train.csv: Train data containing the coupons offered to the given customers under the 18 campaigns

Variable	Definition
id	Unique id for coupon customer impression
campaign_id	Unique id for a discount campaign
coupon_id	Unique id for a discount coupon
customer_id	Unique id for a customer
redemption statu	us (target) (0 - Coupon not redeemed, 1 - Coupon redeemed)

campaign_data.csv: Campaign information for each of the 28 campaigns

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Variable	Definition	
campaign_id	Unique id for a discount campaign	
campaign_type	Anonymised Campaign Type (X/Y)	
start_date	Campaign Start Date	
end_date	Campaign End Date	

coupon_item_mapping.csv: Mapping of coupon and items valid for discount under that coupon

Variable Definition	
coupon_id	Unique id for a discount coupon (no order)
item_id	Unique id for items for which given coupon is valid (no order)

customer_demographics.csv: Customer demographic information for some customers

Variable	Definition
customer_id	Unique id for a customer
age_range	Age range of customer family in years
marital_status	Married/Single
rented	0 - not rented accommodation, 1 - rented accommodation
family_size	Number of family members
no_of_children	Number of children in the family
income_bracket	Label Encoded Income Bracket (Higher income corresponds to higher number)

customer_transaction_data.csv: Transaction data for all customers for duration of campaigns in the
train data

Variable	Definition
date	Date of Transaction
customer_id	Unique id for a customer
item_id	Unique id for item
quantity	quantity of item bought
selling_price	Sales value of the transaction
other_discount	Discount from other sources such as manufacturer coupon/loyalty card
coupon_discount	Discount availed from retailer coupon

item_data.csv: Item information for each item sold by the retailer

Variable	Definition
item_id	Unique id for item
brand	Unique id for item brand
brand_typeBrand Type (local/Established)	
category	Item Category

test.csv: Contains the coupon customer combination for which redemption status is to be predicted

Variable	Definition
id	Unique id for coupon customer impression
campaign_id	Unique id for a discount campaign
coupon_id	Unique id for a discount coupon
customer_id	Unique id for a customer

To summarise the entire process:

- Customers receive coupons under various campaigns and may choose to redeem it.
- They can redeem the given coupon for any valid product for that coupon as per coupon item mapping within the duration between campaign start date and end date
- Next, the customer will redeem the coupon for an item at the retailer store and that will reflect in the transaction table in the column coupon_discount.