

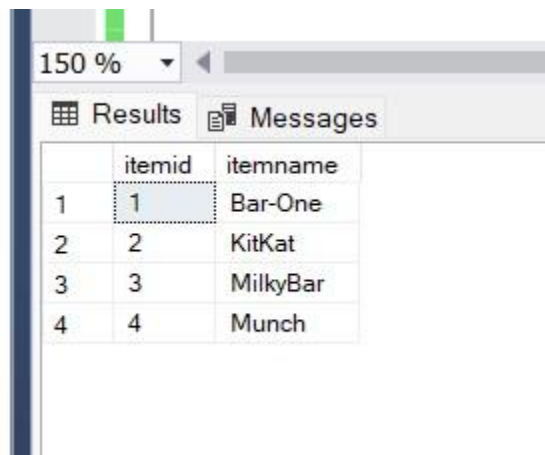
First Foundation set 1

1.1

```
CREATE DATABASE chocolatesales
USE chocolatesales
GO
```

```
CREATE TABLE items(itemid int primary key,itemname varchar(20))
INSERT INTO items(itemid, itemname)
VALUES
(1, 'Bar-One'),
(2, 'KitKat'),
(3, 'MilkyBar'),
(4, 'Munch');
```

Select * from items;



	itemid	itemname
1	1	Bar-One
2	2	KitKat
3	3	MilkyBar
4	4	Munch

```
CREATE TABLE Shops (
    ShopID INT PRIMARY KEY,
    ShopName VARCHAR(255) NOT NULL
);
```

```
INSERT INTO Shops (ShopID, ShopName)
VALUES
(1, 'Amal Stores'),
(2, 'Jyothi Stores'),
(3, 'Indira Stores');
```

select * from shops



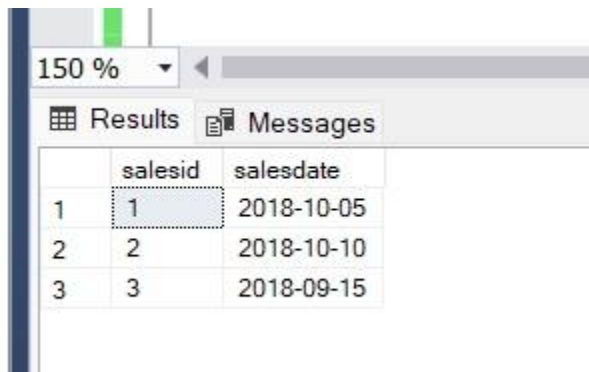
150 %

Results Messages

	ShopID	ShopName
1	1	Amal Stores
2	2	Jyothi Stores
3	3	Indira Stores

```
CREATE TABLE SalesDate(
    salesid INT PRIMARY KEY,
    salesdate DATE NOT NULL
);
```

```
insert into SalesDate(salesid, salesdate)
values
    (1, '2018-10-05'),
    (2, '2018-10-10'),
    (3, '2018-09-15');
```



150 %

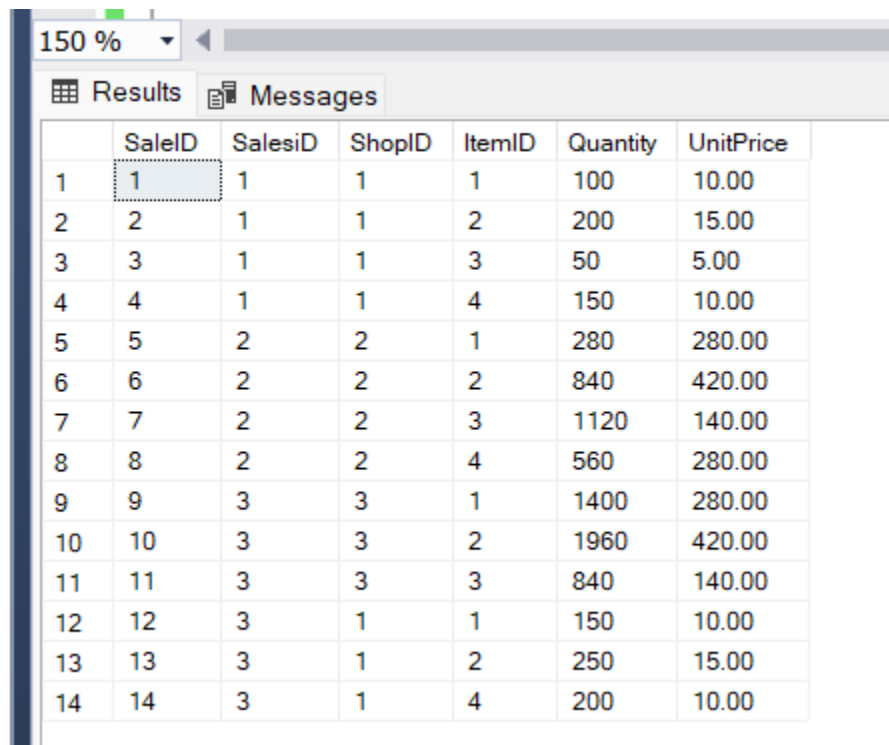
Results Messages

	salesid	salesdate
1	1	2018-10-05
2	2	2018-10-10
3	3	2018-09-15

```
CREATE TABLE Sales (
    SaleID INT PRIMARY KEY,
    SalesID INT,
    ShopID INT,
    ItemID INT,
    Quantity INT,
    UnitPrice DECIMAL(10, 2),
    FOREIGN KEY (Salesid) REFERENCES SalesDate(Salesid),
    FOREIGN KEY (ShopID) REFERENCES Shops(ShopID),
    FOREIGN KEY (ItemID) REFERENCES Items(ItemID)
);
```

```
INSERT INTO Sales (SaleID, SalesiD, 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);
```



	SaleID	SalesiD	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
9	9	3	3	1	1400	280.00
10	10	3	3	2	1960	420.00
11	11	3	3	3	840	140.00
12	12	3	1	1	150	10.00
13	13	3	1	2	250	15.00
14	14	3	1	4	200	10.00

```
CREATE TABLE units(unitid int primary key,unitname varchar(20))
INSERT INTO units VALUES(1,'piece'),(2,'boxpack')
select * from units
```

	unitid	unitname
1	1	piece
2	2	boxpack

1.2

```

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

```

	ItemName	Revenue
1	KitKat	355800.00

```

1.3 SELECT top 1 I.ItemName, SUM(S.Quantity) AS totalquan
FROM Sales S JOIN SalesDate SD ON S.SalesID = SD.SalesID JOIN Items I ON S.ItemID =
I.ItemID
    JOIN Shops SH ON S.ShopID = SH.ShopID
WHERE MONTH(SD.SalesDate) = 10 AND SH.ShopName = 'Amal Stores'
GROUP BY I.ItemName
ORDER BY TotalQuan DESC

```

150 %

Results		Messages
	ItemName	totalquan
1	KitKat	200

1.4

```
SELECT I.ItemName,SUM(S.Quantity * S.UnitPrice) AS Revenue
FROM Sales S JOIN SalesDate SD ON S.SalesID = SD.Salesid JOIN Items I ON S.ItemID =
I.ItemID
WHERE month(SD.SalesDate) = 10
GROUP BY I.ItemName
HAVING SUM(S.Quantity * S.UnitPrice) > 10000
ORDER BY Revenue DESC;
```

150 %

Results		Messages
	ItemName	Revenue
1	KitKat	355800.00
2	Munch	158300.00
3	MilkyBar	157050.00
4	Bar-One	79400.00

```
1.5 SELECT top 1 SH.ShopName, SUM(S.Quantity * S.UnitPrice) AS Revenue
FROM
    Sales S JOIN SalesDate SD ON S.SalesID = SD.SalesID
    JOIN Shops SH ON S.ShopID = SH.ShopID
WHERE MONTH(SD.SalesDate) = 10
GROUP BY SH.ShopName
ORDER BY Revenue DESC
```

150 % ▾



Results



Messages

	ShopName	Revenue
1	Jyothi Stores	744800.00