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Bimal Murali - PL2121
1.1
CREATE TABLE Items
 (ItemID INT PRIMARY KEY,
 ItemName VARCHAR(40)
 )
CREATE TABLE Shops
 (ShopID INT PRIMARY KEY,
 ShopName VARCHAR(40)
 )
INSERT INTO Items VALUES
(1,'Bar-one'),
 (2,'Kitkat'),
 (3,'MilkyBar'),
 (4,'Munch')
INSERT INTO Shops VALUES
 (1,'AmalStores'),
 (2,'JyothiStores'),
 (3,'IndiraStores')
CREATE TABLE SaleDates (
  SaleDateID INT PRIMARY KEY,
  SaleDate DATE NOT NULL
INSERT INTO SaleDates (SaleDateID, SaleDate)
VALUES
  (1, '2018-10-05'),
  (2, '2018-10-10'),
  (3, '2018-09-15');
CREATE TABLE Sales (
  SaleID INT PRIMARY KEY,
  SaleDateID INT,
  ShopID INT,
  ItemID INT,
  Quantity INT,
  UnitPrice DECIMAL INT
  FOREIGN KEY (SaleDateID) REFERENCES SaleDates (SaleDateID),
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FOREIGN KEY (ShopID) REFERENCES Shops (ShopID), FOREIGN KEY (ItemID) REFERENCES Items (ItemID))

INSERT INTO Sales(SaleID, SaleDateID, ShopID, ItemID, Quantity, UnitPrice) VALUES

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(1, 1, 1, 1, 100, 10),
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$$(6, 2, 2, 2, 30 * 28, 420/28),$$

$$(7, 2, 2, 3, 40 * 28, 140/28),$$

$$(9, 3, 3, 1, 50 * 28, 280/28),$$

$$(10, 3, 3, 2, 70 * 28, 420/28),$$

$$(11, 3, 3, 3, 30 * 28, 140/28),$$

(14, 3, 1, 4, 200, 10);

SELECT * FROM sales

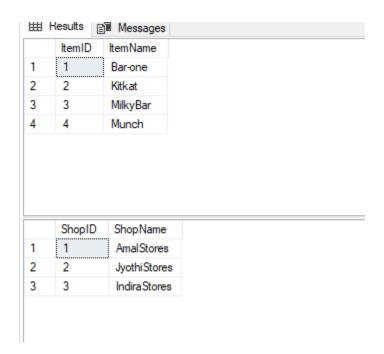
SELECT * FROM saledates

SELECT * FROM Items

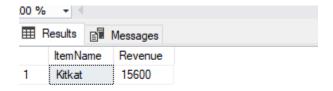
SELECT * FROM Shops

	SaleID	SaleDateID	ShopID	ItemID	Quantity	UnitPrice
1	1	1	1	1	100	10
2	2	1	1	2	200	15
3	3	1	1	3	50	5
4	4	1	1	4	150	10
5	5	2	2	1	280	10
6	6	2	2	2	840	15
7	7	2	2	3	1120	5
8	8	2	2	4	560	10
9	9	3	3	1	1400	10
10	10	3	3	2	1960	15
11	11	3	3	3	840	5
12	12	3	1	1	150	10
13	13	3	1	2	250	15
14	14	3	1	4	200	10

	SaleDateID	SaleDate
1	1	2018-10-05
2	2	2018-10-10
3	3	2018-09-15



--1.2
SELECT TOP 1 I.ItemName,SUM(S.Quantity * S.UnitPrice) AS Revenue
FROM Sales S
JOIN SaleDates SD ON S.SaleDateID = SD.SaleDateID
JOIN Items I ON S.ItemID = I.ItemID
WHERE MONTH(SD.SaleDate) = 10
GROUP BY I.ItemName
ORDER BY Revenue DESC



--1.3

SELECT TOP 1 I.ItemName, SUM(S.Quantity) AS TotalQuantity FROM Sales S

JOIN SaleDates SD ON S.SaleDateID = SD.SaleDateID

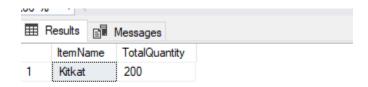
JOIN Items I ON S.ItemID = I.ItemID

JOIN Shops SH ON S.ShopID = SH.ShopID

WHERE MONTH(SD.SaleDate) = 10 AND SH.ShopName = 'AmalStores'

GROUP BY I.ItemName

ORDER BY TotalQuantity DESC



-1.4

SELECT I.ItemName, SUM(S.Quantity * S.UnitPrice) AS Revenue

FROM Sales S

JOIN SaleDates SD ON S.SaleDateID = SD.SaleDateID

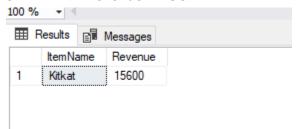
JOIN Items I ON S.ItemID = I.ItemID

WHERE MONTH(SD.SaleDate) = 10

GROUP BY I.ItemName

HAVING SUM(S.Quantity * S.UnitPrice) > 10000

ORDER BY Revenue DESC



--1.5

SELECT TOP 1 SH.ShopName,SUM(S.Quantity * S.UnitPrice) AS Revenue FROM Sales S
JOIN SaleDates SD ON S.SaleDateID = SD.SaleDateID
JOIN Shops SH ON S.ShopID = SH.ShopID
WHERE MONTH(SD.SaleDate) = 10
GROUP BY SH.ShopName
ORDER BY Revenue DESC

