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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(10, 2),
  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

(1, 1, 1, 1, 100, 10.00), (2, 1, 1, 2, 200, 15.00), (3, 1, 1, 3, 50, 5.00), (4, 1, 1, 4, 150, 10.00), (5, 2, 2, 1, 10 * 28, 280.00), (6, 2, 2, 2, 30 * 28, 420.00), (7, 2, 2, 3, 40 * 28, 140.00), (8, 2, 2, 4, 20 * 28, 280.00), (9, 3, 3, 1, 50 * 28, 280.00), (10, 3, 3, 2, 70 * 28, 420.00), (11, 3, 3, 3, 30 * 28, 140.00), (12, 3, 1, 1, 150, 10.00), (13, 3, 1, 2, 250, 15.00), (14, 3, 1, 4, 200, 10.00);

SELECT * FROM sales

SELECT * FROM saledates

SELECT * FROM Items

SELECT * FROM Shops

	SaleID	SaleDateID		ShopID	ItemID	Quantity	UnitPrice
1	1	1		1	1	100	10.00
2	2	1		1	2	200	15.00
3	3	1		1	3	50	5.00
4	4	1		1	4	150	10.00
5	5	2		2	1	280	280.00
6	6	2		2	2	840	420.00
7	7	2		2	3	1120	140.00
8	8	2		2	4	560	280.00
	SaleDate	ID SaleDate		e			
1	1	1		0-05			
2	2		2018-10)-10			
3	3		2018-09	9-15			
	ItemID	Item	Name				
1	1	Bar-one					
2	2	Kitkat					
3	3	Mill	cyBar				
4	4	Munch					
	ShopID	Sh	opName				
1	1	An	nalStores				
2	2	Jy	othiStores	;			
3	3	Inc	diraStores				

--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

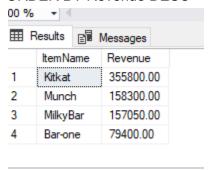
JOIN Items I ON S.ItemID = I.ItemID

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

