**Instruction**

CREATE DATABASE Lucky\_Shrub;

USE Lucky\_Shrub;

CREATE TABLE Orders (OrderID INT NOT NULL PRIMARY KEY, ClientID VARCHAR(10), ProductID VARCHAR(10), Quantity INT, Cost DECIMAL(6,2), Date DATE);

INSERT INTO Orders(OrderID, ClientID, ProductID , Quantity, Cost, Date) VALUES

(1, "Cl1", "P1", 10, 500, "2020-09-01"), (2, "Cl2", "P2", 5, 100, "2020-09-05"),

(3, "Cl3", "P3", 20, 800, "2020-09-03"), (4, "Cl4", "P4", 15, 150, "2020-09-07"),

(5, "Cl3", "P3", 10, 450, "2020-09-08"), (6, "Cl2", "P2", 5, 800, "2020-09-09"),

(7, "Cl1", "P4", 22, 1200, "2020-09-10"), (8, "Cl3", "P1", 15, 150, "2020-09-10"),

(9, "Cl1", "P1", 10, 500, "2020-09-12"), (10, "Cl2", "P2", 5, 100, "2020-09-13"),

(11, "Cl4", "P5", 5, 100, "2020-09-15"), (12, "Cl1", "P1", 10, 500, "2022-09-01"),

(13, "Cl2", "P2", 5, 100, "2022-09-05"), (14, "Cl3", "P3", 20, 800, "2022-09-03"),

(15, "Cl4", "P4", 15, 150, "2022-09-07"), (16, "Cl3", "P3", 10, 450, "2022-09-08"),

(17, "Cl2", "P2", 5, 800, "2022-09-09"), (18, "Cl1", "P4", 22, 1200, "2022-09-10"),

(19, "Cl3", "P1", 15, 150, "2022-09-10"), (20, "Cl1", "P1", 10, 500, "2022-09-12"),

(21, "Cl2", "P2", 5, 100, "2022-09-13"), (22, "Cl2", "P1", 10, 500, "2021-09-01"),

(23, "Cl2", "P2", 5, 100, "2021-09-05"), (24, "Cl3", "P3", 20, 800, "2021-09-03"),

(25, "Cl4", "P4", 15, 150, "2021-09-07"), (26, "Cl1", "P3", 10, 450, "2021-09-08"),

(27, "Cl2", "P1", 20, 1000, "2022-09-01"), (28, "Cl2", "P2", 10, 200, "2022-09-05"),

(29, "Cl3", "P3", 20, 800, "2021-09-03"), (30, "Cl1", "P1", 10, 500, "2022-09-01");

\* Develop a user defined function.

CREATE FUNCTION FindCost(order\_id INT)

RETURNS DECIMAL (5,2) DETERMINISTIC

RETURN (SELECT Cost FROM Orders WHERE OrderID = order\_id);

\* Develop a stored procedure.

DELIMITER //

CREATE Procedure GetDiscount(OrderIDInput INT)

BEGIN

DECLARE cost\_after\_discount DECIMAL(7,2);

DECLARE current\_cost DECIMAL(7,2);

DECLARE order\_quantity INT;

SELECT Quantity INTO order\_quantity FROM Orders WHERE OrderID = OrderIDInput;

SELECT Cost INTO current\_cost FROM Orders WHERE OrderID = OrderIDInput;

IF order\_quantity >= 20 THEN

SET cost\_after\_discount = current\_cost - (current\_cost \* 0.2);

ELSEIF (order\_quantity >= 10) THEN

SET cost\_after\_discount = current\_cost - (current\_cost \* 0.1);

ELSE SET cost\_after\_discount = current\_cost;

END IF;

SELECT cost\_after\_discount;

END//

DELIMITER ;

to excute→ CALL GetDiscount(5);