DBMS LAB 5

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Q1

use mysampldb;

DROP TABLE ORDERR;

DROP TABLE CUSTOMER;

CREATE TABLE ORDERR

(

OrderId INT PRIMARY KEY,

CustomerID INT,

OrderDate DATE

);

CREATE TABLE CUSTOMER

(

CustomerId INT PRIMARY KEY,

CustomerName VARCHAR(100),

ContactName VARCHAR(100),

Country VARCHAR(100)

);

-- 1)

INSERT INTO ORDERR

VALUES

(10308, 2, '1996-09-18'),

(10309, 37, '1996-09-19'),

(10310, 77, '1996-09-20'),

(10311, 4, '2019-02-20'),

(10312, 42, '2018-11-28'),

(10313, 3, '2012-03-12'),

(10314, 42, '2003-12-31'),

(10315, 6, '1998-05-14');

INSERT INTO CUSTOMER

VALUES

(1, 'Alfreds Futterkiste', 'Maria Anders', 'Germany'),

(2, 'Ana Trujillo Emparedados y helados', 'Ana Trujillo', 'Mexico'),

(3, 'Antonio Moreno Taqueira', 'Antonio Moreno', 'Mexico'),

(4, 'Balakumar Nair', 'Ranga Nair', 'India'),

(5, 'Akash Sharma', 'Anita Sharma', 'India'),

(6, 'Shreya Patel', 'Harsh Patel ', 'India'),

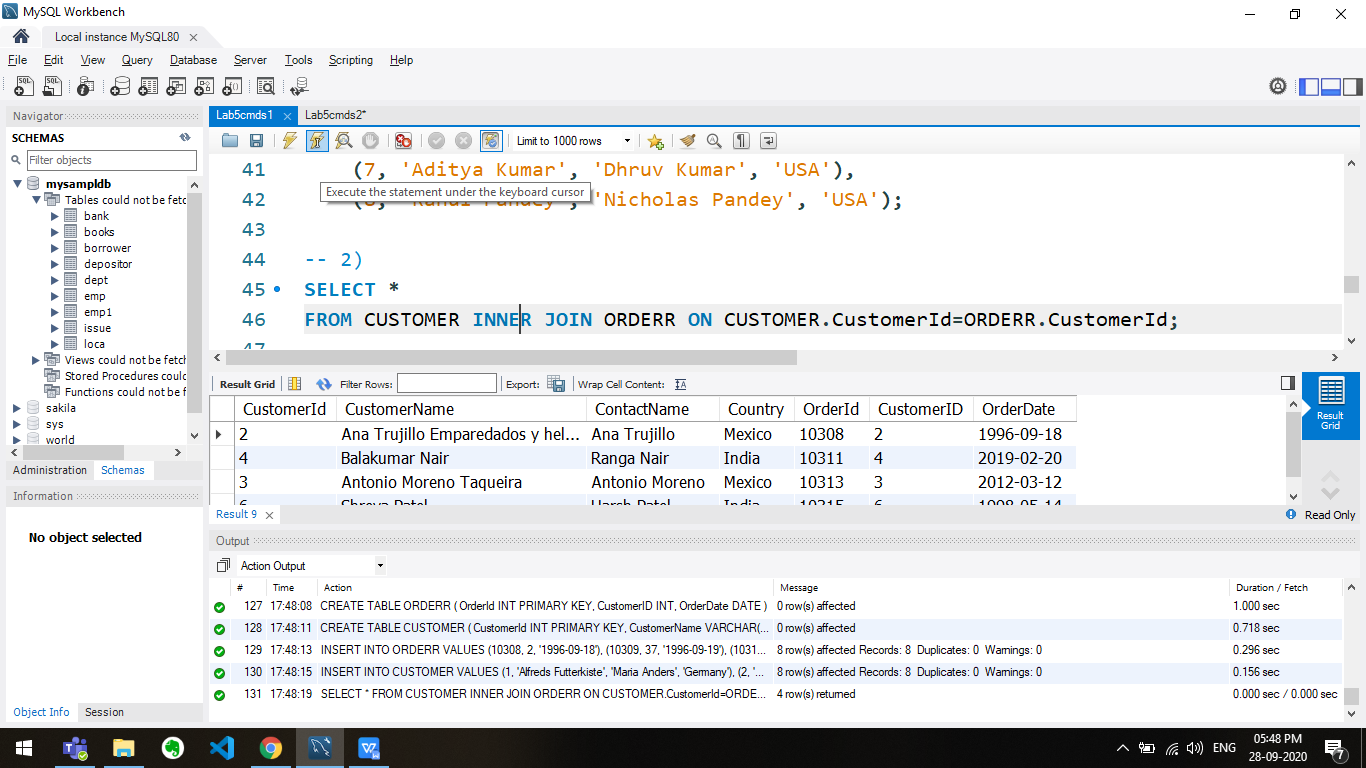
(7, 'Aditya Kumar', 'Dhruv Kumar', 'USA'),

(8, 'Rahul Pandey', 'Nicholas Pandey', 'USA');

-- 2)

SELECT \*

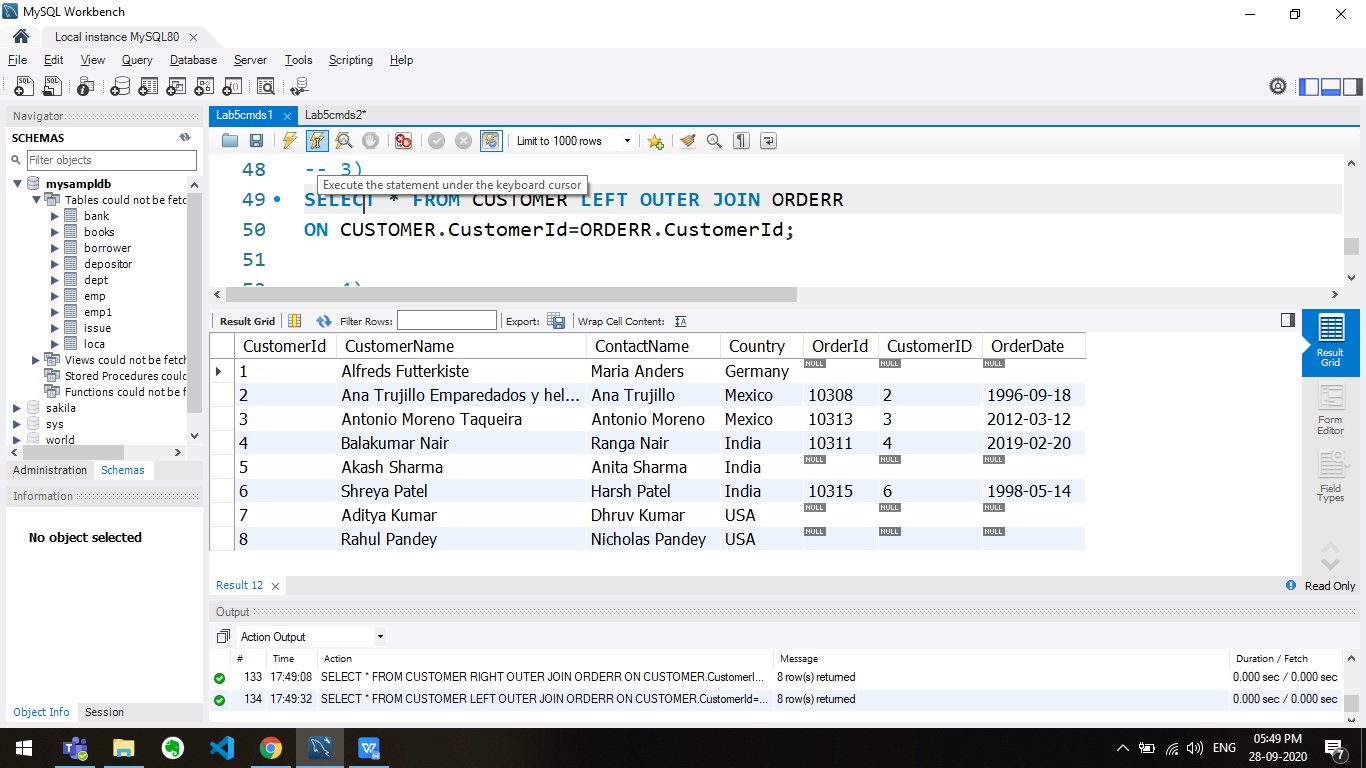
FROM CUSTOMER INNER JOIN ORDERR ON CUSTOMER.CustomerId=ORDERR.CustomerId;



-- 3)

SELECT \* FROM CUSTOMER LEFT OUTER JOIN ORDERR

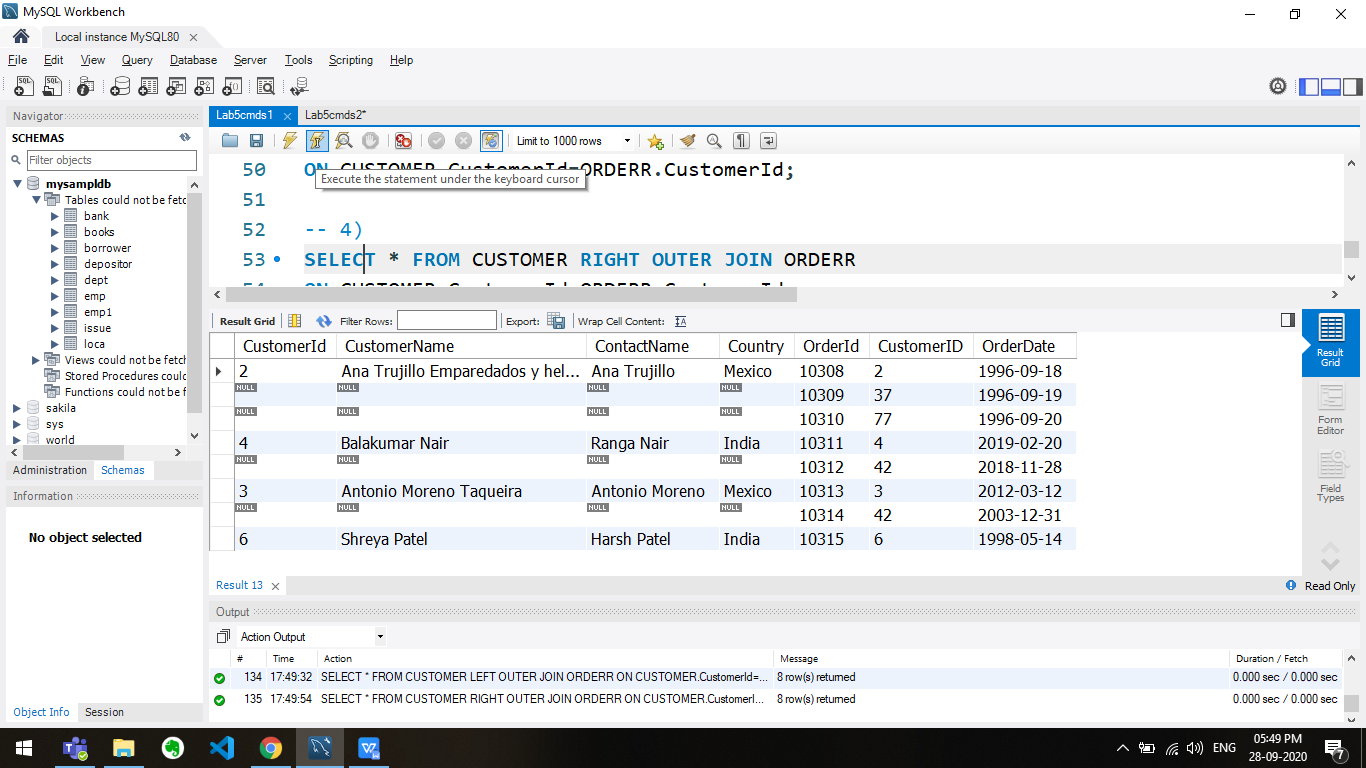
ON CUSTOMER.CustomerId=ORDERR.CustomerId;



-- 4)

SELECT \* FROM CUSTOMER RIGHT OUTER JOIN ORDERR

ON CUSTOMER.CustomerId=ORDERR.CustomerId;



-- 5)

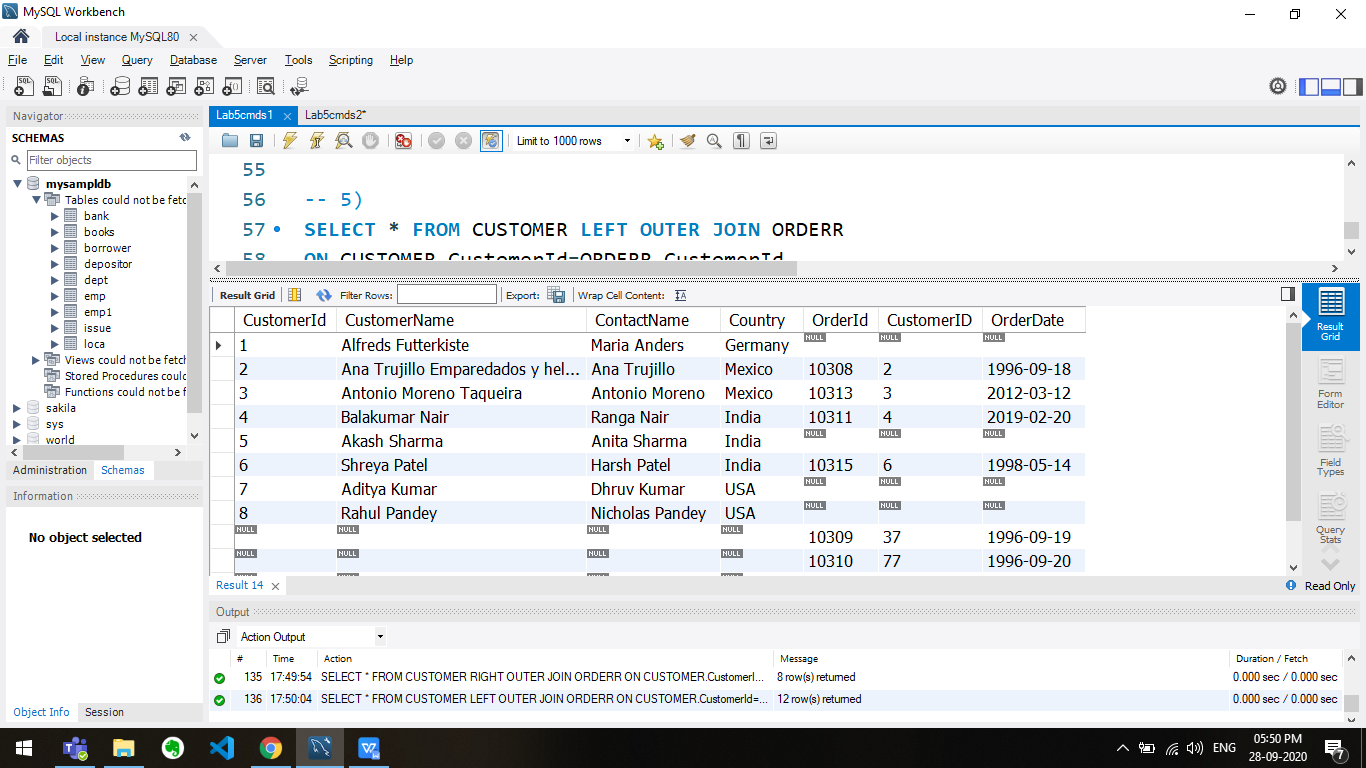
SELECT \* FROM CUSTOMER LEFT OUTER JOIN ORDERR

ON CUSTOMER.CustomerId=ORDERR.CustomerId

UNION

SELECT \* FROM CUSTOMER RIGHT OUTER JOIN ORDERR

ON CUSTOMER.CustomerId=ORDERR.CustomerId;



Q2

use mysampldb;

DROP TABLE Customer;

DROP TABLE Item;

DROP TABLE Sale;

CREATE TABLE Customer

(

Cust\_id INT PRIMARY KEY,

cust\_name VARCHAR(50)

);

CREATE TABLE Item

(

item\_id INT,

item\_name VARCHAR(50),

price INT

);

CREATE TABLE Sale

(

bill\_no INT PRIMARY KEY,

bill\_date DATE,

cust\_id INT,

item\_id INT,

qty\_sold INT DEFAULT 0

);

INSERT INTO CUSTOMER VALUES

(101,'Ahmed'),

(102,'Bala'),

(103, 'Chan'),

(104, 'Dhruv'),

(105, 'Easwar'),

(106, 'Freddy'),

(107, 'Gayatri'),

(108, 'Harsh'),

(109,'Rahul'),

(110, 'Sam');

INSERT INTO Item VALUES

(1, 'T-Shirt', 999),

(2, 'Smartphone', 30000),

(3, 'Watch', 5000),

(4, 'Cap', 300),

(5, 'Trimmer', 3000),

(6, 'Comb', 100),

(7, 'Laptop', 60000),

(8, 'Gaming System', 200000),

(9, 'Headphones', 7000),

(10, 'Shoes', 2000);

INSERT INTO Sale VALUES

(8001, '2018-12-27',103, 4, 5),

(8002, '2019-01-15', 103, 2, 10),

(8003, '2019-02-07', 101, 3, 2),

(8004, '2019-04-13', 110, 5, 1),

(8005, '2019-06-27', 109, 7, 2),

(8006, '2019-08-07', 109, 7, 3),

(8007, '2019-10-17', 102, 6, 100),

(8008, '2019-12-07', 105, 8, 1),

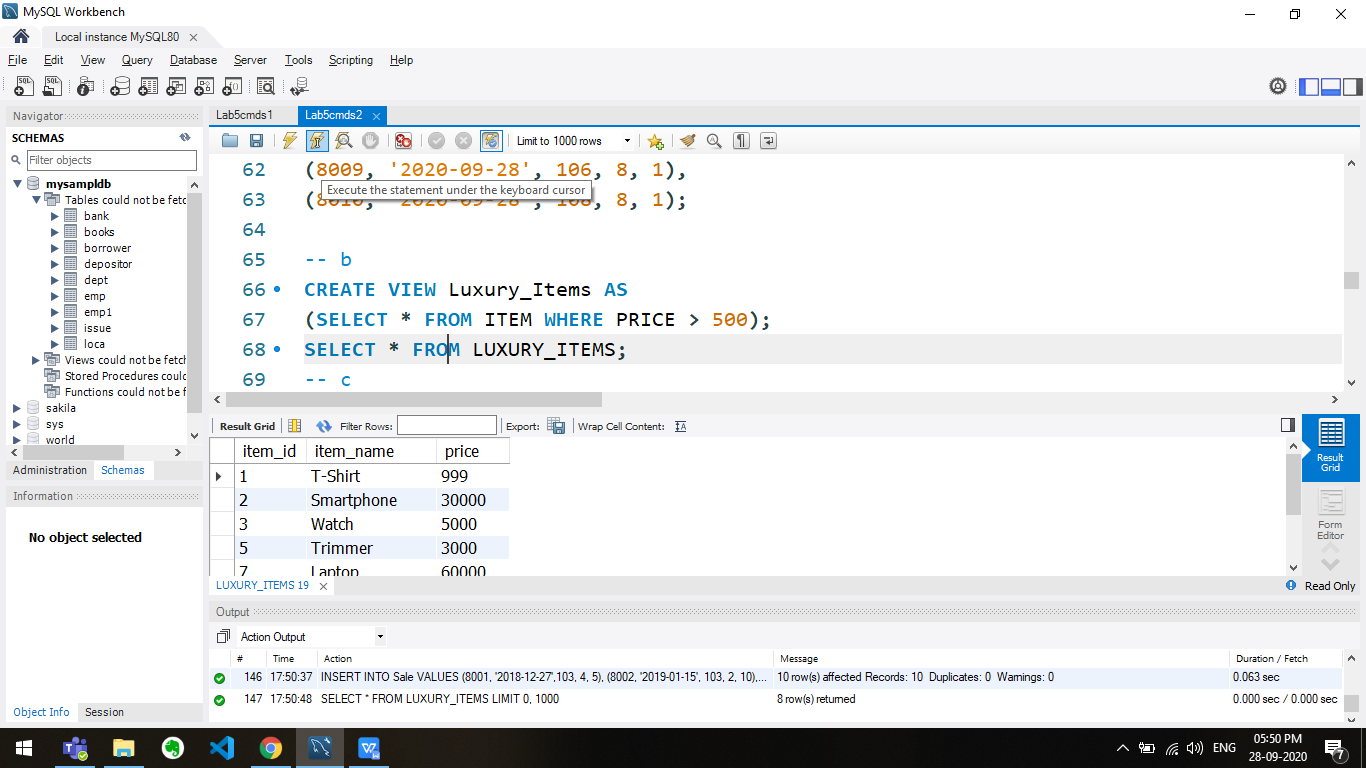
(8009, '2020-09-28', 106, 8, 1),

(8010, '2020-09-28', 108, 8, 1);

-- b

CREATE VIEW Luxury\_Items AS

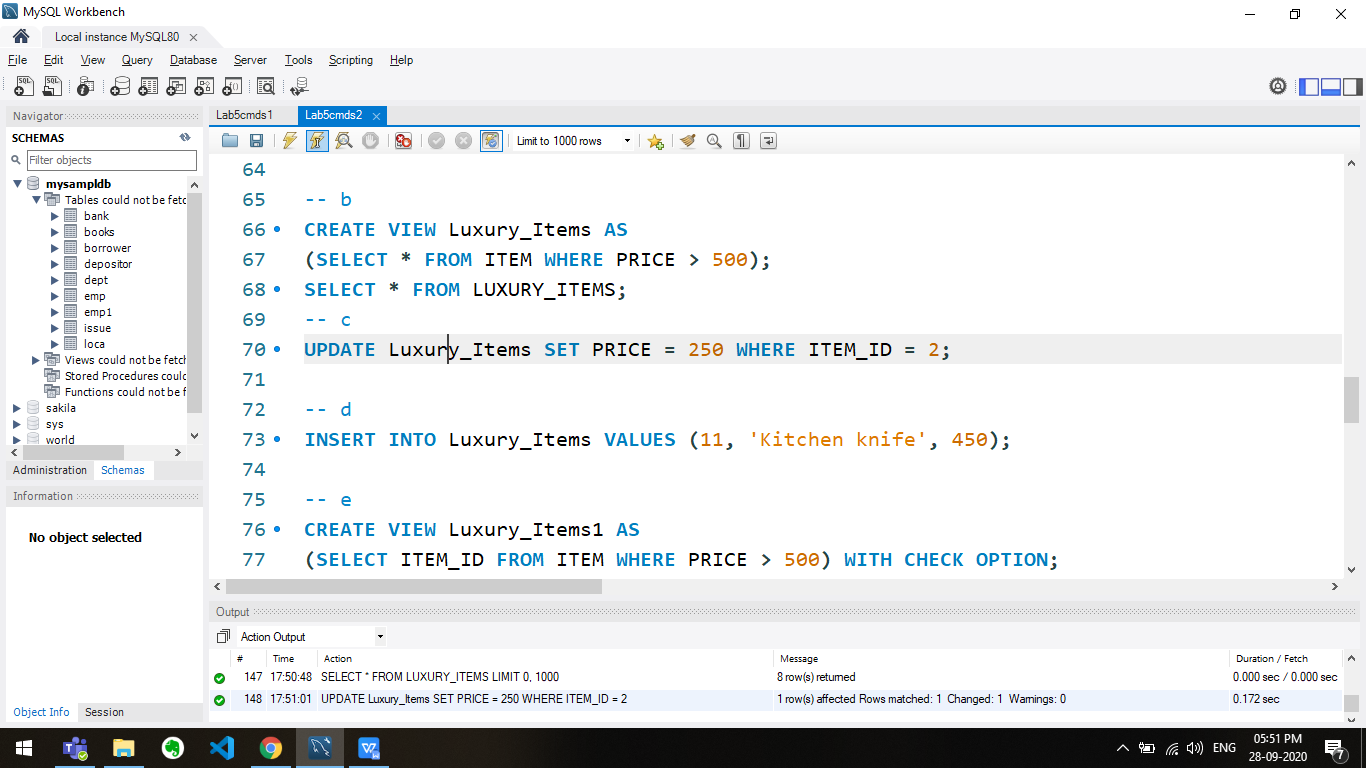
(SELECT \* FROM ITEM WHERE PRICE > 500);



SELECT \* FROM LUXURY\_ITEMS;

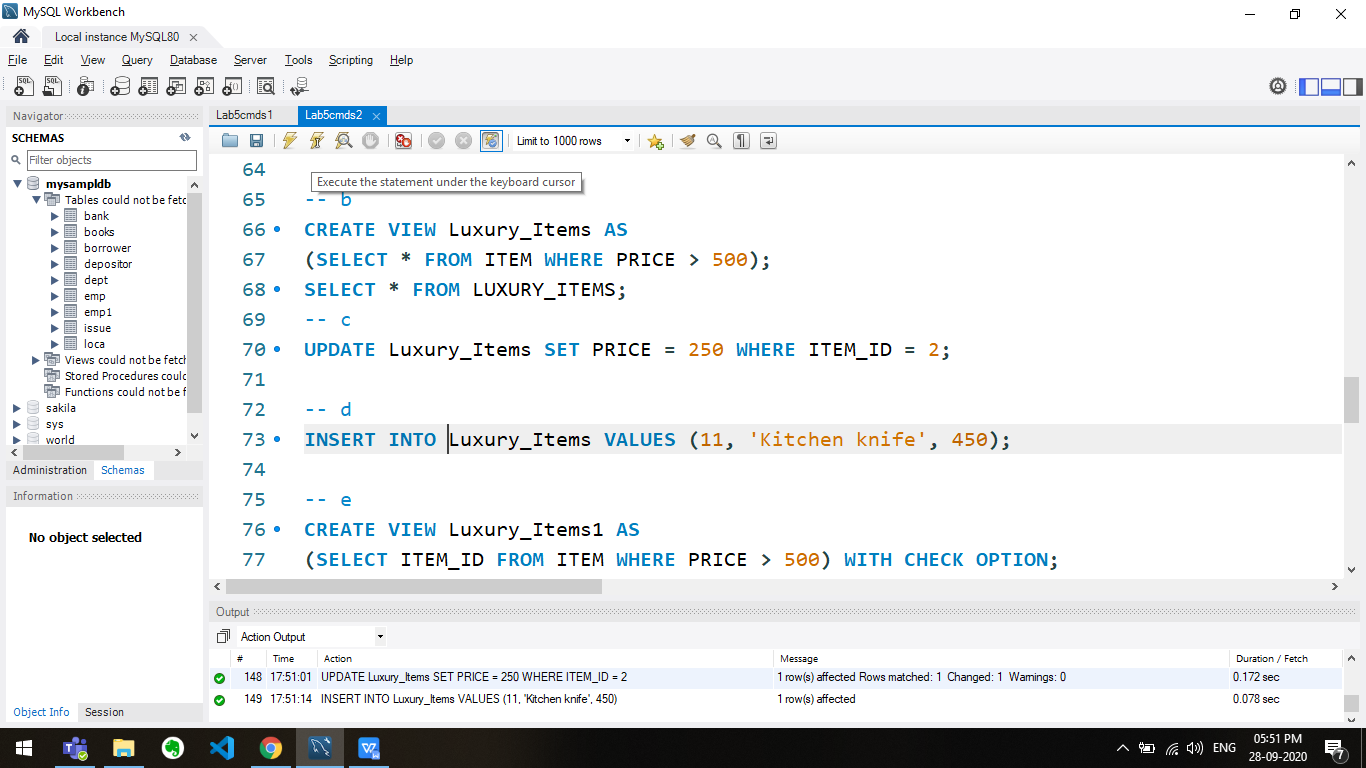
-- c

UPDATE Luxury\_Items SET PRICE = 250 WHERE ITEM\_ID = 2;



-- d

INSERT INTO Luxury\_Items VALUES (11, 'Kitchen knife', 450);

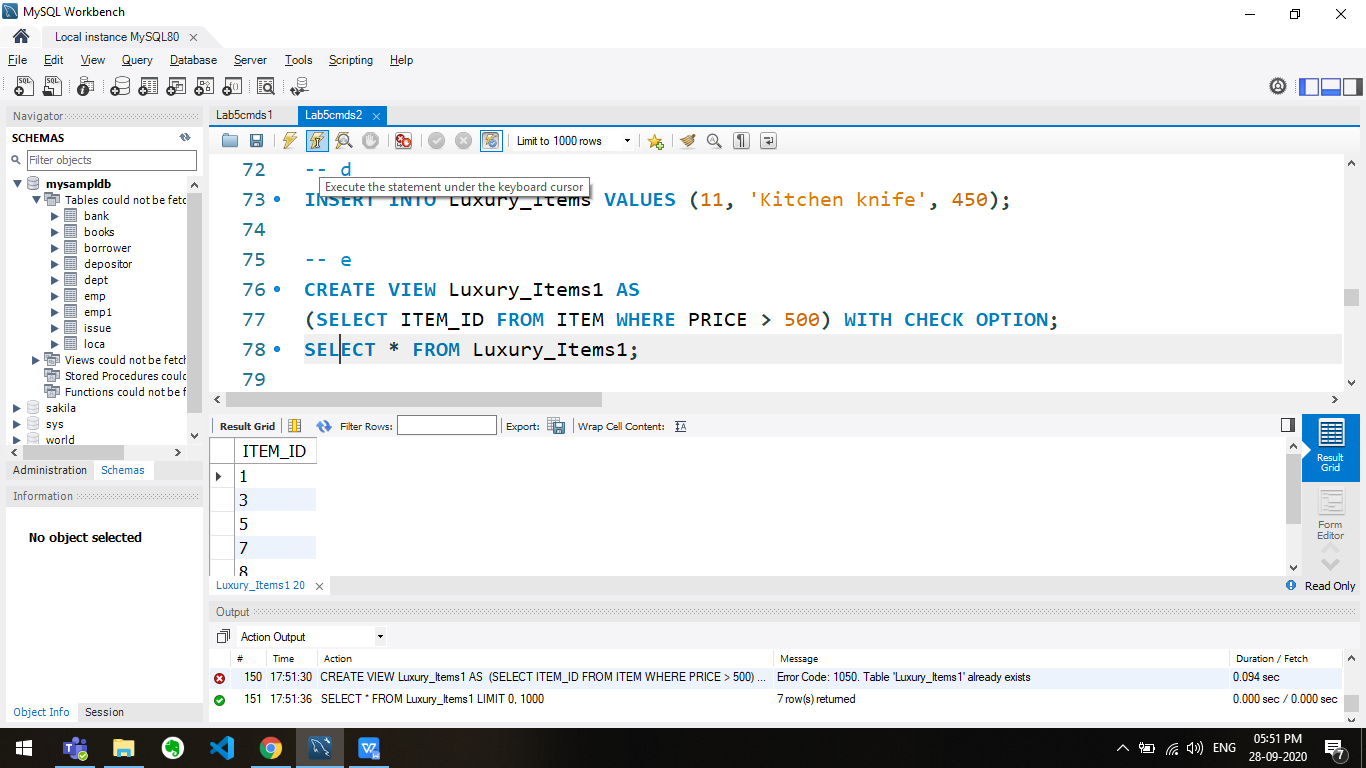


-- e

CREATE VIEW Luxury\_Items1 AS

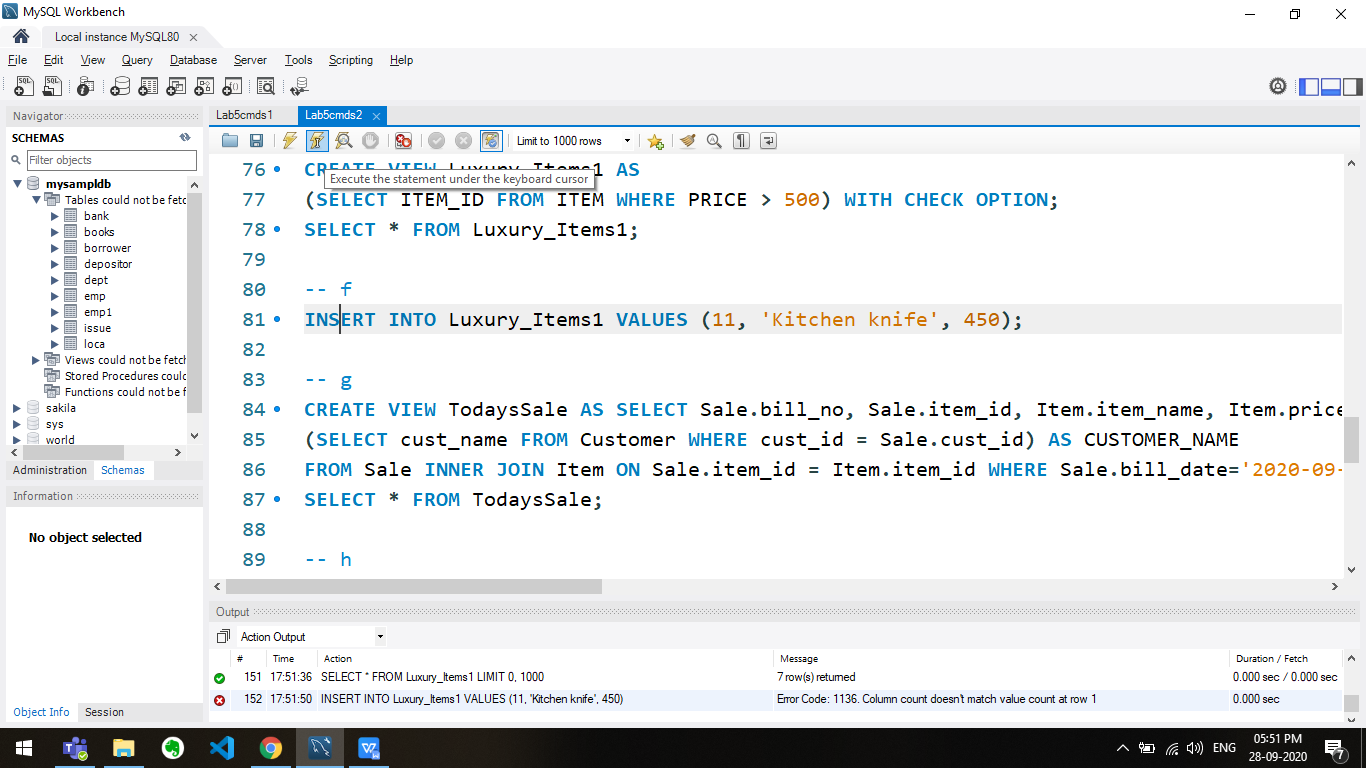
(SELECT ITEM\_ID FROM ITEM WHERE PRICE > 500) WITH CHECK OPTION;

SELECT \* FROM Luxury\_Items1;



-- f

INSERT INTO Luxury\_Items1 VALUES (11, 'Kitchen knife', 450);



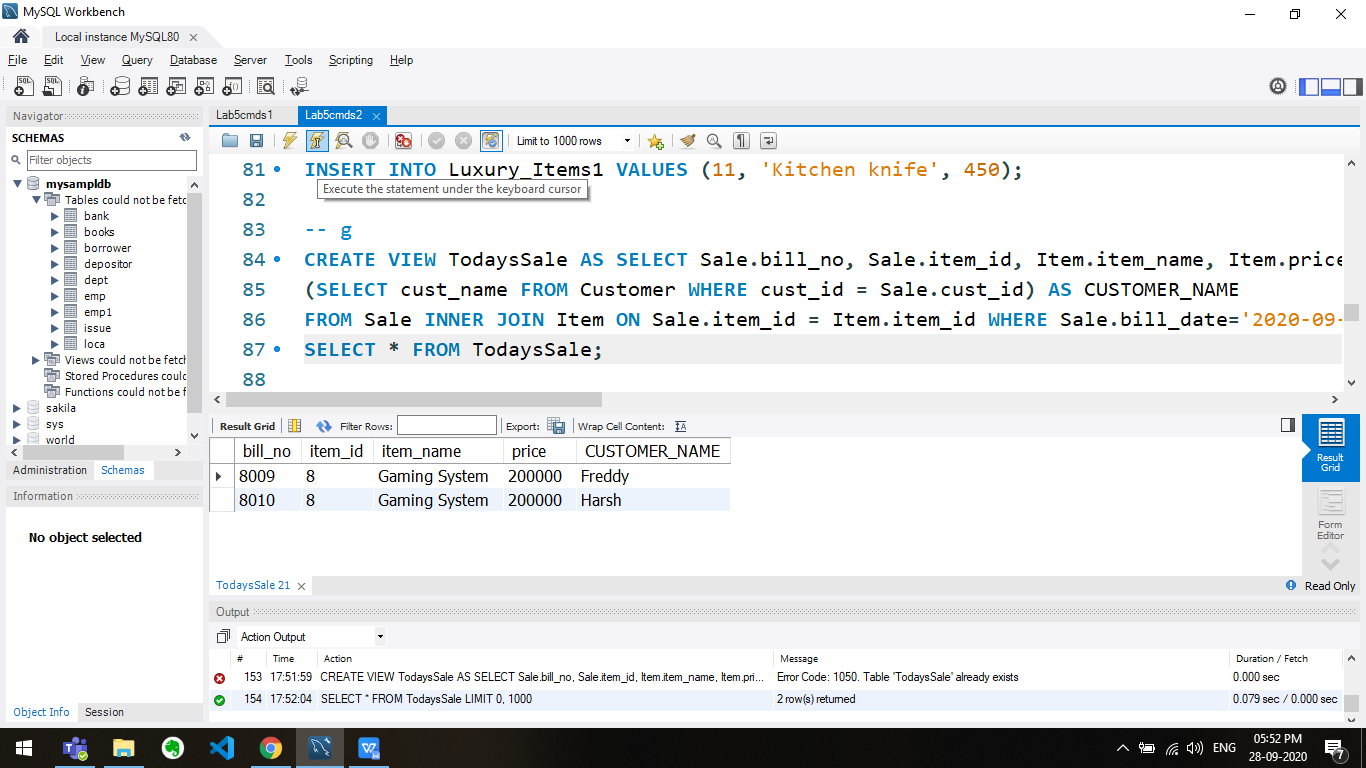
-- g

CREATE VIEW TodaysSale AS SELECT Sale.bill\_no, Sale.item\_id, Item.item\_name, Item.price,

(SELECT cust\_name FROM Customer WHERE cust\_id = Sale.cust\_id) AS CUSTOMER\_NAME

FROM Sale INNER JOIN Item ON Sale.item\_id = Item.item\_id WHERE Sale.bill\_date='2020-09-28';

SELECT \* FROM TodaysSale;



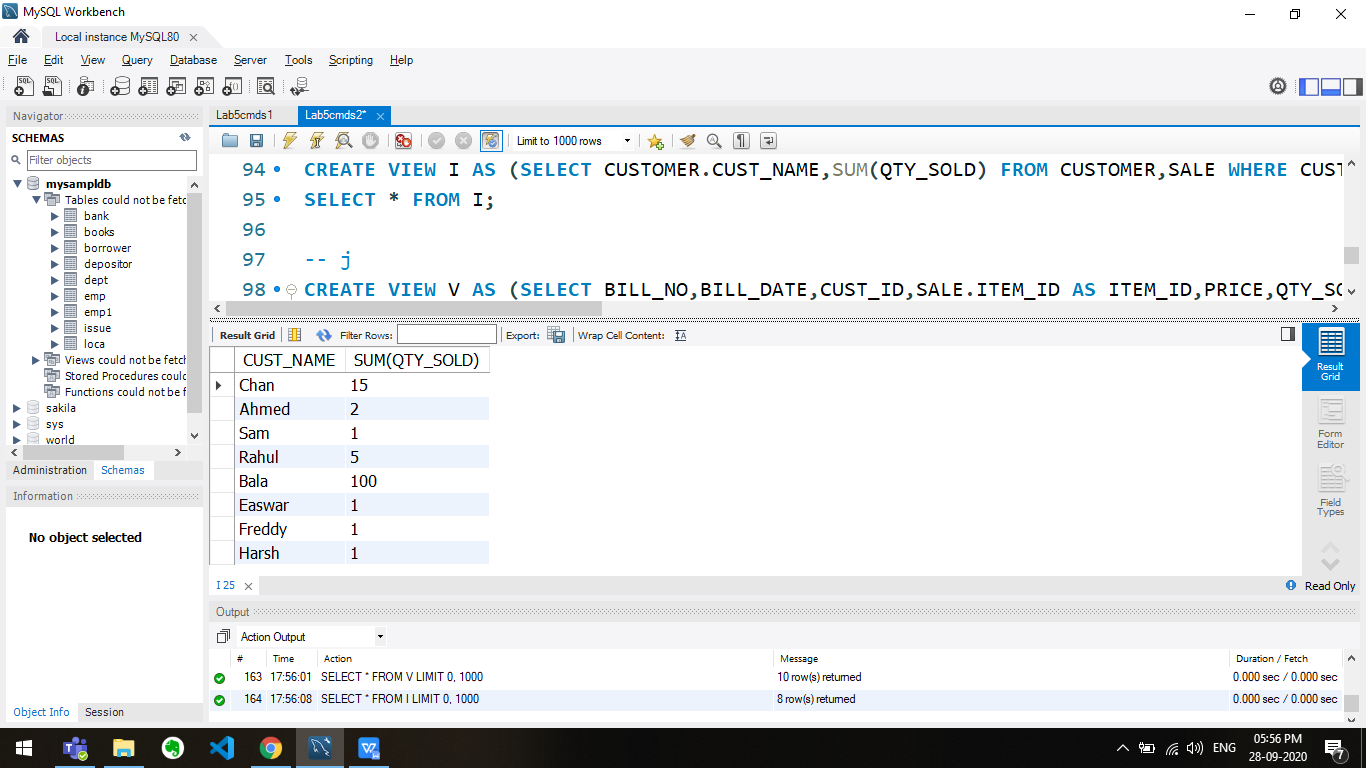
-- h

UPDATE TodaysSale SET PRICE = 900 WHERE item\_id = 2;

-- i

CREATE VIEW I AS (SELECT CUSTOMER.CUST\_NAME,SUM(QTY\_SOLD) FROM CUSTOMER,SALE WHERE CUSTOMER.CUST\_ID=SALE.CUST\_ID GROUP BY SALE.CUST\_ID);

SELECT \* FROM I;

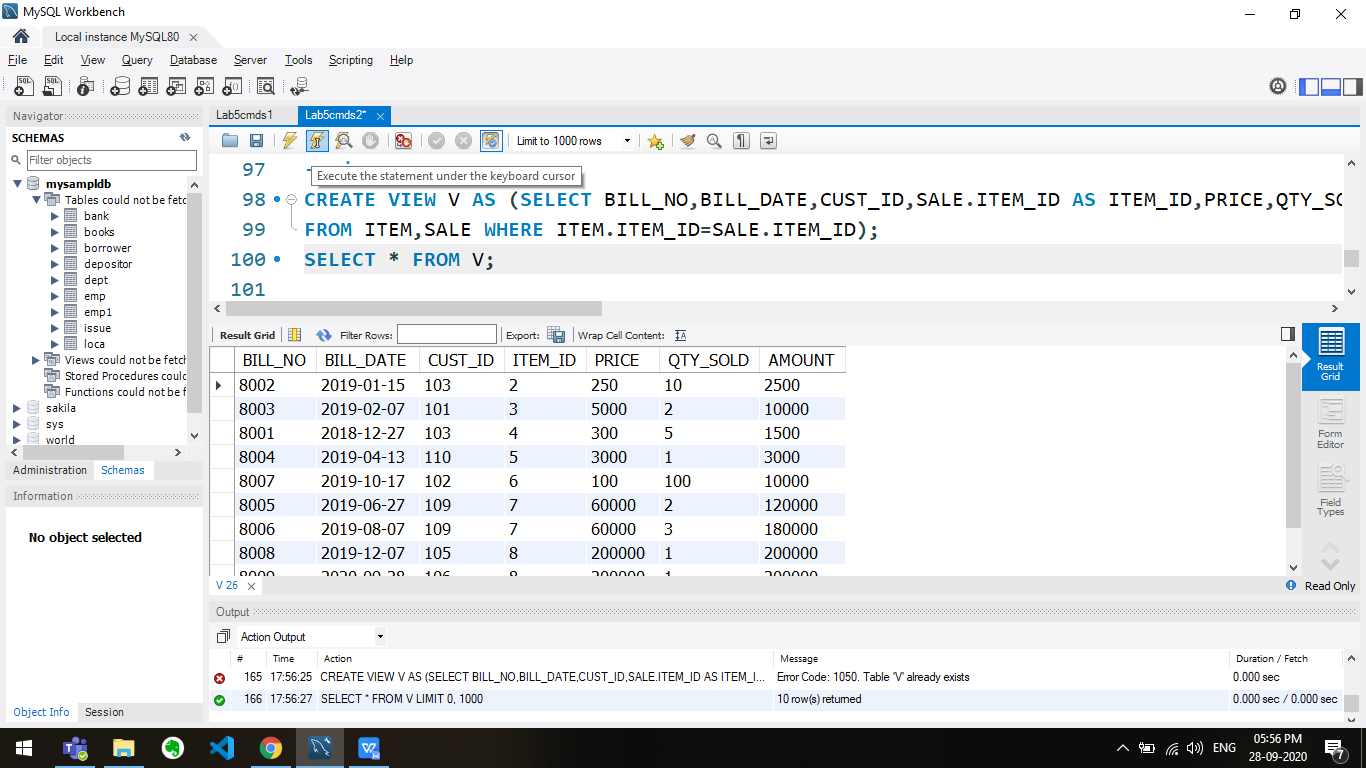


-- j

CREATE VIEW V AS (SELECT BILL\_NO,BILL\_DATE,CUST\_ID,SALE.ITEM\_ID AS ITEM\_ID,PRICE,QTY\_SOLD,(PRICE\*QTY\_SOLD) AS AMOUNT

FROM ITEM,SALE WHERE ITEM.ITEM\_ID=SALE.ITEM\_ID);

SELECT \* FROM V;

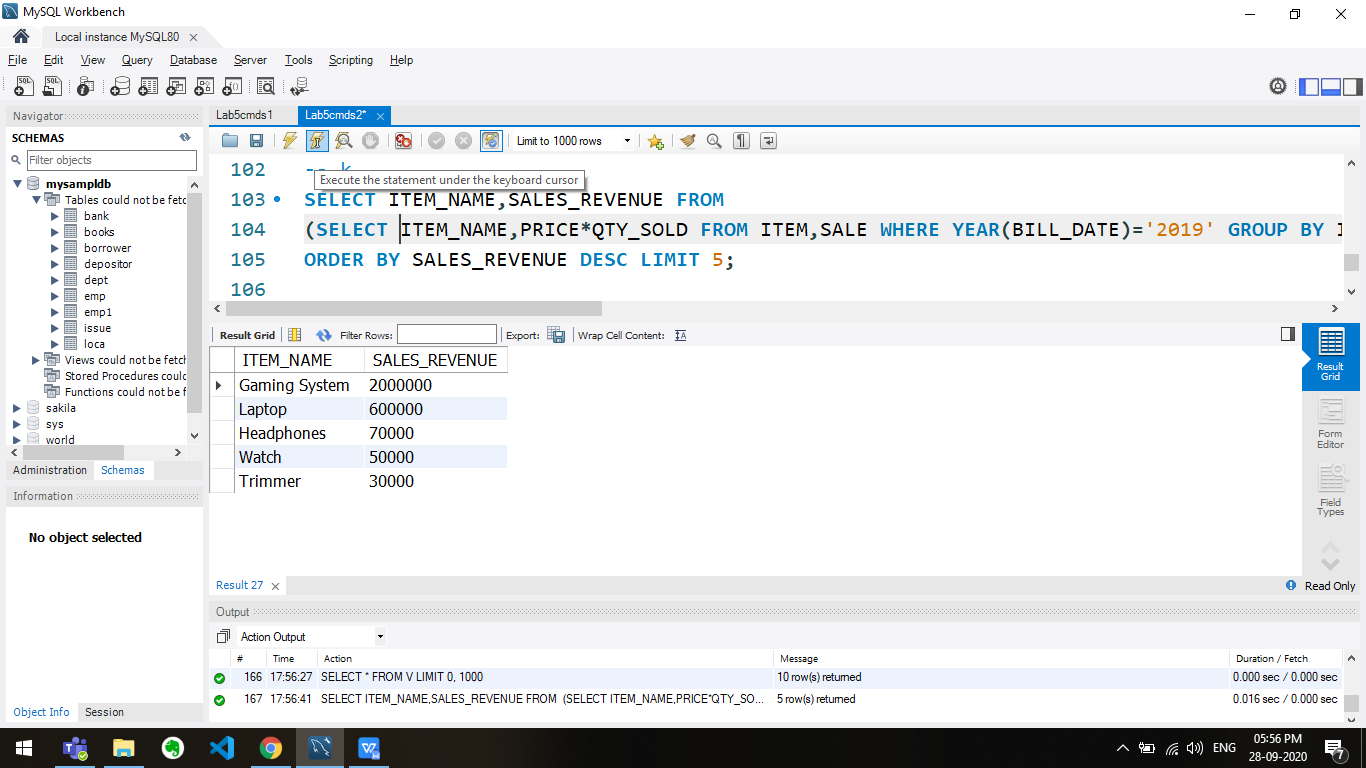


-- k

SELECT ITEM\_NAME,SALES\_REVENUE FROM

(SELECT ITEM\_NAME,PRICE\*QTY\_SOLD FROM ITEM,SALE WHERE YEAR(BILL\_DATE)='2019' GROUP BY ITEM\_NAME) AS ITEM\_SALES(ITEM\_NAME,SALES\_REVENUE)

ORDER BY SALES\_REVENUE DESC LIMIT 5;



-- l

SELECT typeC, count(typeC) from(

SELECT CUST\_ID,

case

when (SUM(QTY\_SOLD \* price) < 10000 ) then 'Silver'

when (SUM(QTY\_SOLD \* price) >= 10000 AND SUM(QTY\_SOLD \* price) < 50000) then 'Gold'

when (SUM(QTY\_SOLD \* price) > 50000 ) then 'Platinum'

end

as typeC

from SALE, ITEM

where SALE.ITEM\_ID = ITEM.item\_id

group by cust\_id) AS cust\_types

GROUP BY typeC;

