



Let's Get Sort-of-Real: Dummy Data to Test Techniques and Algorithms

User Guide

dunnhumby

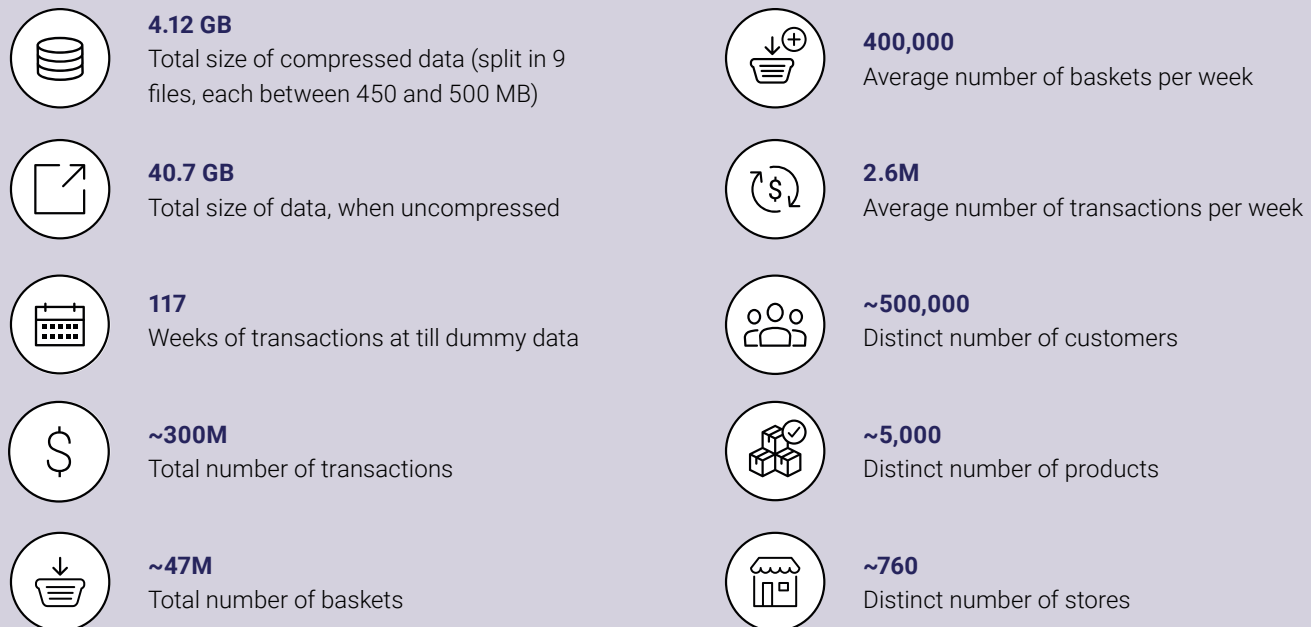
LET'S GET SORT-OF-REAL: DUMMY DATA TO TEST TECHNIQUES AND ALGORITHMS

This dataset includes dummy data(*) of transactions at till, spanning over a period of 117 weeks (two years and a quarter). The dataset includes both transactions with a loyalty card associated and transactions made without a loyalty card.

This dataset is made available to enable data scientists to experiment algorithms and techniques on top of sort-of-real data with a considerable size, which albeit not being real still contain real patterns and correlations. We've made a significant effort to replicate the typical patterns found in real in-store sales data to enable curious data scientists to test their techniques and algorithms using considerably expansive, sort-of-real data.

Customers' and baskets' information is also included (such as basket size, basket price sensitivity, basket dominant mission, customer price sensitivity, customer lifestage) which makes the data interesting for analysis to be run on.

BY THE NUMBERS



SAMPLES FROM THE FULL DATASET

In order to give the option to work with smaller sets of data, some samples have been created and made available:

- A sample of 2,000 baskets randomly selected over a period of two weeks
- A sample of all transactions (for the whole 117 weeks period) for a randomly selected sample of 5,000 customers. A randomly selected sample, with a consistent size, of baskets without loyalty card has been added.
- A sample of all transactions (for the whole 117 weeks period) for a randomly selected sample of 50,000 customers. A randomly selected sample, with a consistent size, of baskets without loyalty card has been added.
- Also each of the nine zip files the full dataset is split into can be used as an independent dataset which includes all baskets in a period of 13 weeks (a quarter)

LET'S GET SORT-OF-REAL: DATASET DETAILS

All datasets (the full one and also the samples created from it) have been split in weekly files to be more manageable and to give more flexibility when loading the data.

Each row in the files corresponds to one unique product in a basket (e.g. if there are three occurrences of the same product in a basket, the file has one row for the product in that basket, with quantity equal to three). Each file has the following structure:

Column name	Description	Type	Sample values
shop_week	Identifies the week of the basket	Char	Format is YYYYWW where the first 4 characters identify the fiscal year and the other two characters identify the specific week within the year (e.g. 200735). Being the fiscal year, the first week doesn't start in January. (See time.csv file for start/end dates of each week)
shop_date	Date when shopping has been made. Date is specified in the yyyyymmdd format	Char	20060413, 20060412
shop_weekday	Identifies the day of the week	Num	1=Sunday, 2=Monday, ..., 7=Saturday
shop_hour	Hour slot of the shopping	Num	0=00:00-00:59, 1=01:00-01:59, 23=23:00-23:59
Quantity Integer number	Number of items of the same product bought in this basket	Num	
spend	Spend associated to the items bought	Num	Number with two decimal digits
prod_code	Product Code	Char	PRD0900001, PRD0900003
prod_code_10	Product Hierarchy Level 10 Code	Char	CL00072, CL00144
prod_code_20	Product Hierarchy Level 20 Code	Char	DEP00021, DEP00051
prod_code_30	Product Hierarchy Level 30 Code	Char	G00007, G00015
prod_code_40	Product Hierarchy Level 40 Code	Char	D00002, D00003
cust_code	Customer Code	Char	CUST0000001624, CUST0000001912
cust_price_sensitivity	Customer's Price Sensitivity	Char	LA=Less Affluent, MM=Mid Market, UM=Up Market, XX=unclassified
cust_lifestage	Customer's Lifestage	Char	YA=Young Adults, OA=Older Adults, YF=Young Families, OF=Older Families, PE=Pensioners, OT=Other, XX=unclassified
basket_id	Basket ID. All items in a basket share the same basket_id value.	Num	994100100000020, 994100100000344
basket_size	Basket size	Char	L=Large, M=Medium, S=Small
basket_price_sensitivity	Basket price sensitivity	Char	LA=Less Affluent, MM=Mid Market, UM=Up Market, XX=unclassified
basket_type	Basket type	Char	Small Shop, Top Up, Full Shop, XX
basket_dominant_mission	Shopping dominant mission	Char	Fresh, Grocery, Mixed, Non Food, XX
store_code	Store Code	Char	STORE00001, STORE00002
store_format	Format of the Store	Char	LS, MS, SS, XLS
store_region	Region the store belongs to	Char	E02, W01, E01, N03

The TIME Table

This table contains information regarding the time periods (weeks). Each row in the file corresponds to one week. Please note that the periods are referring to fiscal years. This means, for instance, that the first week of the year doesn't fall in January.

The file has the following structure:

Column name	Description	Type	Sample values
shop_week	Week code	Char	Format is YYYYWW where the first 4 characters identify the year and the other two characters identify the specific week within the fiscal year (e.g. 200735)
date_from	Start date for the week. Dates are specified in yyyy-mdd format	Char	20060413, 20060412
date_to	End date for the week. Dates are specified in yyyy-mdd format	Char	20060413, 20060412



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CONTACT INFORMATION

For general questions about dunnhumby or the Source Files programme, or for technical questions regarding the use of this dataset, please contact:

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