NAVYA BABY- PL 2128
FIRST FOUNDATION MACHINE SET 1

1.1

```
create table Items(
itemId int primary key,
Item varchar(20)
);

insert into items values(1,'Bar One');
insert into items values(2,'kitkat');
insert into items values(3,'milky bar');
insert into items values(4,'Munch');

create table shop(
shopid int primary key,
shopname varchar(20)
);

insert into shop values(1,'Amal stores')
insert into shop values(2,'Jyothi stores')
insert into shop values(3,'Indira stores')

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),
   Foreign key (ShopID) references Shop (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 items
select * from shop
select * from SaleDates
```

	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

	itemId	Item
1	1	Bar One
2	2	kitkat
3	3	milky b...
4	4	Munch

	shopid	shopname
1	1	Amal stores
2	2	Jyothi stores
3	3	Indira stores

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

1.2

```
select top 1 I.item,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.item
Order by Revenue desc
```

	item	Revenue
1	kitkat	355800.00

1.3

```
select top 1 i.item,sum(s.quantity) as total from sales s
join items i
on i.itemid=s.itemid
join shop ss
on ss.shopid=s.shopid
join SaleDates sd
on sd.saledateid=s.saledateid
where month(sd.saledate)=10 and ss.shopname='Amal stores'
group by i.item
order by total desc
```

	item	total
1	kitkat	200

1.4

```
select i.Item, 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.Item
having sum(S.Quantity * S.UnitPrice) > 10000
order by Revenue desc
```

	Item	Revenue
1	kitkat	355800.00
2	Munch	158300.00
3	milky bar	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 saledates sd
on s.saledateid=sd.SaleDateid
join shop sh
on s.shopid=sh.shopid
where month(sd.saledate)=10
group by sh.shopname
order by revenue desc
```

	shopname	Revenue
1	Jyothi stores	744800.00