DBMS LAB 5

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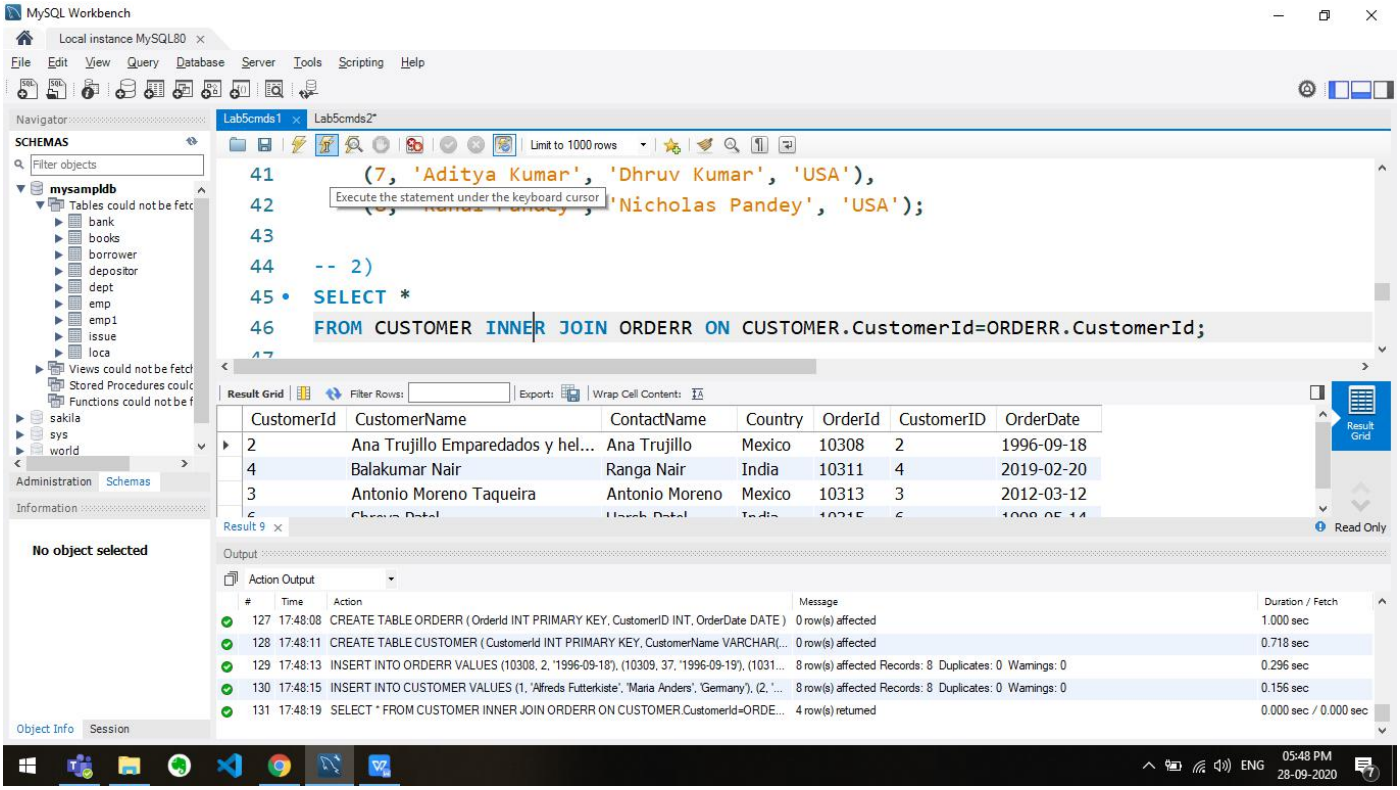
Q1

```
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');
```

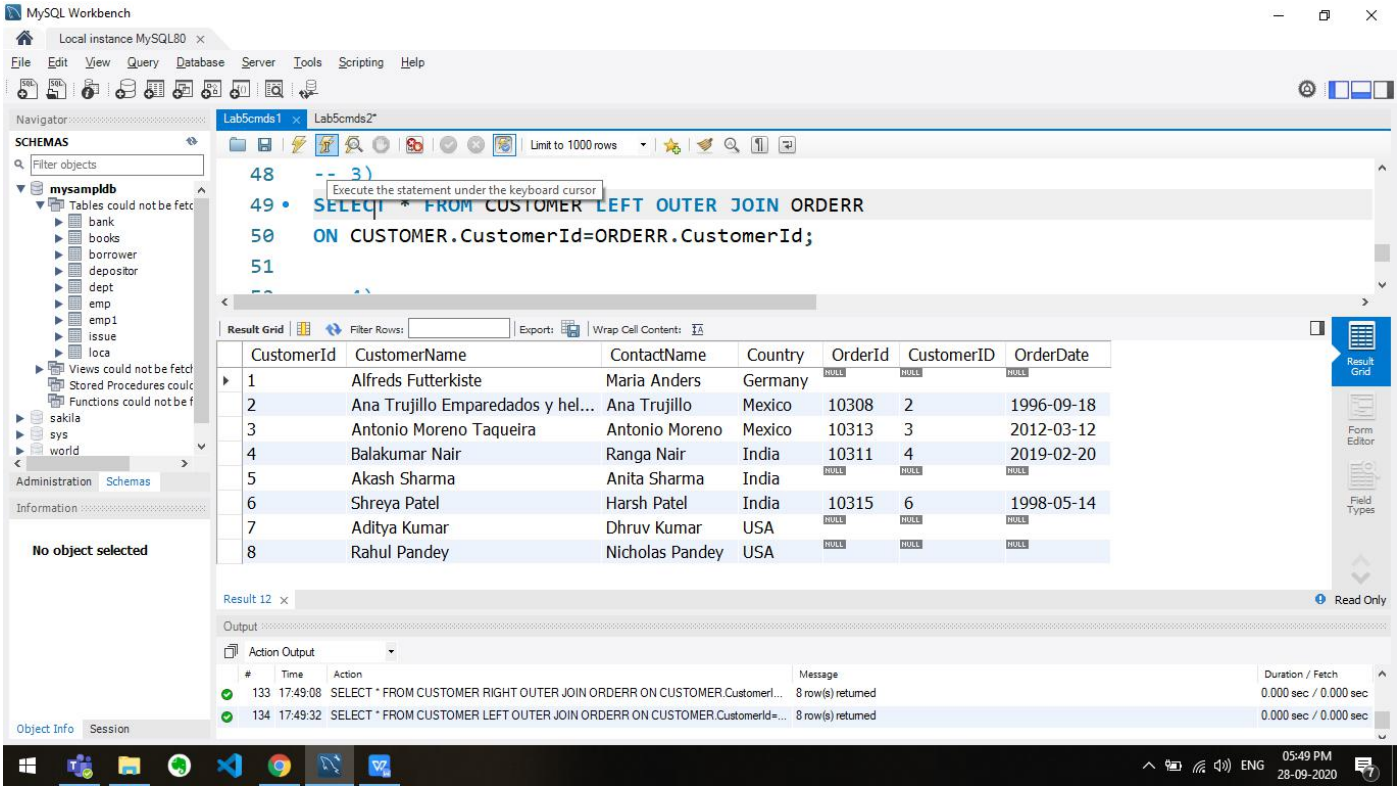
-- 2)

```
SELECT *
FROM CUSTOMER INNER JOIN ORDERR ON CUSTOMER.CustomerId=ORDERR.CustomerId;
```



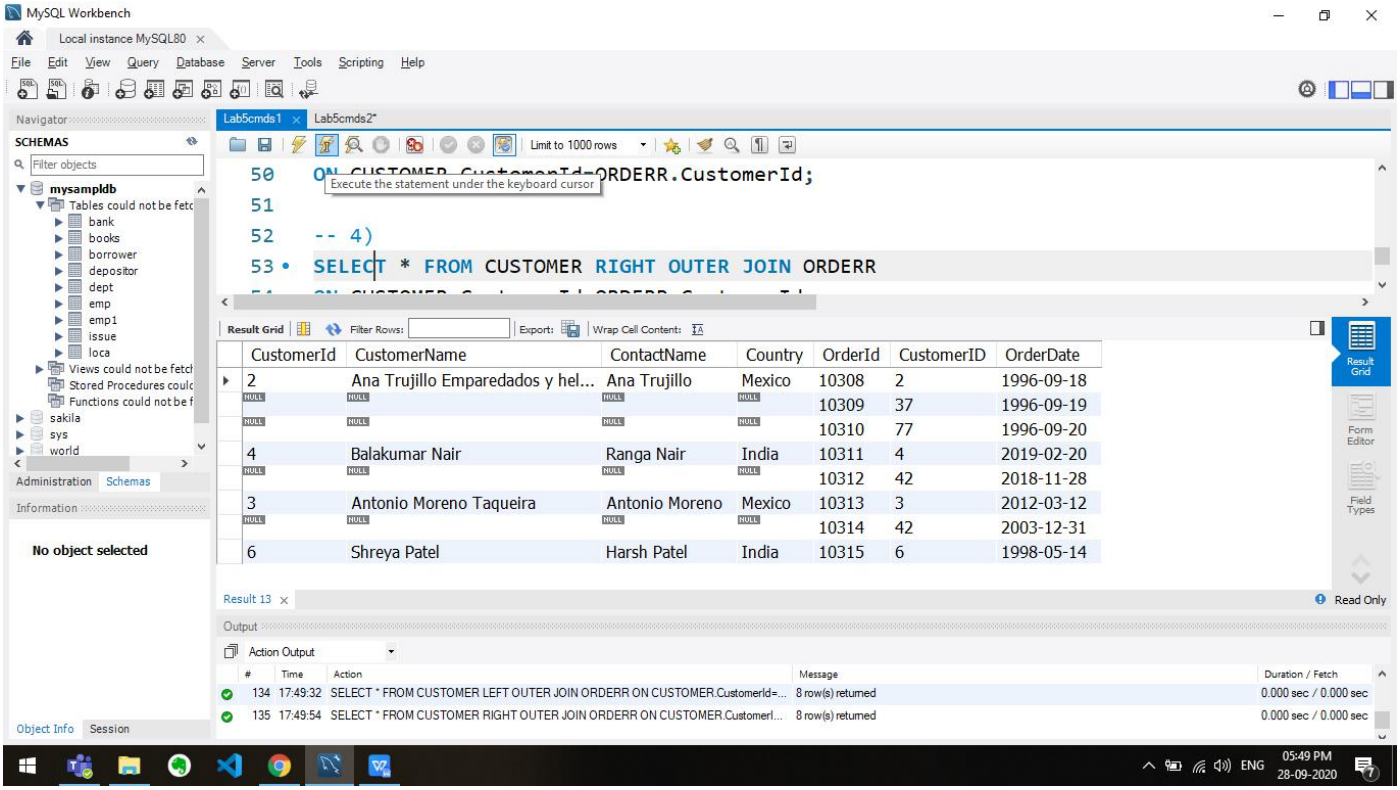
-- 3)

```
SELECT * FROM CUSTOMER LEFT OUTER JOIN ORDERR
ON CUSTOMER.CustomerId=ORDERR.CustomerId;
```



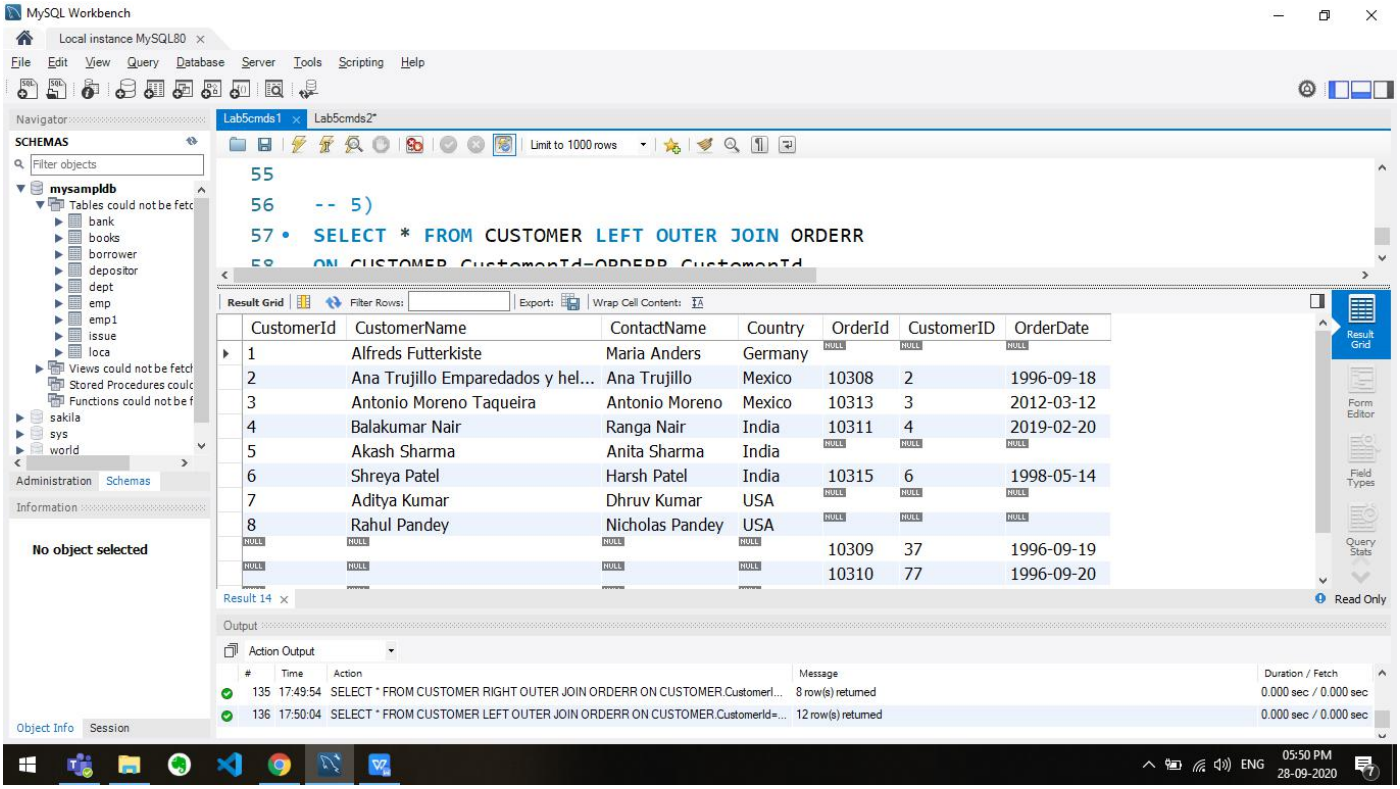
-- 4)

```
SELECT * FROM CUSTOMER RIGHT OUTER JOIN ORDERR
ON CUSTOMER.CustomerId=ORDERR.CustomerId;
```



-- 5)

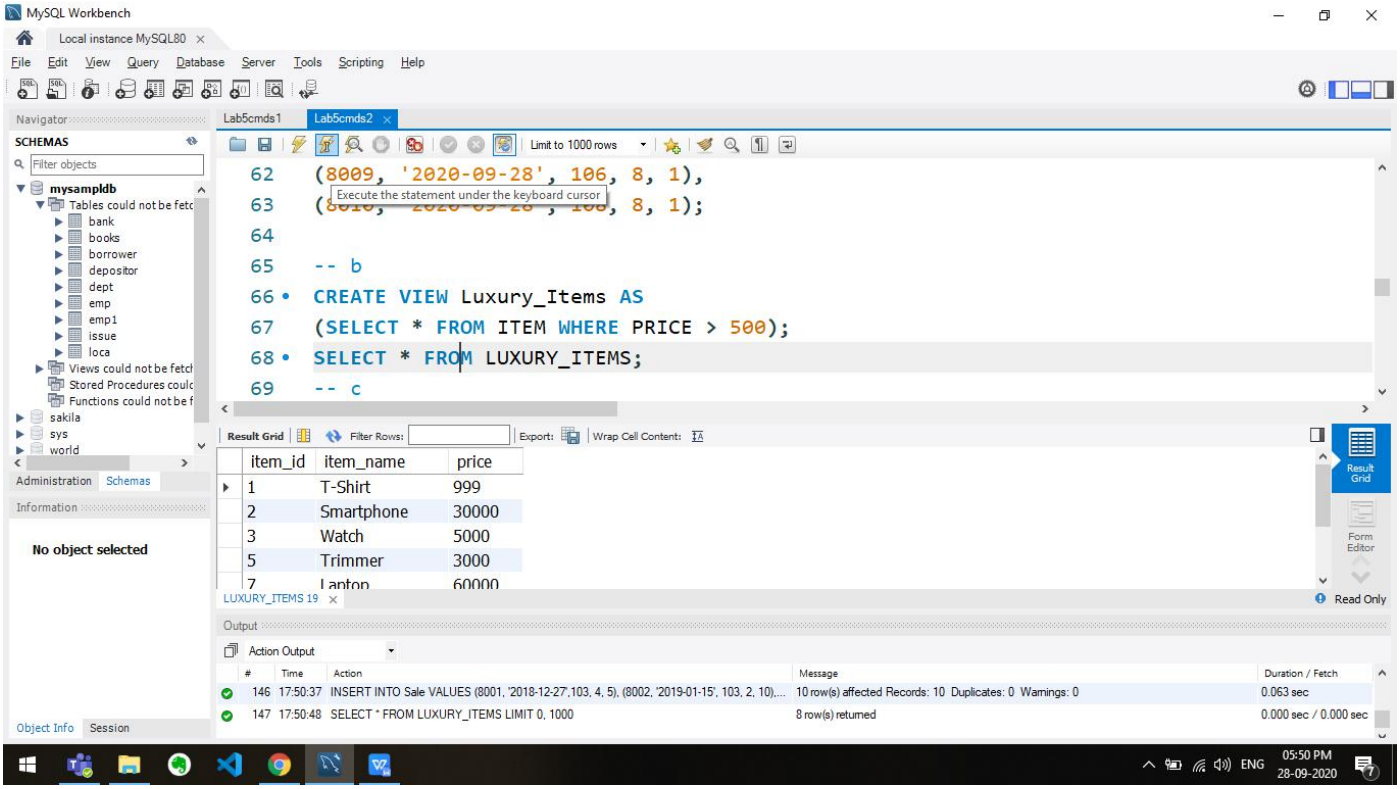
```
SELECT * FROM CUSTOMER LEFT OUTER JOIN ORDERR
ON CUSTOMER.CustomerId=ORDERR.CustomerId
UNION
SELECT * FROM CUSTOMER RIGHT OUTER JOIN ORDERR
ON CUSTOMER.CustomerId=ORDERR.CustomerId;
```



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,
```

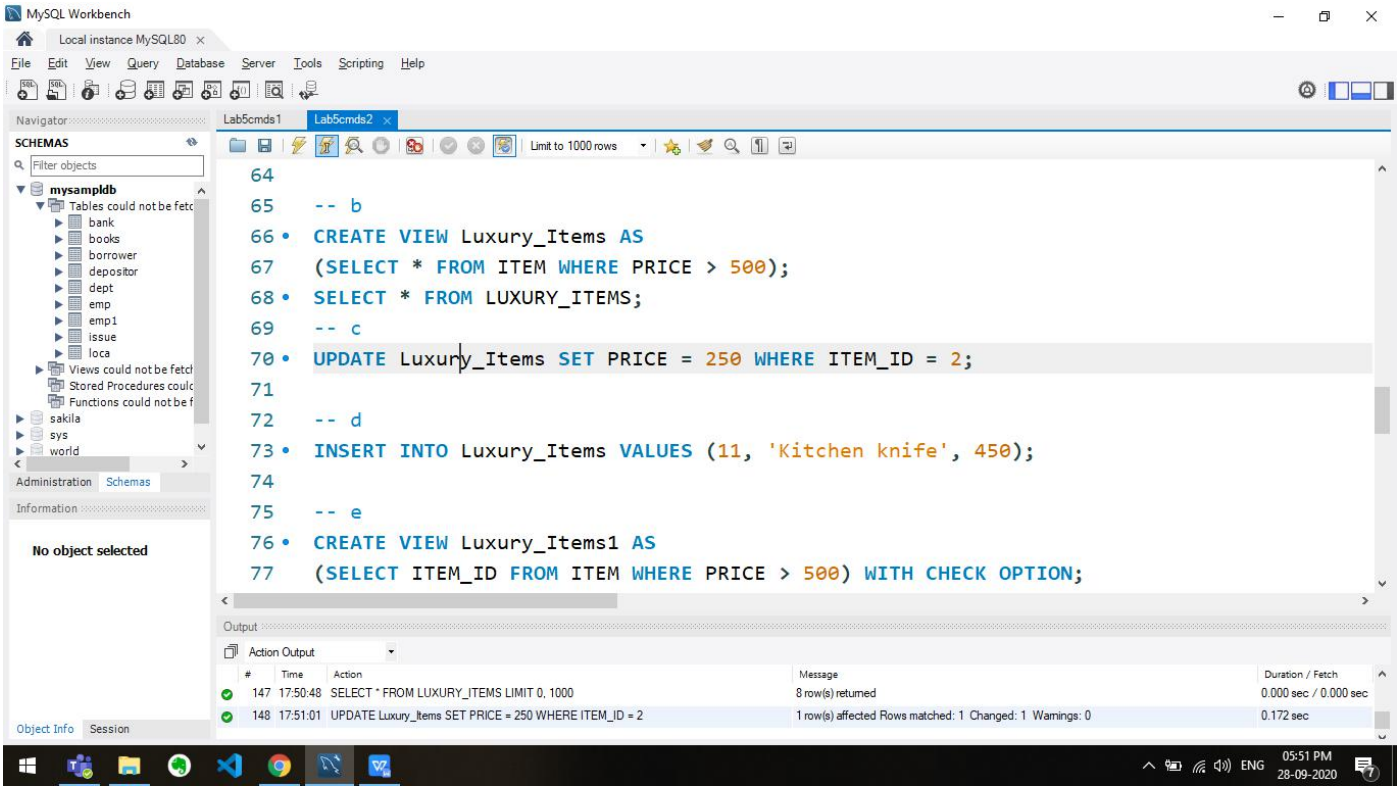
```
        bill_date DATE,
        cust_id INT,
        item_id INT,
        qty_sold INT DEFAULT 0
);

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;

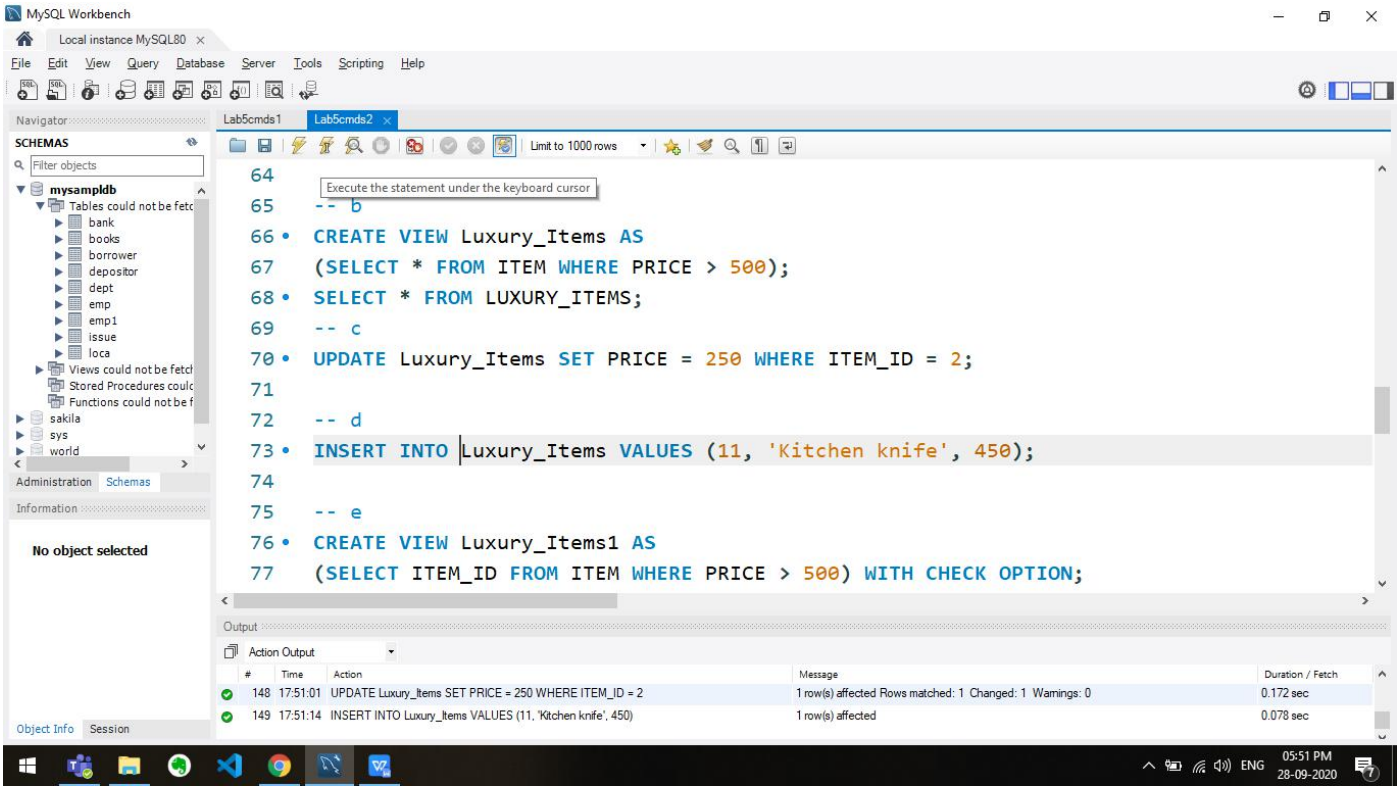
-- c

UPDATE Luxury_Items SET PRICE = 250 WHERE ITEM_ID = 2;

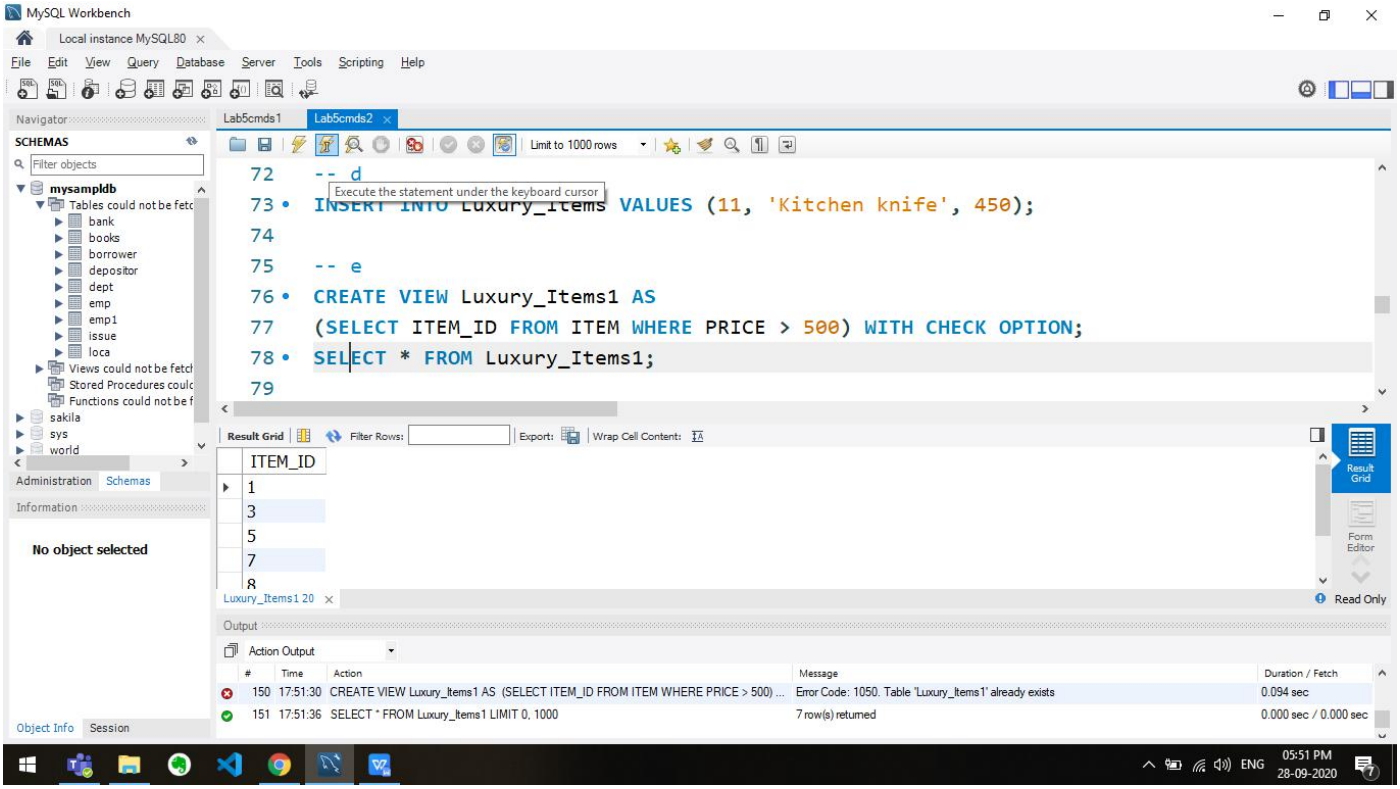


-- d

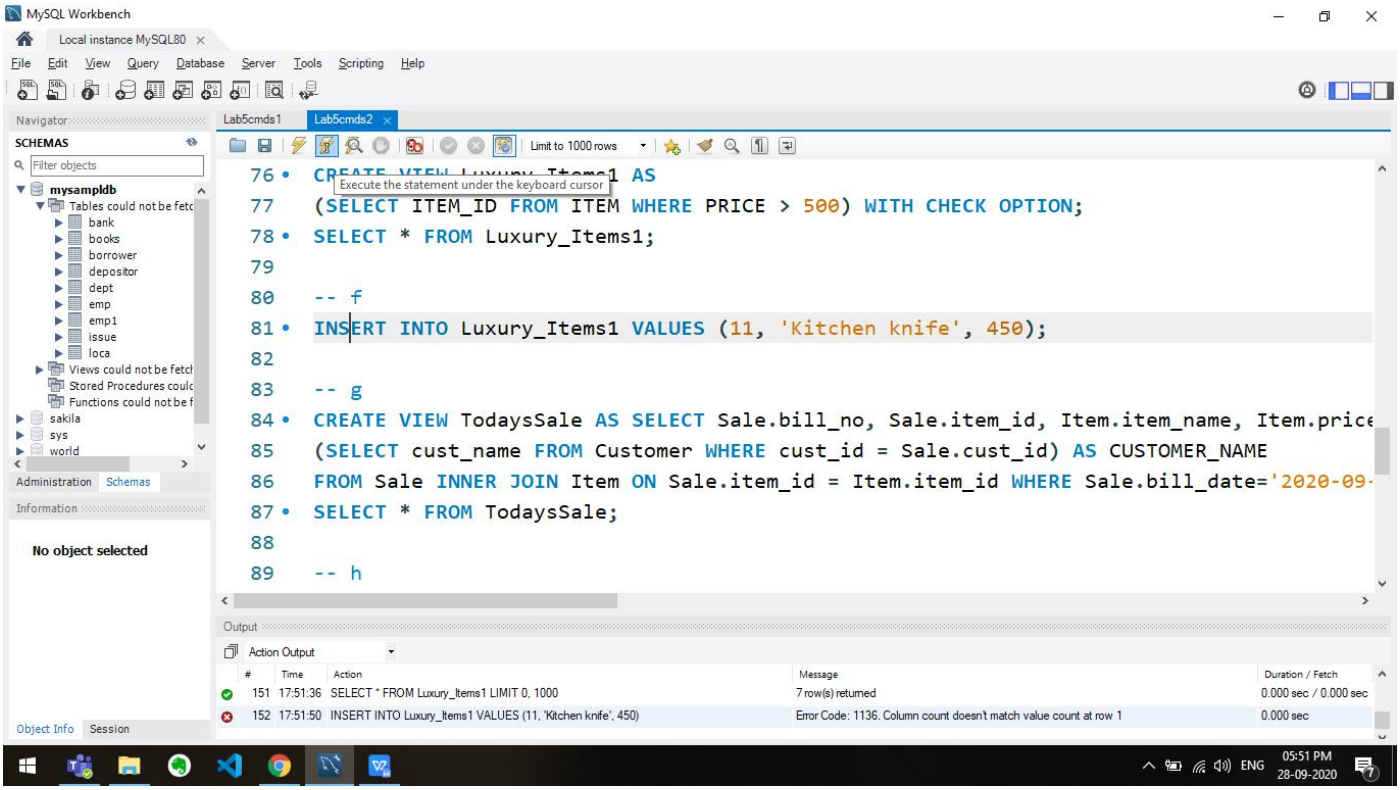
INSERT INTO Luxury_Items VALUES (11, 'Kitchen knife', 450);



-- e
CREATE VIEW Luxury_Items1 AS
(SELECT ITEM_ID FROM ITEM WHERE PRICE > 500) WITH CHECK OPTION;
SELECT * FROM Luxury_Items1;



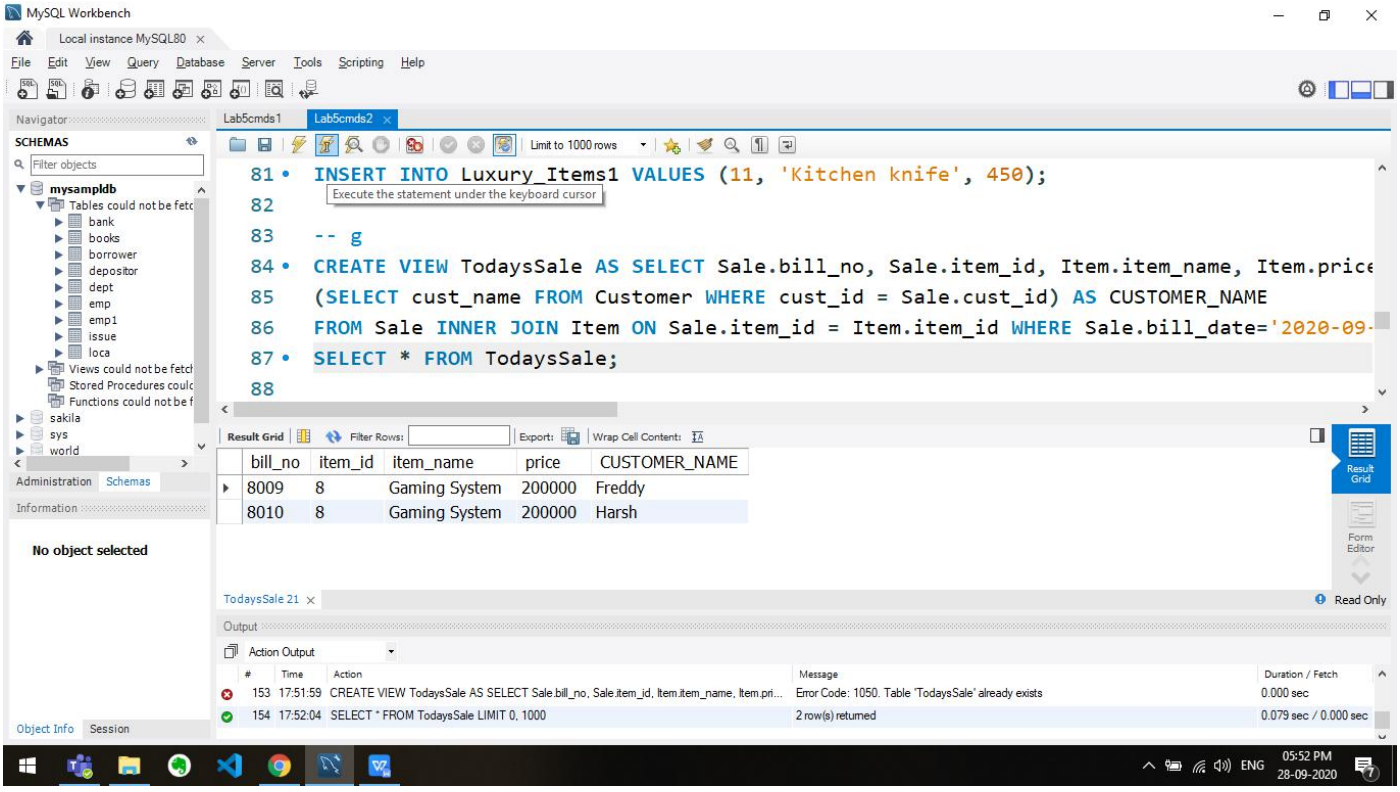
-- f
INSERT INTO Luxury_Items1 VALUES (11, 'Kitchen knife', 450);



-- 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;

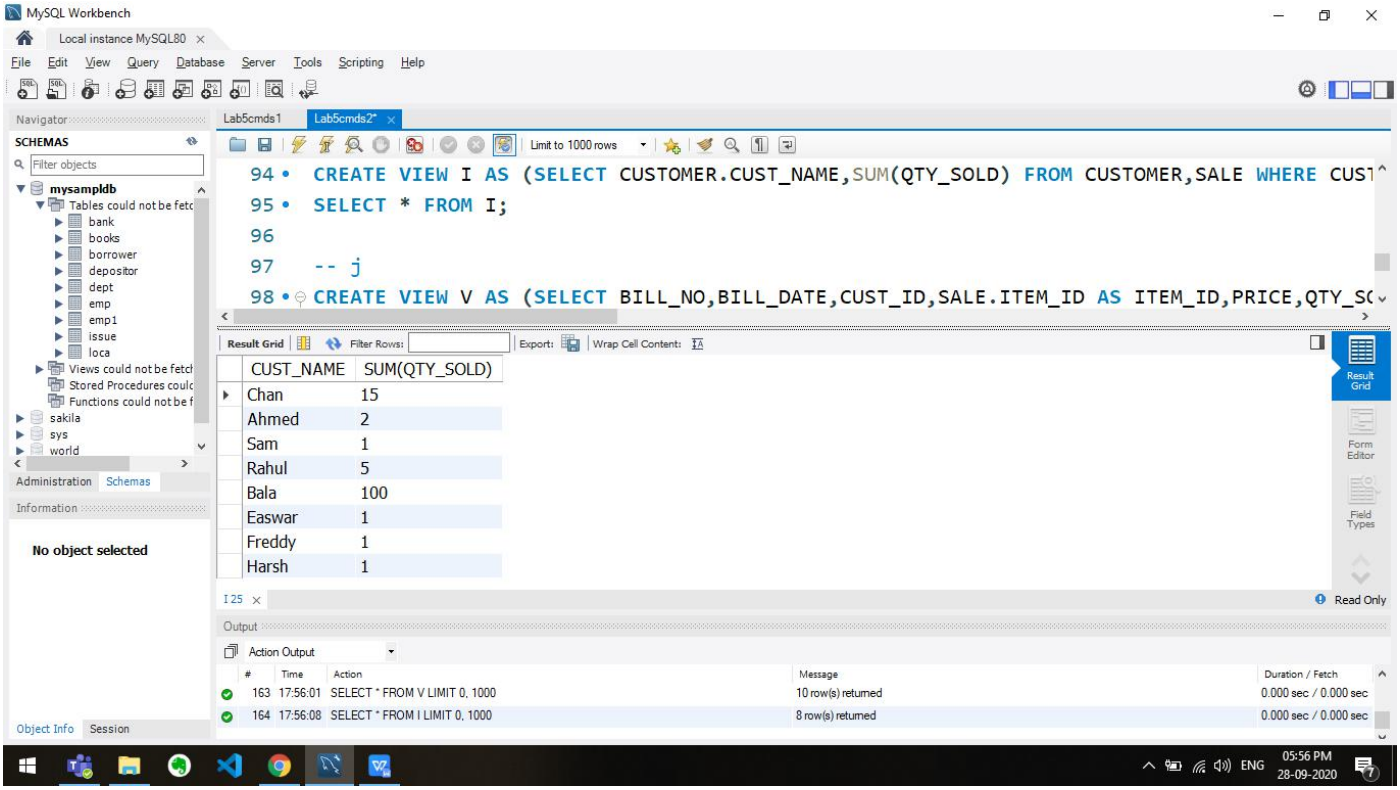


-- h

UPDATE TodaysSale SET PRICE = 900 WHERE item_id = 2;

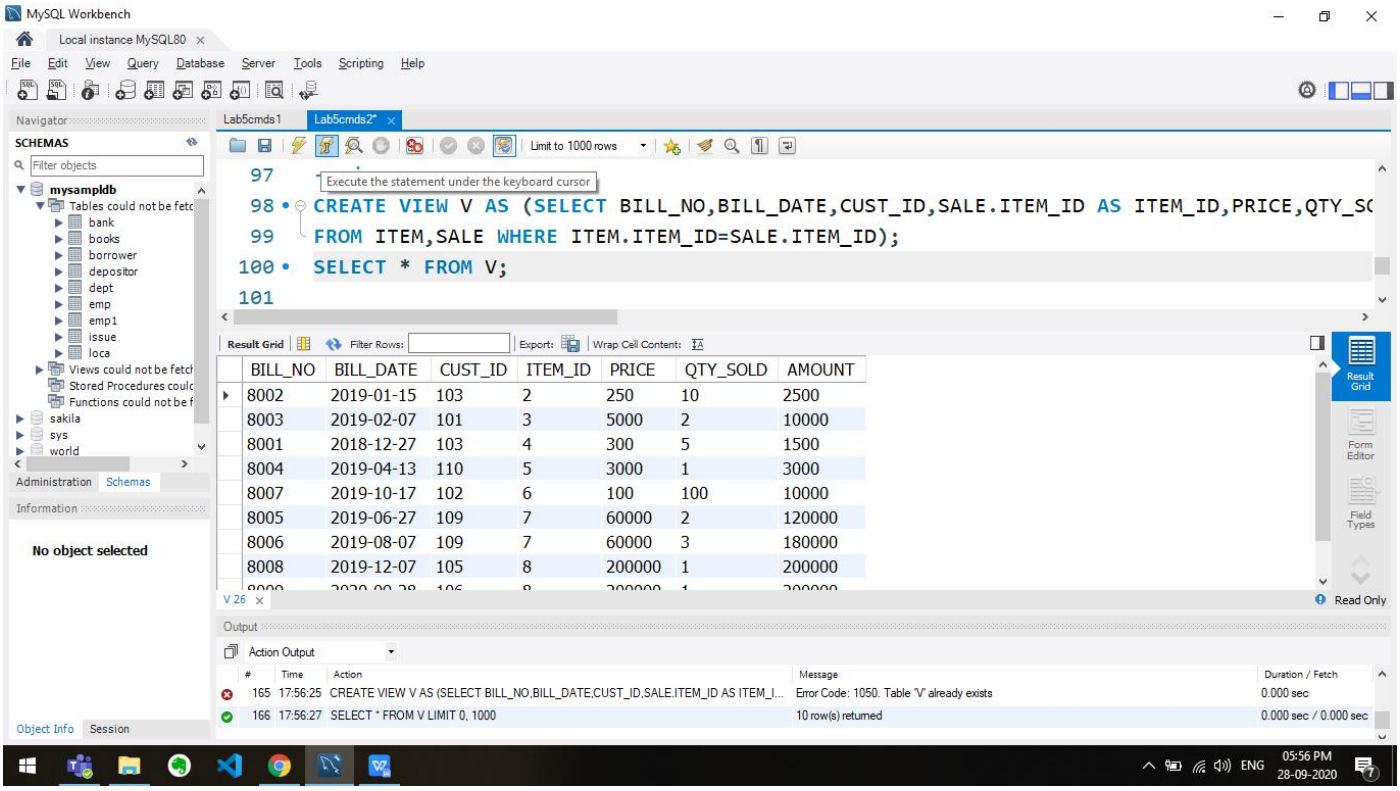
-- i

```
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;
```



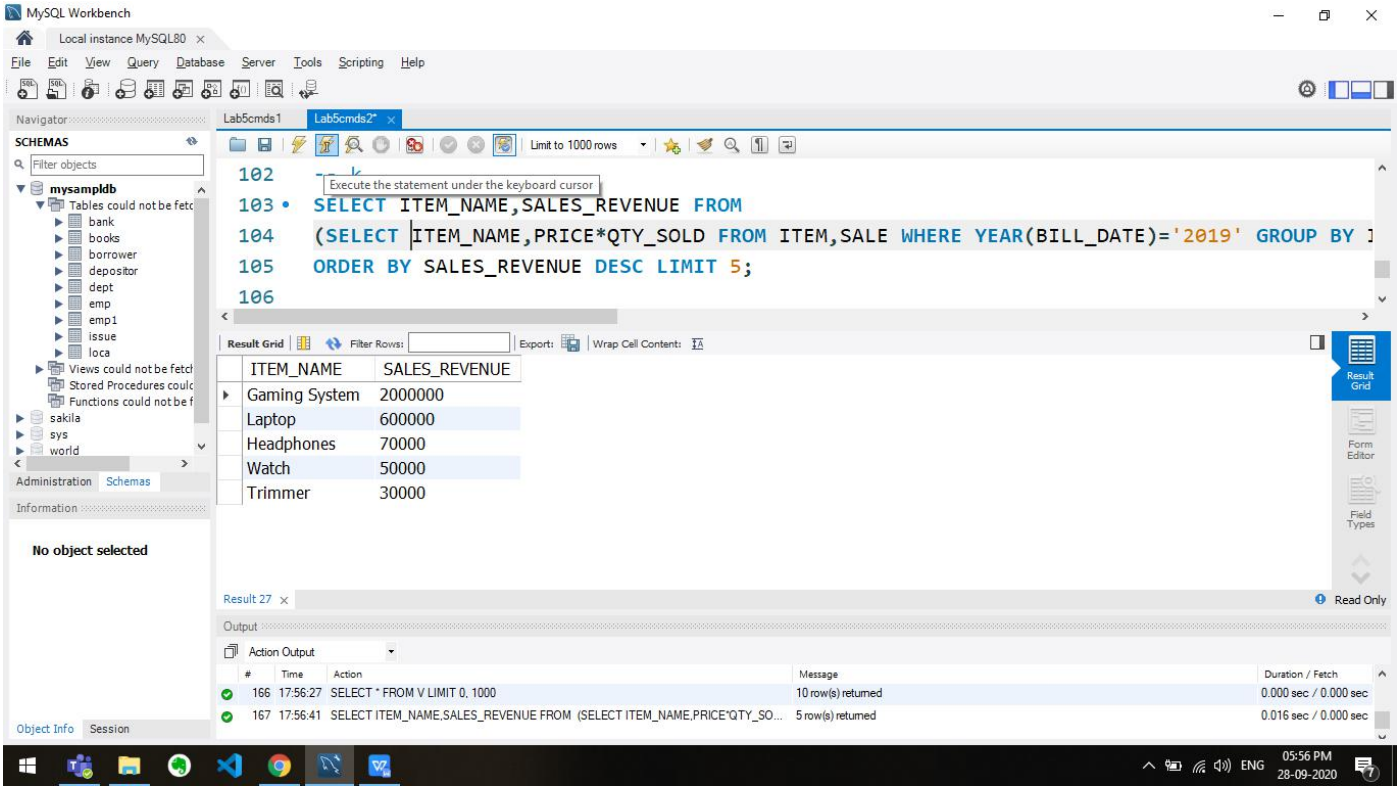
-- j

```
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;
```