

Week III

Chapter 10 - How to design a data structure

1. Identify the data elements
2. Subdivide each element into its smallest useful components
3. Identify the tables and assign columns (fields)
4. identify the primary and foreign keys
5. Review whether the data structure is normalized
6. identify the indexes

HW Review

IPO - Input Process Output

Input	Output	Calculated Process
See values Company Name		
See values Send To		
See values Ship To		
Comments		
Invoice Number - unique to MyCompany created by MyCompany		
P.O Number		Sales Tax
MyCompany SalesPerson		Subtotal
Customer Requisitioner Buyer Name		
Shipped Via is Selected		FOB Shipping & Handling Fee
Terms is Selected		
Quantity, Description, Unit Price		Total

Actors - something that will give or get.	
Business - MyCompany Name	
Seller (producer) My Company: name	salesperon
Buyer (customer) Buyer Company name	

Actors - something that will give or get.	
Product/Service	
Invoice Number	
MyCompany - Business Office Sales	Manager

Tables for HW

Customers	Customer Buyer Name	MyCompany	Customer Shipped To	Product/Service	Invoice	
see values to box	PK Buyer	see values Company name	See values shipped to	PK Prod/Service Int Desc char Unit Price float	Comments,	
PK Customer: Int	Buyer Name		PK Shipped To: Int		PK Invoice Number	
			FK PH Customer: int		P.O Number	
					Shipped Via	
					Terms = Invoice 0, 30, 60, 90	
					InvoiceDate	
					FK PK MyCompany	
					FK Shipped To	
					FK PK SalesPerson	