

```
create database ShopOne;
```

```
use ShopOne;
```

```
create table proucts1(
```

```
ProductID varchar(4)Primary key check(ProductID like 'P[0-9][0-9][0-9]'),
```

```
ProductName varchar(50)not null,
```

```
Manufracture varchar(50),
```

```
Origin varchar(50)check(Origin in('Local','Foreign')),
```

```
price money check(price>=0),
```

```
QuantityInHand int check(QuantityInHand>=0)
```

```
);
```

```
insert into proucts1(ProductID,ProductName,Manufracture,Origin,price,QuantityInHand)
```

```
values('P001','Mobile','Samsung','Local',20000,2);
```

```
insert into proucts1(ProductID,ProductName,Manufracture,Origin,price,QuantityInHand)
```

```
values('P002','Laptop','HP','Foreign',50000,5);
```

```
insert into proucts1(ProductID,ProductName,Manufracture,Origin,price,QuantityInHand)
```

```
values('P003','Computer','Dell','Local',60000,3);
```

```
create table Customers1(
```

```
CustomerID varchar(4)primary key check(CustomerID like 'C[0-9][0-9][0-9]'),
```

```
First_Name varchar(50)not null,
```

```
Last_Name varchar(50)not null,
```

```
City varchar(50) default 'Dhaka',
```

```
Total_Sell_Quantity int check(Total_Sell_Quantity>=0)
```

```
);
```

```
insert into Customers1(CustomerID,First_Name,Last_Name>Total_Sell_Quantity)
values('C001','Nuronobi','Islam',2);

insert into Customers1(CustomerID,First_Name,Last_Name>Total_Sell_Quantity)
values('C002','Nishat','Mahmud',3);

insert into Customers1(CustomerID,First_Name,Last_Name>Total_Sell_Quantity)
values('C003','Nayem','Khan',1);
```

```
Create table Tranjections1(
Tranjection_Id varchar(4)primary key check(Tranjection_Id like 'T[0-9][0-9][0-9]'),
Transaction_Date date default getdate(),
Customer_ID varchar(4)references Customers1(CustomerID),
Product_ID varchar(4) references proucts1(ProductID),
Quantity_Sould int check(Quantity_Sould>0)
);
```

```
create procedure Insert_Into_Tranjection
```

```
@Tranjection_Id varchar(4),@Customer_ID varchar(4),@ProductID varchar(4),@Quantity_Sould
int
```

```
as
```

```
begin
```

```
declare @QuantityInHand int;
```

```
declare @price money;
```

```
declare @paidAmount money;
```

```
declare @amount varchar(20);
```

```

select @QuantityInHand=QuantityInHand from proucts1
select @price=price from proucts1 where @ProductID=ProductID
if @Quantity_Sould<=@QuantityInHand
begin
insert into
Tranjections1(Tranjection_Id,Customer_ID,Product_ID,Quantity_Sould)
values (@Tranjection_Id,@Customer_ID,@ProductID,@Quantity_Sould)
set @paidAmount=(@Quantity_Sould*@price)
set @amount=@paidAmount;
print ('Paided amount: ')+@amount
end
else
print('Item is not available')
end
execute Insert_Into_Tranjection 'T001','C001','P001',1;

select * from proucts1;
select * from Customers1;
select * from Tranjections1;

```

create trigger Update_Table on Tranjections1 for insert

as

begin

```

declare @Quantity_Sould int
declare @Customer_ID char(4)
declare @Product_ID char(4)

```

```
select @Quantity_Sould=Quantity_Sould, @Customer_ID =Customer_ID  
,@Product_ID=Product_ID from inserted
```

```
update proucts1
```

```
set QuantityInHand=QuantityInHand-@Quantity_Sould where ProductID=@Product_ID
```

```
update Customers1
```

```
set Total_Sell_Quantity=Total_Sell_Quantity+@Quantity_Sould where CustomerID  
=@Customer_ID
```

```
end
```