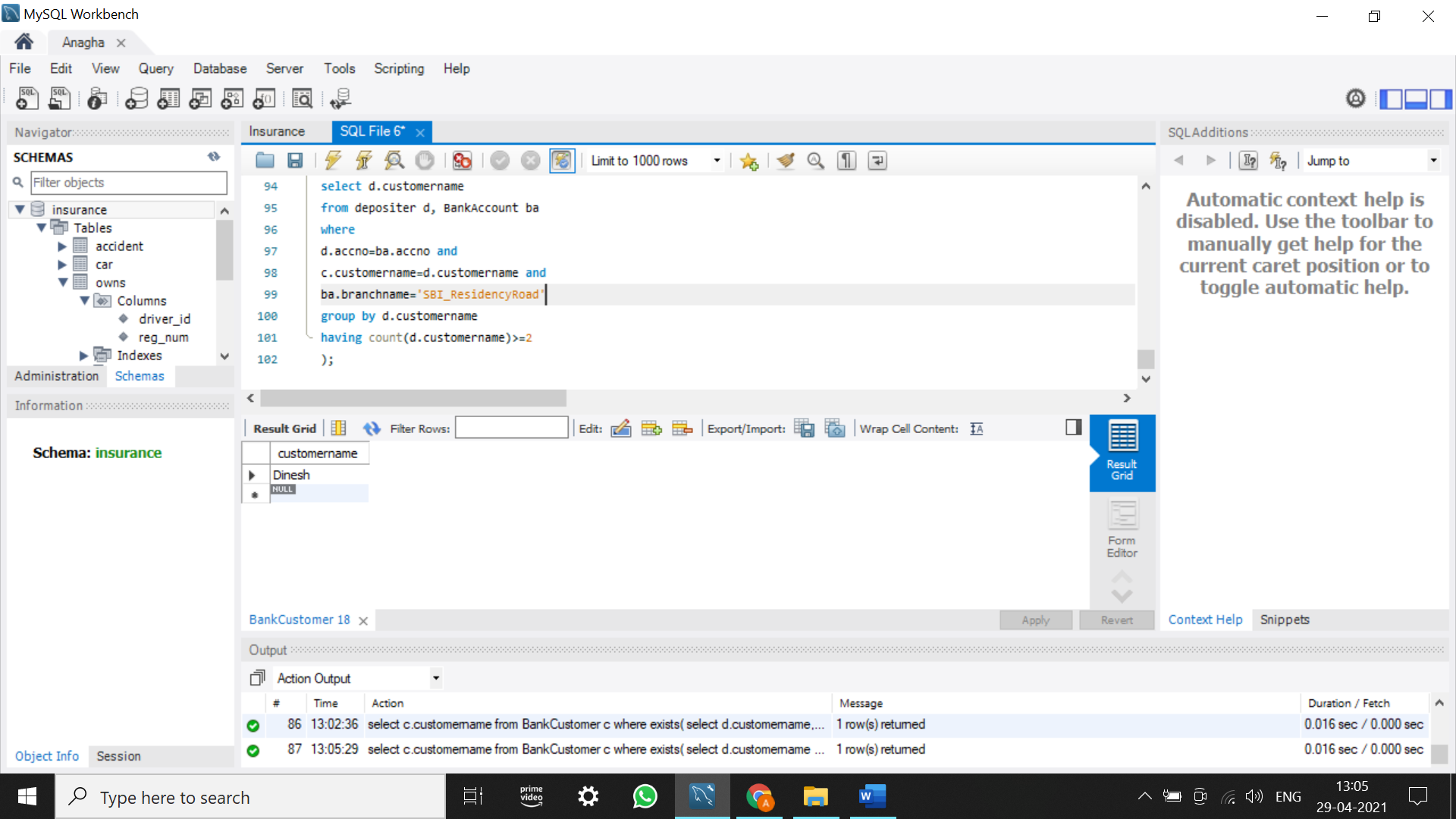
BANK ACCOUNT: BANK CUSTOMER:



DEPOSITER

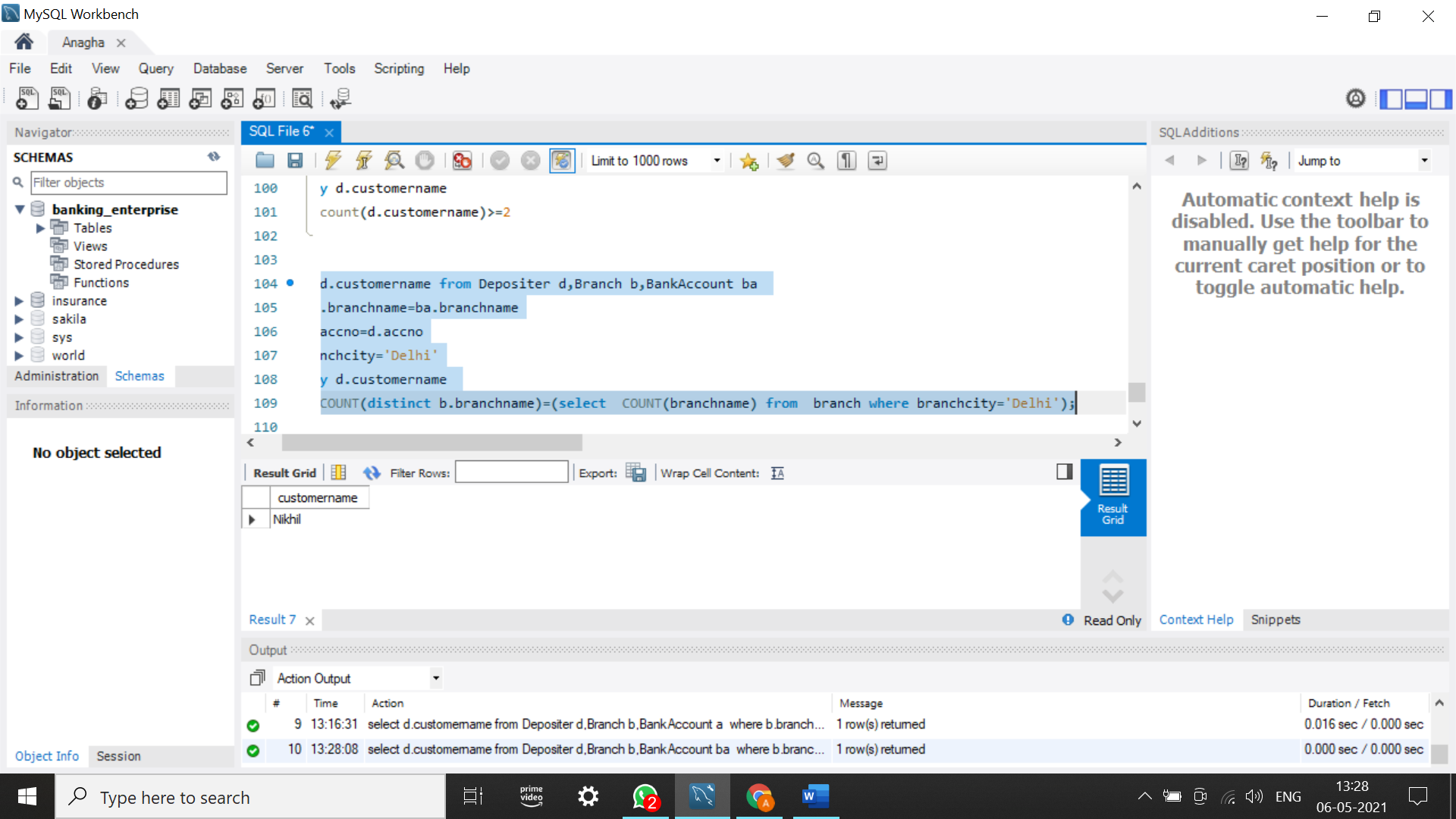


Find all the customers who have at least two accounts at the *Main* branch (ex. SBI\_ResidencyRoad).



Find all the customers who have an account at *all* the branches located in a

specific city (Ex. Delhi).



Demonstrate how you delete all account tuples at every branch located in

a specific city (Ex. Bombay).

