

## A - Create Table Distribution ERD for **Company Z** description:

Company Z handles **Orders** made from **Buyers** to **Sellers** for various services.

Each Seller has several service-categories and their own price-list.

Buyers can use **Coupons** for payments. Company Z receives **Tenth Percent Commission** for each Completed Order.

### Tables: Columns:

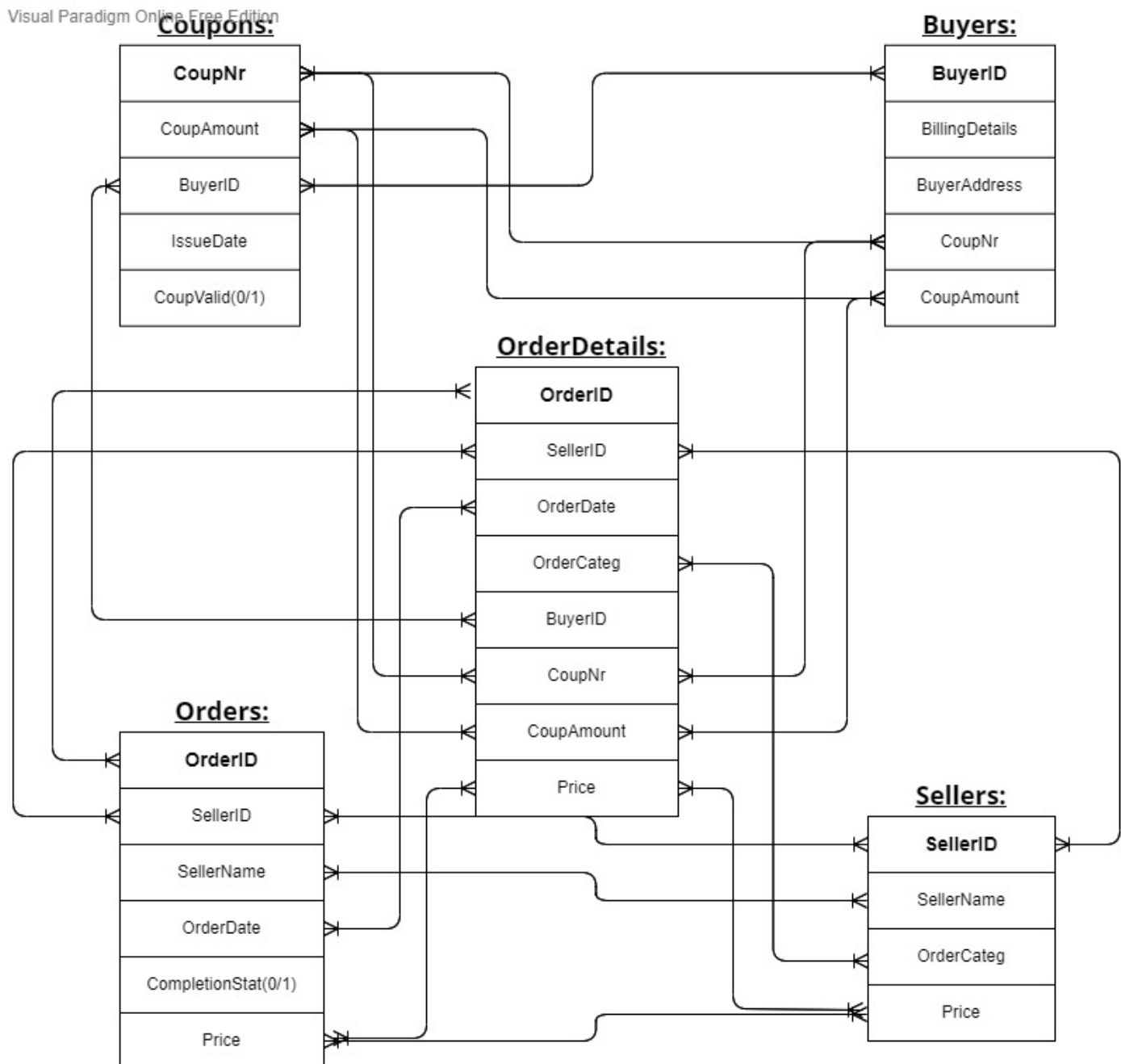
Coupons: couponNr ; couponAmount ; BuyerID ; IssueDate ; CoupValid(0/1)

Buyers: BuyerID ; BillingDetails ; BuyerAddress ; CoupID ; CoupAmount

Sellers: SellerID ; SellerName ; OrderCategory ; Price

Orders: OrderID ; SellerID ; SellerName ; OrderDate ; CompletionDate ;  
CompletionStatus(0/1) ; Price

OrderDetails: OrderID ; SellerID ; OrderDate ; OrderCategory ; BuyerID ;  
CouponNr ; CouponAmount ; Price



## B - Create Single SQL Query to present the following parameters:

For Specified Date Range , present in each row:

- Seller ID
- Seller Name
- Total Orders Before Coupons Discount
- Total Orders After Coupons Discount
- Total Revenue for Company Z
- Total Orders Required by Seller

Present All Sellers , include those without orders

```
SELECT t1.SellerID, t1.SellerName, t1.ttlprice, (t1.ttlprice - t1.ttlcoup) as 'ttlinc' ,
      t1.ttlrev , t1.ttlreq

FROM (  SELECT s.SellerID , s.SellerName , SUM(od.Price) as 'ttlprice' ,
            SUM(od.CouponAmount) as 'ttlcoup' ,
            SUM( (od.Price - od.CouponAmount) * 0.1 * o.CompletionStatus) as 'ttlrev' ,
            SUM( (1- o.CompletionStatus) * (od.Price - od.CouponAmount) as 'ttlreq'

        FROM Sellers s LEFT JOIN Orders o ON s.SellerID = o.SellerID
        LEFT JOIN OrderDetails od ON o.OrderID = od.OrderID
        LEFT JOIN Coupons c ON od.CouponNr = c.CouponNr
        WHERE Month(o.OrderDate) = 02 -- [for February]

        GROUP BY s.SellerID, s.SellerName
      ) t1
```

■ קוד מוכר: SellerID

■ שם מוכר: SellerName

■ -- [פילטר חודש או טווח תאריכים לפי ת.הזמנה] WHERE

■ סה"כ הזמנות לפני הנחת קופון: TTLprice

■ סה"כ הזמנות לאחר הנחת קופון: TTLincome

■ סה"כ הכנסות חברת פייפר: TTLrevenue

■ סה"כ התחייבות למוכר (סכום הזמנות שלא הושלמו): TTLrequired