ANAGHA ACHARYA

1BM19CS224

**Consider the following schema for Order Database:**

**SALESMAN (*Salesman\_id, Name, City, Commission*)**

**CUSTOMER (*Customer\_id, Cust\_Name, City, Grade, Salesman\_id*)**

**ORDERS (*Ord\_No, Purchase\_Amt, Ord\_Date, Customer\_id, Salesman\_id*)**

**Write SQL queries to**

**1. Count the customers with grades above Bangalore’s average.**

**2. Find the name and numbers of all salesmen who had more than one customer.**

**3. List all salesmen and indicate those who have and don’t have customers in their cities (Use UNION operation.)**

**4. Create a view that finds the salesman who has the customer with the highest order of a day.**

**5. Demonstrate the DELETE operation by removing salesman with id 1000. All his orders must also be deleted.**

create database orders;

use orders;

create table salesman(

salesman\_id int,

name varchar(20),

city varchar(20),

commission varchar(20),

primary key(salesman\_id));

desc salesman;

create table customer(

customer\_id int,

cust\_name varchar(20),

city varchar(20),

grade int,

salesman\_id int,

primary key(customer\_id),

foreign key(salesman\_id) references salesman(salesman\_id) on delete set null);

desc customer;

create table orders(

ord\_no int,

purchase\_amt int,

ord\_date date,

customer\_id int,

salesman\_id int,

primary key(ord\_no),

foreign key(customer\_id) references customer(customer\_id) on delete cascade,

foreign key(salesman\_id) references salesman(salesman\_id) on delete cascade);

desc orders;

insert into salesman values(1000,'John','Bangalore','25%');

insert into salesman values(2000,'Ravi','Bangalore','20%');

insert into salesman values(3000,'Kumar','Mysore','15%');

insert into salesman values(4000,'Sunil','Delhi','30%');

insert into salesman values(5000,'Harsha','Hyderabad','15%');

commit;

select \* from salesman;

insert into customer values(10,'Preethi','Bangalore',100,1000);

insert into customer values(11,'Vivel','Mangalore',300,1000);

insert into customer values(12,'Baskaran','Chennai',400,2000);

insert into customer values(13,'Chethan','Bangalore',200,2000);

insert into customer values(14,'Suchitra','Bangalore',400,3000);

commit;

select \* from customer;

insert into orders values(50,5000,'2017-05-04',10,1000);

insert into orders values(51,450,'2017-01-20',10,2000);

insert into orders values(52,1000,'2017-02-24',13,2000);

insert into orders values(53,3500,'2017-04-13',14,3000);

insert into orders values(54,550,'2017-03-09',12,2000);

commit;

select \* from orders;

#Query1

select grade,count(customer\_id)

from customer

group by grade

having grade>(select avg(grade) from customer where city='Bangalore');

#Query2

select s.name,s.salesman\_id

from salesman s

where 1<(select count(\*) from customer where salesman\_id=s.salesman\_id);

#Query3

select s.salesman\_id,s.name,c.cust\_name,s.commission

from salesman s, customer c

where s.city=c.city

union

select s1.salesman\_id,s1.name,'No match',s1.commission

from salesman s1

where not city=any(select city from customer order by city desc);

#Query4

create view highestsales

as select s.salesman\_id,s.name,o.ord\_date

from salesman s, orders o

where s.salesman\_id=o.salesman\_id

and o.purchase\_amt=(select max(purchase\_amt) from orders o1 where o1.ord\_date=o.ord\_date);

select \* from highestsales;

#Query6

delete from salesman

where salesman\_id=1000;

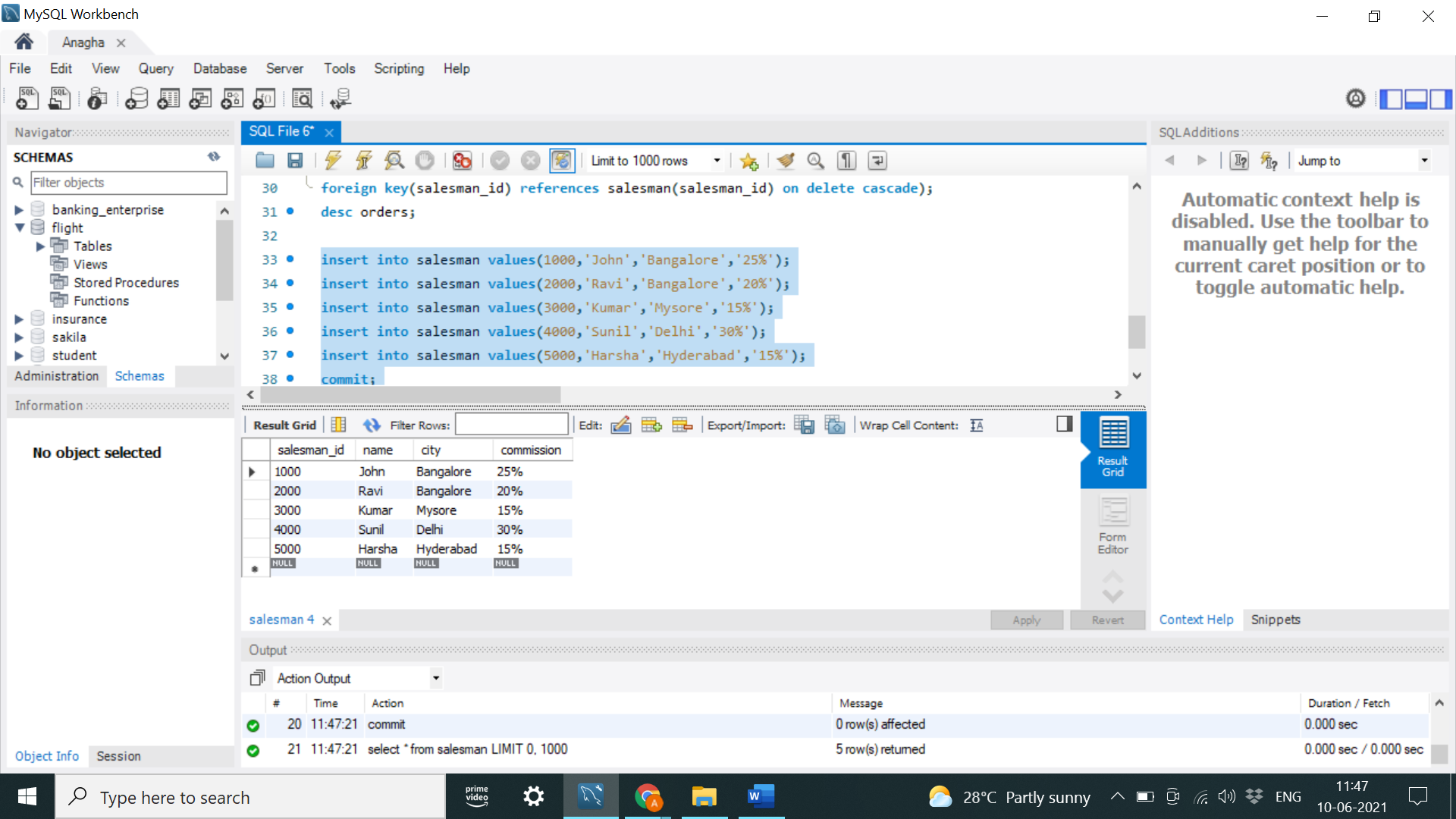
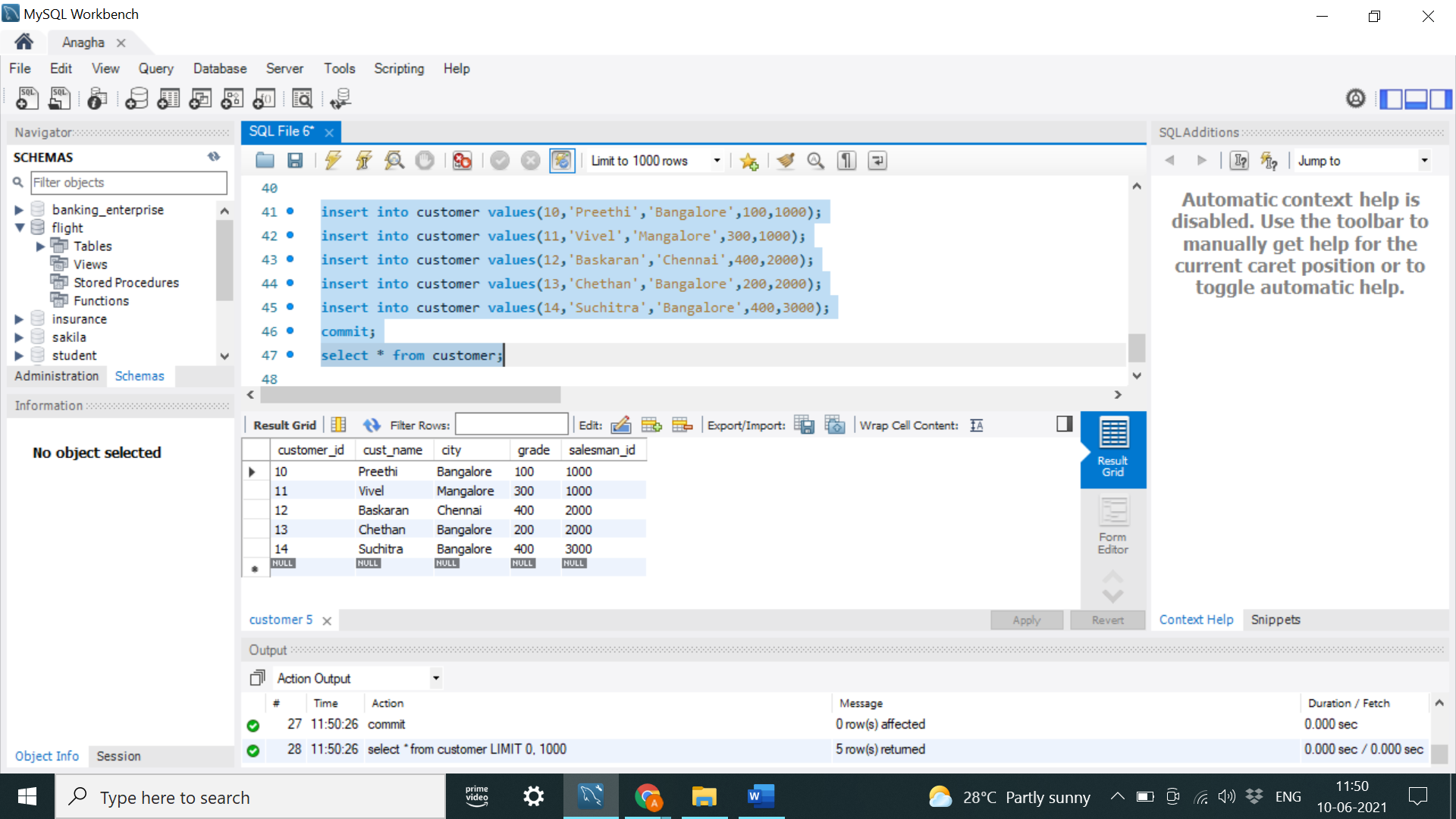
select \* from salesman;

select \* from customer;

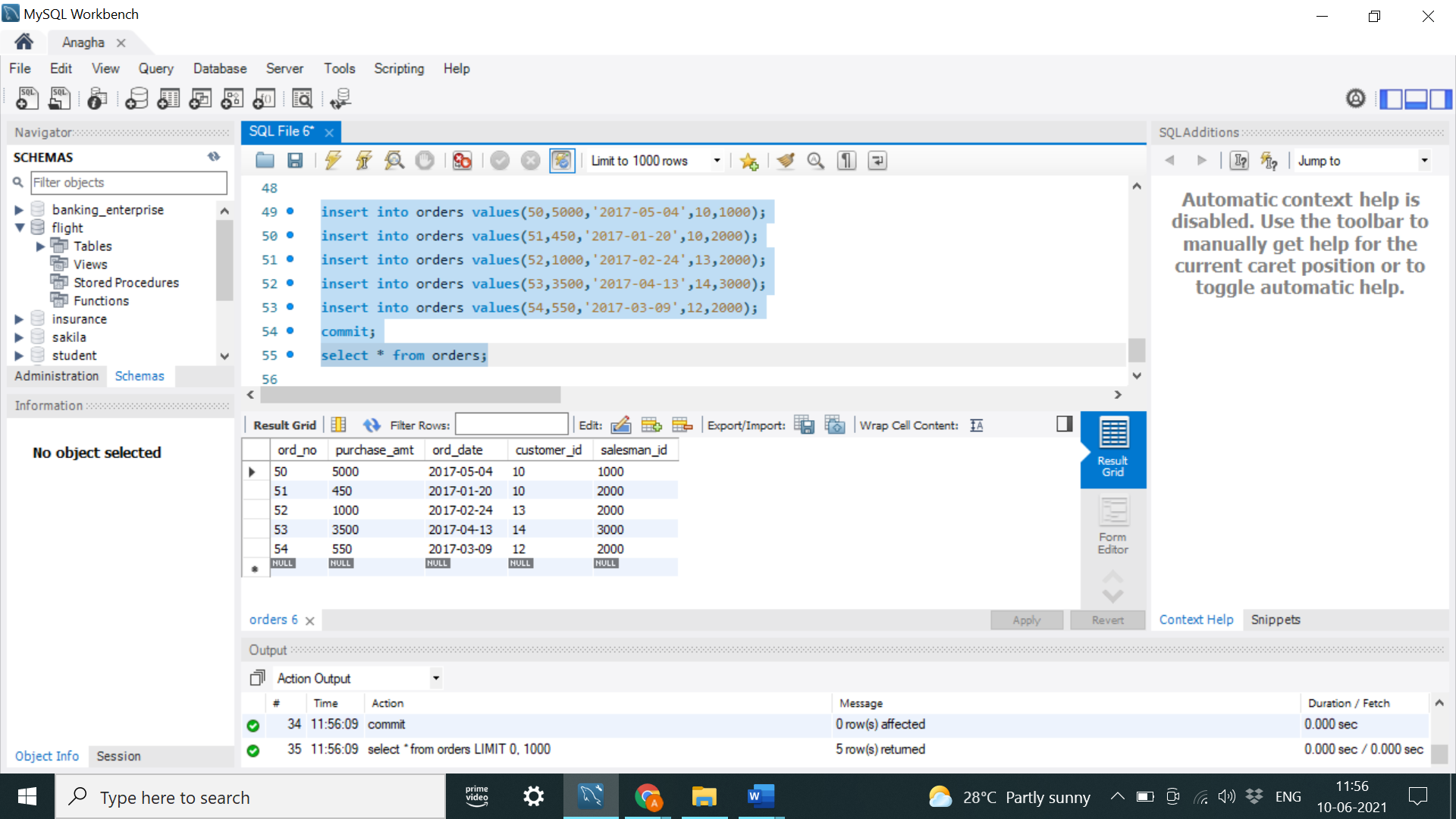
select \* from orders;

OUTPUT:

SALESMAN TABLE CUSTOMER TABLE

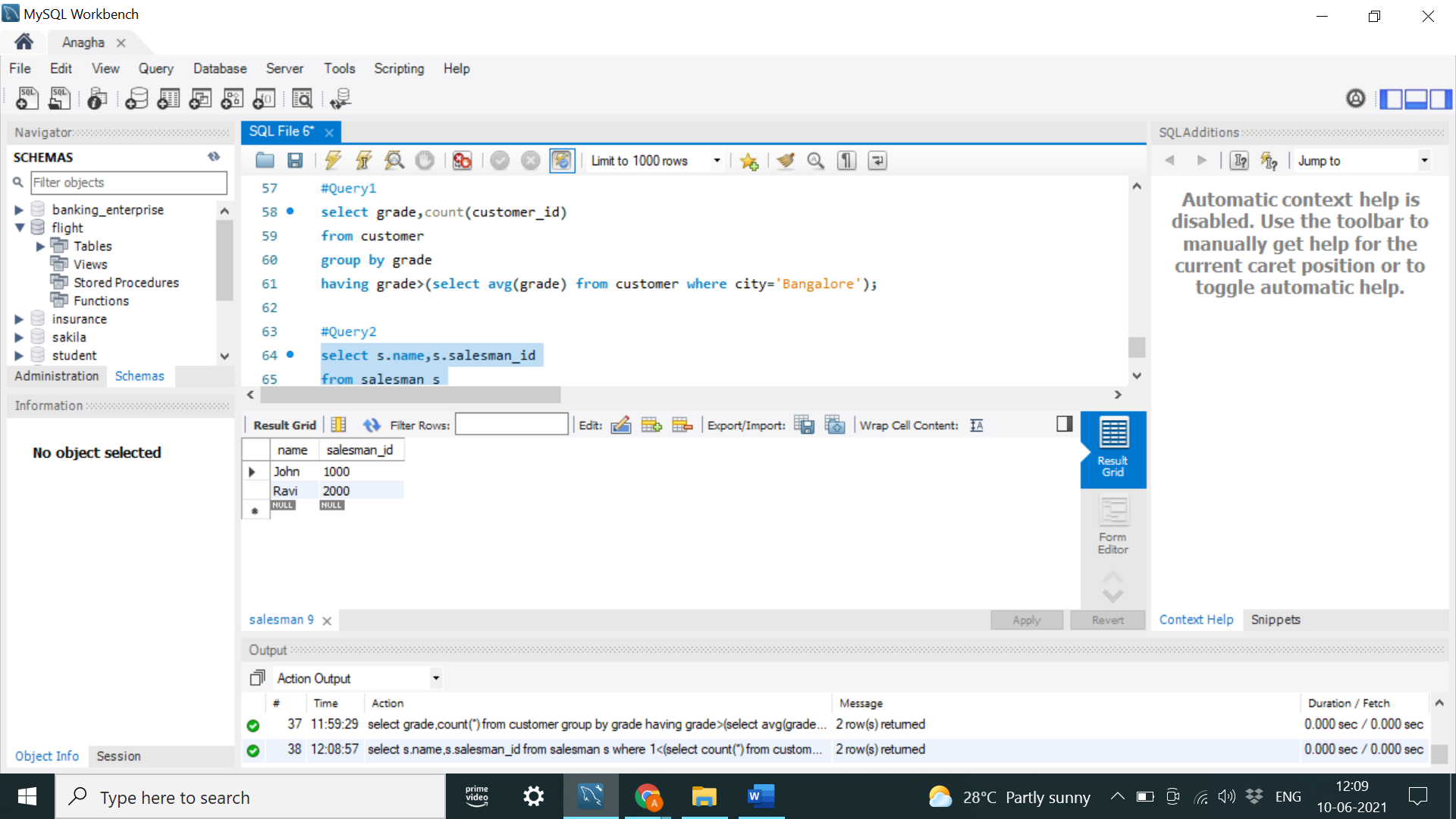
ORDERS TABLE



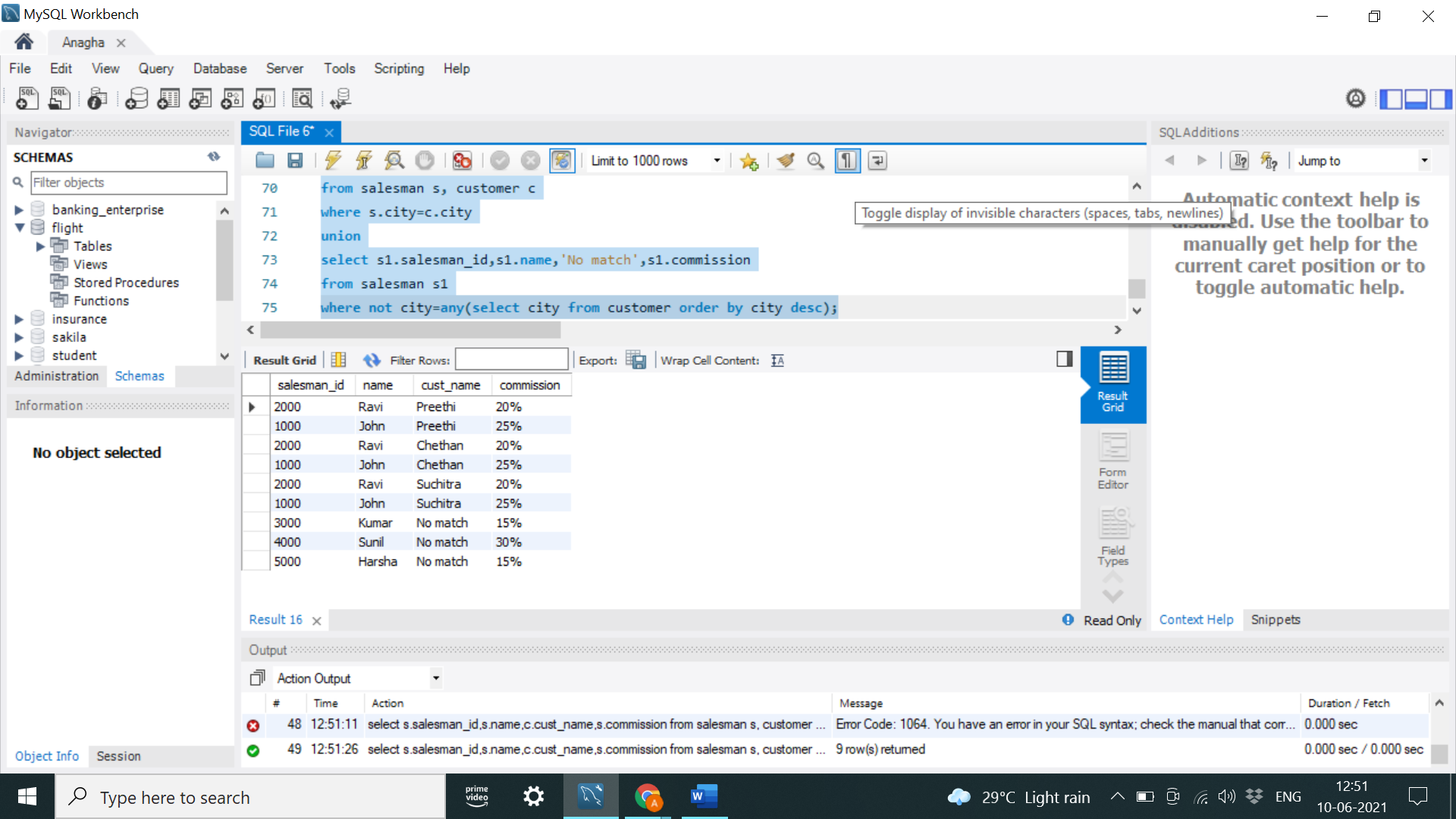
Query 1



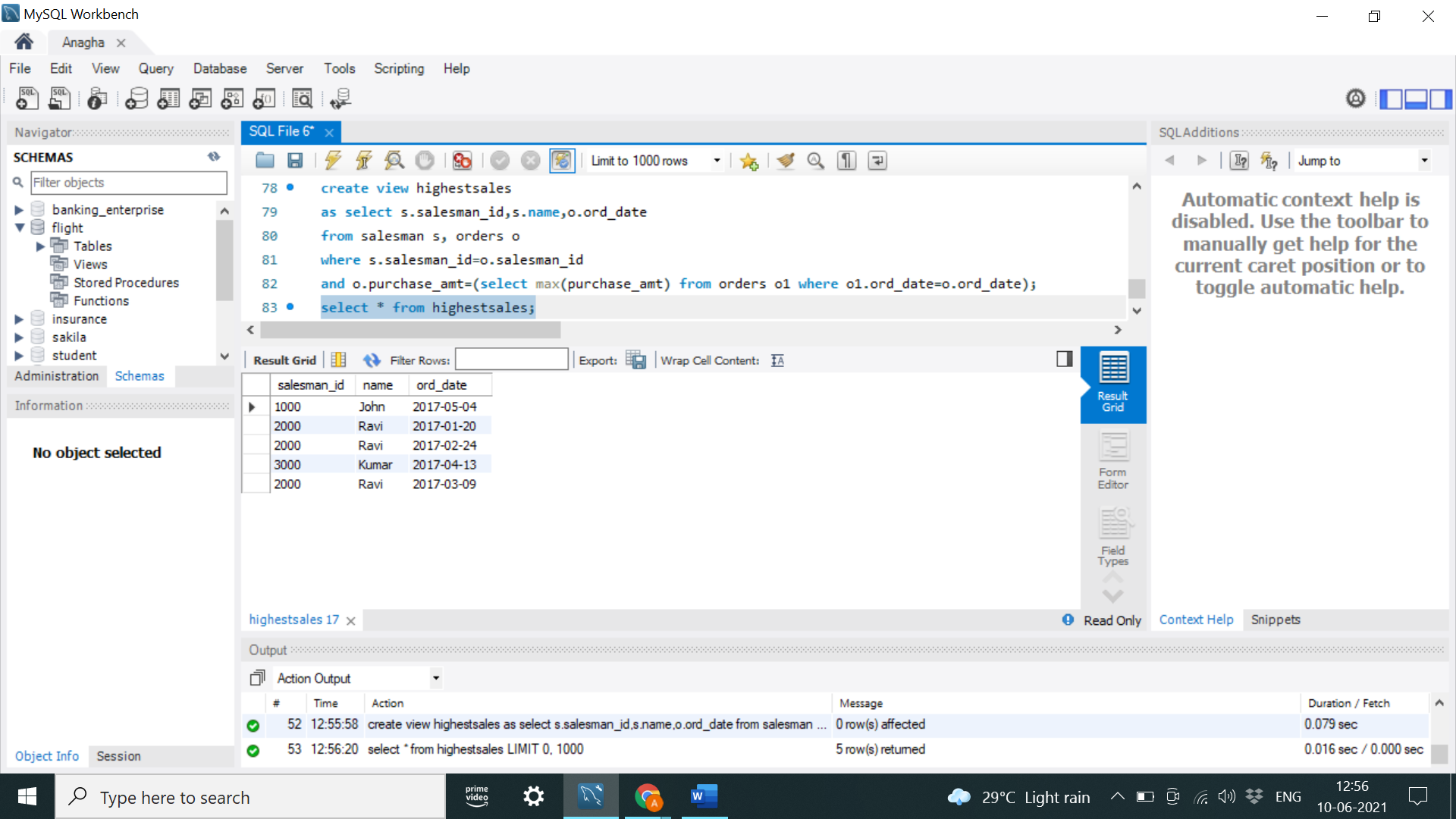
Query2



Query3

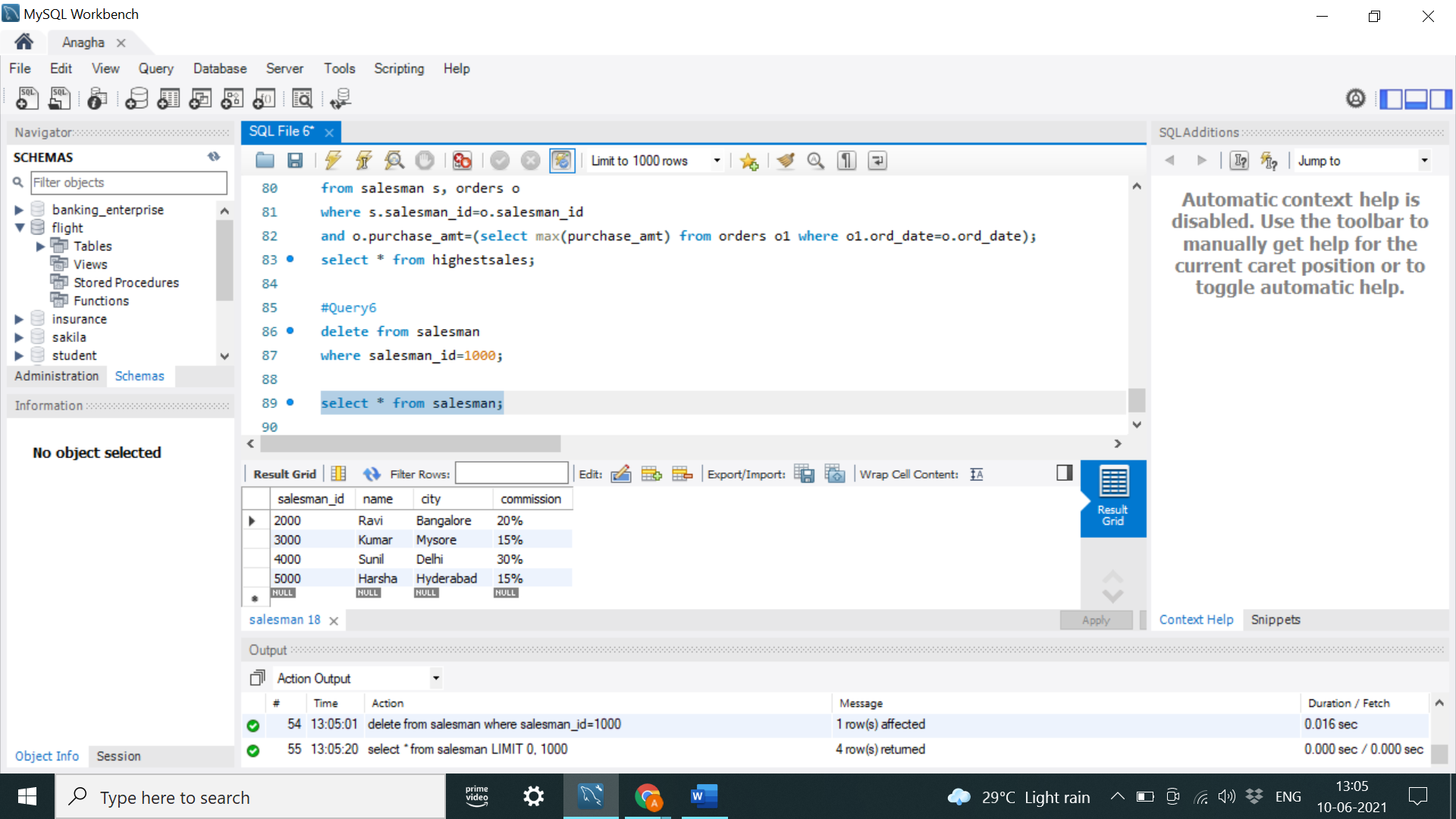
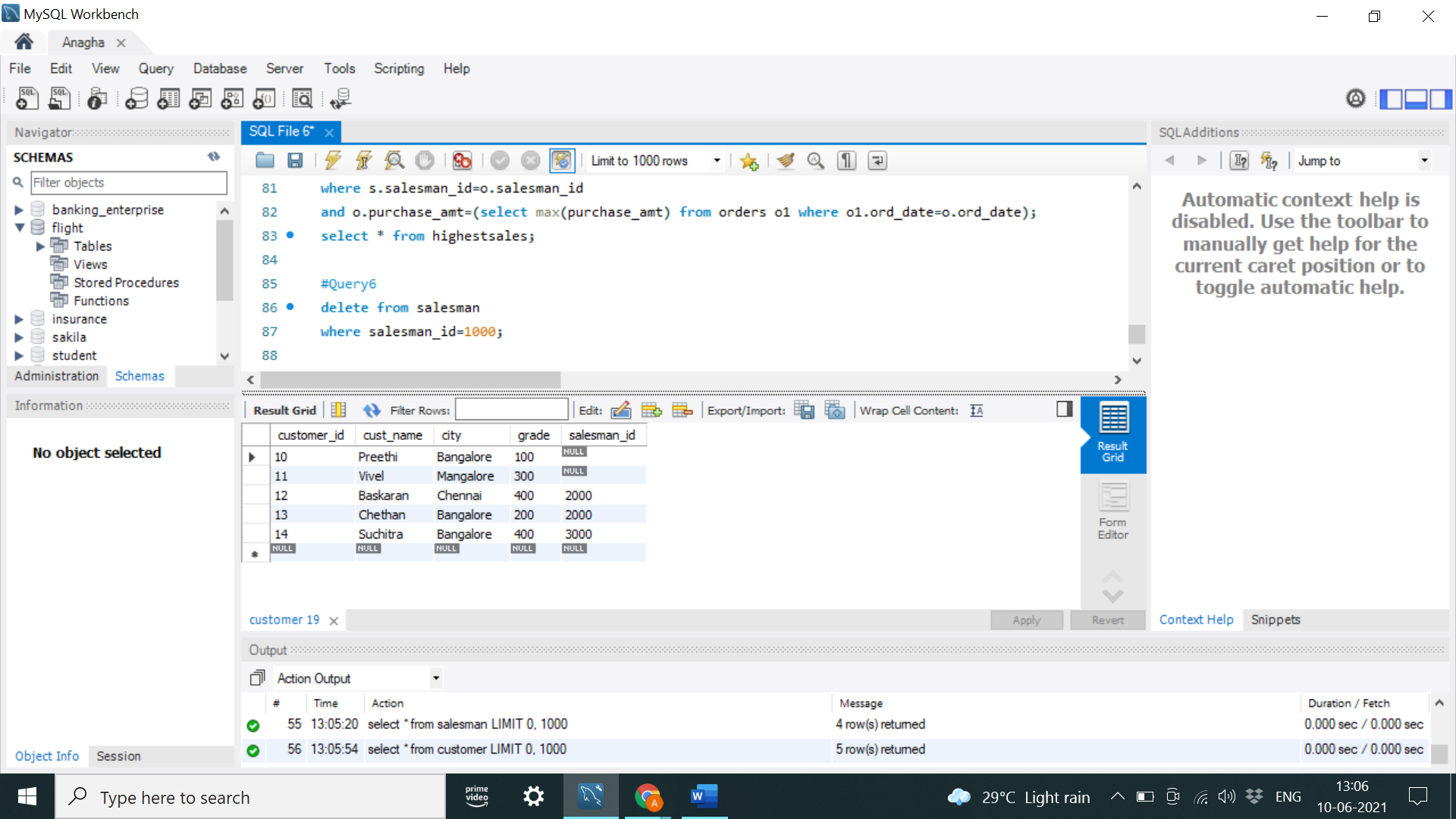


Query 4



Query 5

SALESMAN TABLE CUSTOMERS TABLE

ORDERS TABLE

