

(SalesOrderNo, Date, CustomerNo, CustomerName, CustomerAdd, ClerkNo, ClerkName, ItemNo, Description, Qty, UnitPrice)

Sales Order								
Fiction Company 202 N. Main Mahattan, KS 66502			CustomerNumber: 1001 Customer Name: ABC Company Customer Address: 100 Points Manhattan, KS 66502					
Sales Order Number: 405 Sales Order Date: 2/1/2000 Clerk Number: 210 Clerk Name: Martin Lawrence								
<b>Item Ordered</b> <b>Description</b> <b>Quantity</b> <b>Unit Price</b> <b>Total</b>								
800    widget small 801    tingmajigger 805    thingibob								
40    60.00    2,400.00 20    20.00    400.00 10    100.00    1,000.00								
<b>Order Total</b> 3,800.00								

OrdNo	Order Date	ClerkNo	Clerk Name	CustNo	CustName	CustAdd	ItemOrdered	Desc	Qty	UnitPrice
405	1/2/2025	210	Martin	1001	ABC	fdgdfgdf	800	dddd	40	60
				801	fffff		801	fffff	20	20
				805	88888		805	88888	10	100
406	1/2/2025	210	Martin	1002	XYZ	Ikikikkkl	800	dddd	40	60
				809	aaa		809	aaa	5	60
407	36557	211	Aliaa	1001	ABC	fdgdfgdf	807	qqq	10	20
				801	fffff		801	fffff	20	20
				809	aaa		809	aaa	5	20

Repeating Group

1

Repeating Group M

1NF no multivalue Repeating group

order

①	order	[ordNo   Date   clerkNo   ClerkName   custNo ]	cname   Add
②	order Item	[ordNo   ItemNo   desc   Qty   UnitPrice]	

ItemNo → desc, UnitPrice

ordNo, ItemNo → Qty

2NF no partial Key dependency-

order

ordNo   Date   clerkNo   ClerkName   custNo   cname   Add
ordNo   Date   clerkNo   ClerkName   custNo   cname   Add

item

ItemNo   Desc   UnitPr.
ItemNo   Desc   UnitPr.

order item

ordNo   ItemNo   Qty
ordNo   ItemNo   Qty

3NF no transitive Depend.

item

ItemNo   Desc   UnitPr.
ItemNo   Desc   UnitPr.

order item

ordNo   ItemNo   Qty
ordNo   ItemNo   Qty

order

ordNo   Date   clerkNo   custNo
ordNo   Date   clerkNo   custNo

clerk

ClerkNo   Clerk Name
ClerkNo   Clerk Name

cust

CustNo   name   add
CustNo   name   add

