CREATE TABLE Item(

Item\_id INT PRIMARY KEY,

Item\_name VARCHAR(15)

);

CREATE TABLE Shop(

Shop\_id INT PRIMARY KEY,

Shop\_name VARCHAR(25)

);

CREATE TABLE Unit\_details(

Unit\_id INT PRIMARY KEY,

Unit VARCHAR(20),

Count INT

)

CREATE TABLE Sales\_order\_details(

Item\_id INT,

shop\_id INT,

Quantity INT,

Unit\_id INT,

Unit\_price INT,

sale\_date DATE,

CONSTRAINT fk\_item FOREIGN KEY(Item\_id) REFERENCES Item(Item\_id),

CONSTRAINT fk\_shop FOREIGN KEY(shop\_id) REFERENCES Shop(shop\_id),

CONSTRAINT fk\_unit FOREIGN KEY(Unit\_id) REFERENCES Unit\_details(unit\_id)

);

INSERT INTO Item(Item\_id,Item\_name)

VALUES (1,'Bar-One'),(2,'KitKat'),(3,'MilkyBar'),

(4,'Munch')

INSERT INTO Shop(Shop\_id,Shop\_name)

VALUES (1,'Amal Stores'),(2,'Jyothi Stores'),(3,'Indira Stores')

INSERT INTO Unit\_details

VALUES(1,'Piece',1),

(2,'Box Pack',28)

INSERT INTO Sales\_order\_details(Item\_id,shop\_id,Quantity,Unit\_id,Unit\_price,sale\_date)

VALUES (1,1,100,1,10,'2018-10-05'),

(2,1,200,1,15,'2018-10-05'),

(3,1,50,1,5,'2018-10-05'),

(4,1,150,1,10,'2018-10-05'),

(1,2,10,2,280,'2018-10-10'),

(2,2,30,2,420,'2018-10-10'),

(3,2,40,2,140,'2018-10-10'),

(4,2,20,2,280,'2018-10-10'),

(1,3,50,2,280,'2018-09-15'),

(2,3,70,2,420,'2018-09-15'),

(3,3,30,2,140,'2018-10-10'),

(1,1,150,1,10,'2018-09-15'),

(2,1,250,1,15,'2018-09-15'),

(4,1,200,1,10,'2018-10-10')

--Q1.2

SELECT TOP 1 Item\_name,SUM(Quantity\*Unit\_price) AS revenue FROM Item i

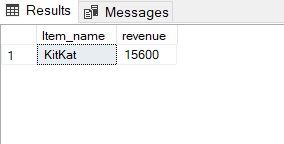
INNER JOIN Sales\_order\_details s

ON i.Item\_id = s.Item\_id

WHERE MONTH(sale\_date) =10

GROUP BY i.Item\_name

ORDER BY revenue DESC



--Q1.3

SELECT TOP 1 I.Item\_name,SUM(SO.Quantity) AS TotalQuantitySold

FROM

Item AS I

INNER JOIN Sales\_order\_details AS SO ON I.Item\_id = SO.Item\_id

INNER JOIN Shop AS S ON SO.shop\_id = S.Shop\_id

WHERE

DATEPART(MONTH,SO.sale\_date) =10

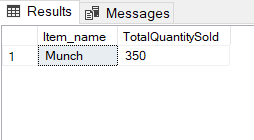
AND SO.shop\_id= 1

GROUP BY

I.Item\_name

ORDER BY

TotalQuantitySold DESC



--Q1.4

SELECT

I.Item\_name,

SUM(S.Unit\_price \* S.Quantity) AS TotalRevenue

FROM

Sales\_order\_details S

INNER JOIN ITEM I ON S.Item\_id = I.Item\_id

WHERE

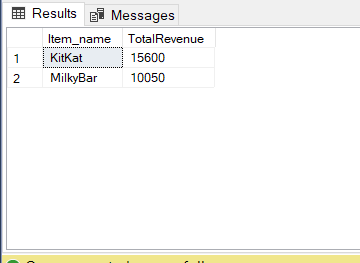
DATEPART(MONTH,S.sale\_date) = 10

GROUP BY

I.Item\_name

HAVING

SUM(S.Unit\_price \* S.Quantity) > 10000



--Q1.5

SELECT TOP 1

SP.Shop\_name,

SUM(S.Unit\_price \* S.Quantity) AS TotalRevenue

FROM

Sales\_order\_details S

INNER JOIN SHOP SP ON S.Shop\_id = SP.Shop\_id

WHERE

DATEPART(MONTH,S.sale\_date) = 10

GROUP BY

SP.Shop\_name

ORDER BY

TotalRevenue DESC

