

Normalisation (RDA) Exercise 1

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Identify the data in the product sales report (only) and normalise it to 3rd Normal Form (3NF), showing each of the intermediate stages. If you have time left, try drawing a bottom up data model (ERDs) for your solution.

TopDog Ltd

TopDog Ltd is a company which allows discount prices to its customers. There are four discount prices for each product, and each customer that is entitled to discount prices will be allocated a single discount code (either A, B, C or D). A customer with an "A" discount code, for example, will be charged the "A" Price for all the products they order. Thus before pricing a product ordered by a customer TopDog checks the customer's discount code so that the correct discount can be given.

Product Sales Report					
TopDog Ltd, Topdog Lane, Smallville SM3 8FG					
PRODUCT NO: 01023		DESCRIPTION: Doggits			
Invoice Number	Invoice Date	Customer Number	Name	Qty	Price
128321	01/01/23	2637	Bloggs	200	8000
128375	02/01/23	4111	Smith	100	4300
128429	10/04/23	5517	Khalid	320	12800
128666	15/06/23	1030	Buggins	30	1380

Hint: To find out what price means you might have to refer to the invoice on the next page and cross reference.

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Invoice

TopDog Ltd, Topdog Lane, Smallville SM3 8FG

INVOICE NO: 128321

DATE: 01/01/23

CUSTOMER NO: 2637

CUSTOMER NAME AND ADDRESS:

Bill Bloggs & Co
Tatty Little Hut
Railway Arch
Grimtown

Product Number	Description	Std Price	Disc Code	Disc Price	Qty	Price
01002	Whatnot	2637	A	900	10	9000
01023	Doggit	4111	A	40	200	8000
03376	Oojit	5517	A	8	200	1600
02173	Thingy	1030	A	12	300	3600
01552	Doofer	1100	A	100	100	10000