**SQL Assignment 4**

**Query 1 Create a stored procedure in the Northwind database that will calculate the average value of Freight for a specified customer.**

**Then, a business rule will be added that will be triggered before every Update and Insert command in the Orders controller,and will use the stored procedure to verify that the Freight does not exceed the average freight. If it does, a message will be displayed and the**

**command will be cancelled.**

**Stored Procedure for finding average freight for specified customers.**

delimiter &&

create procedure avg\_freight(IN customer\_id varchar(5),OUT avg decimal(10,4))

begin

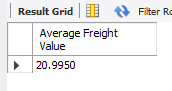
select avg(freight) into avg from orders where customerid = customer\_id;

end &&

delimiter ;

call avg\_freight("TOMSP",@avg\_freight);

select @avg\_freight as "Average Freight Value";



**Trigger of before import**

delimiter &&

create trigger verify\_freight

before insert on orders

for each row

begin

declare msg varchar(100);

set msg = " The command cancelled due to Freight value exceed the average freight.";

call avg\_freight(new.customerid,@avg\_freight);

if @avg\_freight < new.freight

then

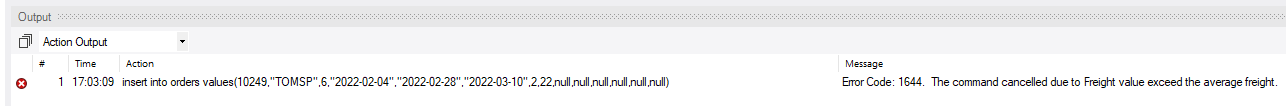
signal sqlstate '45000' set message\_text = msg;

end if;

end &&

delimiter ;

insert into orders values(10249,"TOMSP",6,"2022-02-04","2022-02-28","2022-03-10",2,22,null,null,null,null,null,null);



**Trigger of before update**

delimiter &&

create trigger verify\_freight\_update

before update on orders

for each row

begin

declare msg varchar(100);

set msg = " The command cancelled due to Freight value exceed the average freight.";

call avg\_freight(new.customerid,@avg\_freight);

if @avg\_freight < new.freight

then

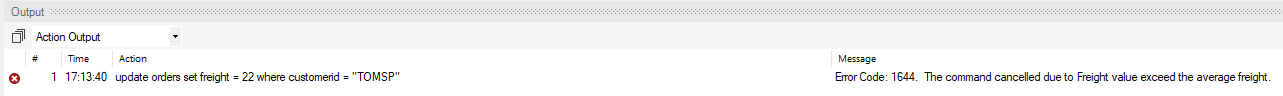
signal sqlstate '45000' set message\_text = msg;

end if;

end &&

delimiter ;

update orders set freight = 22 where customerid = "TOMSP";

****

**Query 2 write a SQL query to Create Stored procedure in the Northwind database to retrieve Employee Sales by Country.**

delimiter &&

create procedure employee\_sales\_by\_country(IN country varchar(15))

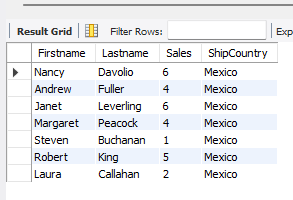
begin

select employees.Firstname,employees.Lastname,count(orderid) as "Sales",ShipCountry from employees left join orders on employees.employeeid = orders.employeeid where shipcountry = country group by shipcountry,firstname,lastname;

end &&

delimiter ;

call employee\_sales\_by\_country("Mexico");



**Query 3 write a SQL query to Create Stored procedure in the Northwind database to retrieve Sales by Year.**

delimiter &&

create procedure sales\_by\_year(IN starting\_date varchar(20),IN ending\_date varchar(20))

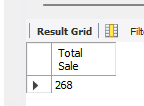
begin

select count(orderid) as "Total Sale" from orders where shippeddate between starting\_date and ending\_date;

end &&

delimiter ;

call sales\_by\_year("1998-01-01","1998-12-31");

****

**Query 4 write a SQL query to Create Stored procedure in the Northwind database to retrieve Sales By Category.**

delimiter &&

create procedure sales\_by\_category(IN category\_name varchar(40))

begin

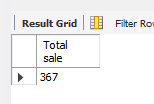
select count(orderid) as "Total sale" from `order details` left join products on products.productid = `order details`.productid

left join categories on products.categoryid = categories.categoryid where categoryname = category\_name;

end &&

delimiter ;

call sales\_by\_category("Dairy Products");



**Query 5 write a SQL query to Create Stored procedure in the Northwind database to retrieve Ten Most Expensive Products.**

delimiter &&

create procedure print\_top\_ten()

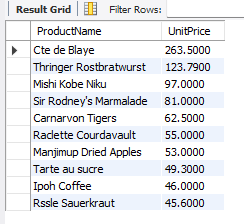
begin

select ProductName,UnitPrice from Products order by UnitPrice desc limit 10;

end &&

delimiter ;

call print\_top\_ten();



**Query 6 write a SQL query to Create Stored procedure in the Northwind database to insert Customer Order Details.**

delimiter &&

create procedure insert\_order\_detail(IN order\_id int,IN product\_id int,IN price decimal(10,4),IN quantities smallint,IN discounts double(8,0))

begin

insert into `order details` values (order\_id,product\_id,price,quantities,discounts);

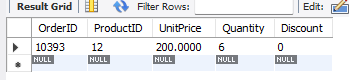
end &&

delimiter ;

call insert\_order\_detail(10393,12,200.00,6,0);



select \* from `order details` where orderid = 10393 and productid = 12;



**Query 7 write a SQL query to Create Stored procedure in the Northwind database to update Customer Order Details.**

delimiter &&

create procedure update\_order\_detail(IN order\_id int,IN product\_id int,IN price decimal(10,4),IN quantities smallint,IN discounts double(8,0))

begin

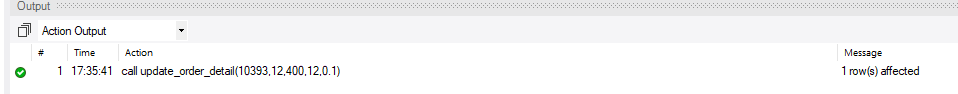
update `order details` set unitprice = price,quantity = quantities,discount = discounts where

orderid = order\_id and productid = product\_id;

end &&

delimiter ;

call update\_order\_detail(10393,12,400,12,0.1);



select \* from `order details` where orderid = 10393 and productid = 12;

