

## Normalisation (RDA) Exercise 2

If you have time left, try drawing a bottom up data model (ERDs) for your solutions to exercises 1 and 2 and then merging (either the normalisations or the bottom up data models) to produce a bottom up data model encompassing both the product sales report and the invoice data.

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.

|   |             |           |           |            |     |       |
|---|-------------|-----------|-----------|------------|-----|-------|
| <div>Invoice</div> <div>TopDog Ltd, Topdog Lane, Smallville SM3 8FG</div>   |             |           |           |            |     |       |
| INVOICE NO: 128321      DATE: 01/01/23  |             |           |           |            |     |       |
| CUSTOMER NO: 2637      CUSTOMER NAME AND ADDRESS:<br>Bill Bloggs & Co<br>Tatty Little Hut<br>Railway Arch<br>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 |
|   |             |           |           |            |     |       |

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For reference only:

| <b>Product Sales Report</b>                 |              |                      |         |     |       |
|---|--------------|----------------------|---------|-----|-------|
| 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  |
|   |              |                      |         |     |       |