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-- Strong entities
create table Category
(
    CategoryID char(20) not null,
    Category_Name varchar(20) not null,
    constraint Category_PK primary key(CategoryID)
);

create table Owner
(
    OwnerID char(20) not null,
    Owner_FName varchar(20) not null,
    Owner_LName varchar(20) not null,
    Owner_UserName varchar(20) not null,
    Owner_Password varchar(20) not null,
    constraint Owner_PK primary key(OwnerID)
);

create table Customer
(
    CustomerID char(20) not null,
    C_FirstName varchar(20) not null,
    C_LastName varchar(20) not null,
    C_PhoneNum int not null,
    C_MailID varchar(20) not null,
    C_City varchar(20) not null,
    C_Country varchar(20) not null,
    C_Postal_Code int not null,
    C_Address varchar(20) not null,
    C_UserName varchar(20) not null,
    C_Password varchar(20) not null,
    constraint Customer_PK primary key(CustomerID)
);

-- Weak Entities
create table Billing_Info
(
    Credit_Card_Num int not null,
    CustomerID char(20) not null,
    CC_Valid_Through date not null,
    CC_Pin int not null,
    constraint Credit_Card_Num_PK primary key(Credit_Card_Num),
    constraint Billing_Info_FK_CustomerID foreign key(CustomerID) references
Customer(CustomerID)
);

create table Supplier
(
    SupplierID char(20) not null,
    OwnerID char(20) not null,
    ProductID char(20) not null,
    S_FirstName varchar(20) not null,
    S_LastName varchar(20) not null,
    S_Phone_Num int not null,
    S_MailID varchar(30) not null,
    constraint Supplier_PK primary key(SupplierID),
    constraint Supplier_FK_OwnerID foreign key(OwnerID) references Owner(OwnerID),
    constraint Supplier_FK_ProductID foreign key(ProductID) references Prod(ProductID)
);

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);

create table Prod
(
    ProductID char(20) not null,
    CategoryID char(20) not null,
    Product_Name varchar(40) not null,
    Product_Description varchar(80),
    Unit_Price int not null,
    constraint Product_PK primary key(ProductID),
    constraint Product_FK_CategoryID foreign key(CategoryID) references
Category(CategoryID)
);

create table Cart
(
    CartID char(20) not null,
    CustomerID char(20) not null,
    ProductID char(20) not null,
    Total_Price int not null,
    Num_of_Products int not null,
    constraint Cart_PK primary key(CartID),
    constraint Cart_FK_CustomerID foreign key(CustomerID) references
Customer(CustomerID),
    constraint Cart_FK_ProductID foreign key(ProductID) references Prod(ProductID)
);

drop trigger CART_TRIGGER;

CREATE TRIGGER
CART_TRIGGER
ON
Prod
FOR INSERT,UPDATE AS
IF @@ROWCOUNT>=1
BEGIN
UPDATE Cart
SET Total_Price= Cost.price
FROM(
SELECT p.ProductID, SUM(c.Num_of_Products * p.Unit_Price) AS 'price'
FROM inserted p
INNER JOIN Cart c ON p.ProductID=c.ProductID
GROUP BY p.ProductID) AS Cost
WHERE Cart.ProductID=Cost.ProductID
END;

SELECT * FROM Cart

create table Ord
(
    OrderID char(20) not null,
    CustomerID char(20) not null,
    CartID char(20) not null,
    Order_Date date not null,
    constraint Order_PK primary key(OrderID),
    constraint Order_FK_CustomerID foreign key(CustomerID) references
Customer(CustomerID),
    constraint Order_FK_CartID foreign key(CartID) references Cart(CartID)

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);
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insert into Category(CategoryID, Category_Name)
values(101, 'Fashion');
insert into Category(CategoryID, Category_Name)
values(102, 'Home & Decor');
insert into Category(CategoryID, Category_Name)
values(103, 'Accesories');
insert into Category(CategoryID, Category_Name)
values(104, 'Electronics');
insert into Category(CategoryID, Category_Name)
values(105, 'Groceries');
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insert into Prod(ProductID, SupplierID, CategoryID, Product_Name, Product_Description,
Unit_Price)
values(10, 1001, 101, 'Clothes', 'Mens wear', 12.48);
insert into Prod(ProductID, SupplierID, CategoryID, Product_Name, Product_Description,
Unit_Price)
values(11, 1002, 102, 'Home & Decor', 'Frames', 37.21);
insert into Prod(ProductID, SupplierID, CategoryID, Product_Name, Product_Description,
Unit_Price)
values(12, 1003, 103, 'Accesories', 'Belt', 22.21);
insert into Prod(ProductID, SupplierID, CategoryID, Product_Name, Product_Description,
Unit_Price)
values(13, 1004, 104, 'Electronics', 'Mobile Phone', 422.21);
insert into Prod(ProductID, SupplierID, CategoryID, Product_Name, Product_Description,
Unit_Price)
values(14, 1005, 105, 'Groceries', 'Sugar', 3.25);
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insert into Owner(OwnerID, Owner_FName, Owner_LName, Owner_UserName, Owner_Password)
values(1, 'Vaibhav', 'Nigam', 'vnigam', 'vnigam');
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```
insert into Customer(CustomerID, C_FirstName, C_LastName, C_PhoneNum, C_MailID, C_City,
C_Country, C_Postal_Code, C_Address, C_UserName, C_Password)
values(01, 'Ankita', 'Nagar', 3154671, 'anagar@gmail.com', 'Mumbai', 'India', '208025',
'1021 Lancaster Ave', 'anagar', 'anagar');
insert into Customer(CustomerID, C_FirstName, C_LastName, C_PhoneNum, C_MailID, C_City,
C_Country, C_Postal_Code, C_Address, C_UserName, C_Password)
values(02, 'Shubham', 'Bhatia', 3154637, 'shbhatia@gmail.com', 'Syracuse', 'USA',
'10301', '103 Victoria Place', 'shbhatia', 'shbhatia');
insert into Customer(CustomerID, C_FirstName, C_LastName, C_PhoneNum, C_MailID, C_City,
C_Country, C_Postal_Code, C_Address, C_UserName, C_Password)
values(03, 'Lakshay', 'Swani', 3151234, 'lswani@gmail.com', 'Noida', 'India', '201301',
'Sector 36', 'lswani', 'lswani');
insert into Customer(CustomerID, C_FirstName, C_LastName, C_PhoneNum, C_MailID, C_City,
C_Country, C_Postal_Code, C_Address, C_UserName, C_Password)
values(04, 'Dipti', 'Sikka', 3154321, 'dsikka@gmail.com', 'Delhi', 'India', '201304',
'NCC', 'dsikka', 'dsikka');
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insert into Billing_Info(Credit_Card_Num, CustomerID, CC_Valid_Through, CC_Pin)
values(998877, 01, '2020-08-22', 693);
insert into Billing_Info(Credit_Card_Num, CustomerID, CC_Valid_Through, CC_Pin)
values(665544, 02, '2022-02-13', 847);
```

```
insert into Supplier(SupplierID, OwnerID, ProductID, S_FirstName, S_LastName,
S_Phone_Num, S_MailID)
values(20, 1, 10, 'Rmoil', 'Godha', 3154480, 'rgodha@gmail.com');
```

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insert into Supplier(SupplierID, OwnerID, ProductID, S_FirstName, S_LastName,
S_Phone_Num, S_MailID)
values(21, 1, 11, 'Pranay', 'Lulla', 3154648, 'plulla@gmail.com');
insert into Supplier(SupplierID, OwnerID, ProductID, S_FirstName, S_LastName,
S_Phone_Num, S_MailID)
values(22, 1, 12, 'Tushar', 'Sharma', 312675, 'tsharma@gmail.com');

insert into Cart(CartID, CustomerID, ProductID, Total_Price, Num_of_Products)
values(201, 01, 10, 166.21, 7);
insert into Cart(CartID, CustomerID, ProductID, Total_Price, Num_of_Products)
values(202, 02, 11, 57.83, 3);
insert into Cart(CartID, CustomerID, ProductID, Total_Price, Num_of_Products)
values(203, 03, 12, 49.2, 5);
insert into Cart(CartID, CustomerID, ProductID, Total_Price, Num_of_Products)
values(204, 04, 13, 62.1, 8);

insert into Ord(OrderID, CustomerID, CartID, Order_Date)
values(301, 01, 201, '2018-04-15');
insert into Ord(OrderID, CustomerID, CartID, Order_Date)
values(302, 02, 202, '2018-11-12');
```