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/* Lab 5-1 Solution*/
USE Kashyap
CREATE FUNCTION getTotalSales (@year int,@month int)
RETURNS INT
AS
BEGIN
      DECLARE @TotSale INT;
      SELECT @TotSale = SUM(TotalDue)
      FROM AdventureWorks2008R2.Sales.SalesOrderHeader
      WHERE YEAR (OrderDate) = @year AND MONTH (OrderDate) = @month
      GROUP BY YEAR (OrderDate), MONTH (OrderDate)
      RETURN ISNULL(@TotSale,0)
END
USE
      Kashyap
SELECT dbo.[getTotalSales](2007,8) as TotalSales
DROP FUNCTION getTotalSales
/* Lab 5-2 Solution*/
USE Kashyap
CREATE TABLE DateRange
(DateID INT IDENTITY,
DateValue DATE,
DayOfWeek INT,
Month INT,
);
CREATE PROCEDURE PopulateDateRange
      @startDate DATE,
      @numofdates INT
AS
BEGIN
      DECLARE @count INT = 0;
      WHILE @count<@numofdates
      BEGIN
            DECLARE @dateSet DATE=dateadd(day,@count,@startDate);
            DECLARE @dayofweek INT=datepart(dw,@dateSet);
            DECLARE @month INT=month(@dateSet);
            INSERT INTO DateRange
                  VALUES(@dateSet,
                              @dayofweek,
                              @month
                              );
            SET @count+=1;
      END
END
---Execute the Procedure
EXEC PopulateDateRange '2022-04-06',10
--- Check the table
SELECT * FROM DateRange
```

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/* Lab 5-3 Solution*/
CREATE TABLE Customer
(CustomerID VARCHAR(20) PRIMARY KEY,
CustomerLName VARCHAR(30),
CustomerFName VARCHAR(30),
CustomerStatus VARCHAR(10));
CREATE TABLE SaleOrder
(OrderID INT IDENTITY PRIMARY KEY,
 CustomerID VARCHAR(20) REFERENCES Customer(CustomerID),
OrderDate DATE,
OrderAmountBeforeTax INT);
CREATE TABLE SaleOrderDetail
(OrderID INT REFERENCES SaleOrder(OrderID),
 ProductID INT,
 Quantity INT,
UnitPrice INT,
PRIMARY KEY (OrderID, ProductID));
SELECT * FROM Customer
CREATE TRIGGER tr_CustomerStatus
ON dbo.SaleOrder
AFTER INSERT, UPDATE, DELETE AS
      DECLARE @total money = 0;
      DECLARE @custid varchar(20);
      DECLARE @status varchar(10);
      SELECT @custid = isnull (i.CustomerID, d.CustomerID)
            FROM inserted i full join deleted d
            ON i.CustomerID = d.CustomerID;
      SELECT @total = sum(OrderAmountBeforeTax)
            FROM saleOrder
            WHERE CustomerID = @custid;
      IF @total > 5000
            SET @status = 'Preferred'
      ELSE
            SET @status = 'Normal';
      UPDATE Customer
            SET CustomerStatus = @status
            WHERE CustomerID = @custid
END
INSERT Customer VALUES ('100','Scott','Dora','Normal');
INSERT SaleOrder VALUES ('100','2022-04-04',1000);
SELECT * FROM Customer;
SELECT * FROM SaleOrder
```

```
INSERT SaleOrder VALUES ('100', '2022-04-05', 5000);
SELECT * FROM Customer;
SELECT * FROM SaleOrder
UPDATE SaleOrder SET OrderAmountBeforeTax = 1000
WHERE CustomerID = '100' and OrderDate = '2022-04-05';
SELECT * FROM Customer;
SELECT * FROM SaleOrder;
INSERT SaleOrder VALUES ('100', '2022-04-04', 10000);
SELECT * FROM Customer;
SELECT * FROM SaleOrder;
DELETE SaleOrder WHERE CustomerID = '100' and OrderDate = '2022-04-04';
SELECT * FROM Customer;
SELECT * FROM SaleOrder;
DROP TRIGGER tr_CustomerStatus
DROP TABLE SaleOrderDetail
DROP TABLE SaleOrder
DROP TABLE Customer
```