

# Multivariate exploration of the questionnaire and typology of the surveyed people

The results are provided by the  
EnQuireR package

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# 1 Quick overview of the questionnaire

The analysis was performed on 100 individuals described by 49 variables:

- `buy.cheese` ( `hard discount` , `hypermarket` , `market` , `nowhere` , `specialized stores` , `supermarket` )
- `buy.white.meat` ( `hard discount` , `hypermarket` , `market` , `nowhere` , `specialized stores` , `supermarket` )
- `buy.red.meat` ( `hard discount` , `hypermarket` , `market` , `nowhere` , `specialized stores` , `supermarket` )
- `buy.fish` ( `hard discount` , `hypermarket` , `market` , `nowhere` , `specialized stores` , `supermarket` )
- `buy.alcoholic.drinks` ( `hard discount` , `hypermarket` , `nowhere` , `specialized stores` , `supermarket` )
- `buy.soft.drinks` ( `hard discount` , `hypermarket` , `nowhere` , `specialized shops` , `supermarket` )
- `buy.chocolate` ( `hard discount` , `hypermarket` , `nowhere` , `specialized shops` , `supermarket` )
- `buy.fruit.and.vegetables` ( `hard discount` , `hypermarket` , `market` , `specialized shops` , `supermarket` )
- `buy.eggs` ( `hard discount` , `hypermarket` , `market` , `nowhere` , `specialized shops` , `supermarket` )
- `buy.dairy.products` ( `hard discount` , `hypermarket` , `market` , `nowhere` , `specialized shops` , `supermarket` )
- `buy.coffee.tea` ( `hard discount` , `hypermarket` , `nowhere` , `specialized shops` , `supermarket` )
- `label.decisive.criterion` ( `no` , `yes` )
- `recognize.label.AB` ( `no` , `yes` )
- `recognize.label.AOC` ( `no` , `yes` )
- `recognize.label.AOP` ( `no` , `yes` )
- `recognize.label.IGP` ( `no` , `yes` )
- `recognize.label.LR` ( `no` , `yes` )
- `recognize.no.label` ( `no` , `yes` )
- `buying.labelled.cheese` ( `no` , `yes` )
- `buying.labelled.white.meat` ( `no` , `yes` )
- `buying.labelled.red.meat` ( `no` , `yes` )
- `buying.labelled.fish` ( `no` , `yes` )
- `buying.labelled.alcoholic.drink` ( `no` , `yes` )
- `buying.labelled.soft.drink` ( `no` , `yes` )
- `buying.labelled.fruits.and.vegetables` ( `no` , `yes` )
- `buying.labelled.chocolate` ( `no` , `yes` )
- `buying.labelled.eggs` ( `no` , `yes` )

- buying.labelled.dairy.products ( no , yes )
- buying.labelled.coffee.tea ( no , yes )
- no.labelled.product ( no , yes )
- label.a.quality.product ( no , yes )
- label.certainty.on.the.origin ( no , yes )
- label.a.specification ( no , yes )
- label.a.lifestyle ( no , yes )
- label.a.preservation.of.the.gastronomy ( no , yes )
- label.local.products ( no , yes )
- label.a.tradition ( no , yes )
- label.a.better.taste ( no , yes )
- price.guarantee.of.quality ( no , yes )
- price.margin.for.the.industrialist ( no , yes )
- price.earnings.for.the.producer ( no , yes )
- price.emphasis.of.the.label ( no , yes )
- price.unjustified.superiority ( no , yes )
- labelled.products.as.part.of.daily.diet ( no , yes )
- labelled.products.as.part.of.reception.of.guests ( no , yes )
- labelled.products.as.part.of.promotional.offers ( no , yes )
- labelled.products.as.part.of.discovery ( no , yes )
- not.buying.labelled.products ( no , yes )
- sex ( man , woman )

Moreover, the dataset contained 0% of missing values.

## 2 Multivariate exploration of the questionnaire

### 2.1 Graphical representations of the questionnaire

The following results are obtained by performing a Multiple Correspondence Analysis (MCA) on the previous 49 variables. This method provides two important graphical displays, a representation of the individuals (surveyed people) and a representation of the categories (answers given by the surveyed people). The first two main axes of variability explain 17.79% of the information contained in the dataset (9.64% for the first factorial axis and 8.16% for the second one). In some cases the analyst may want to introduce supplementary quantitative variables.

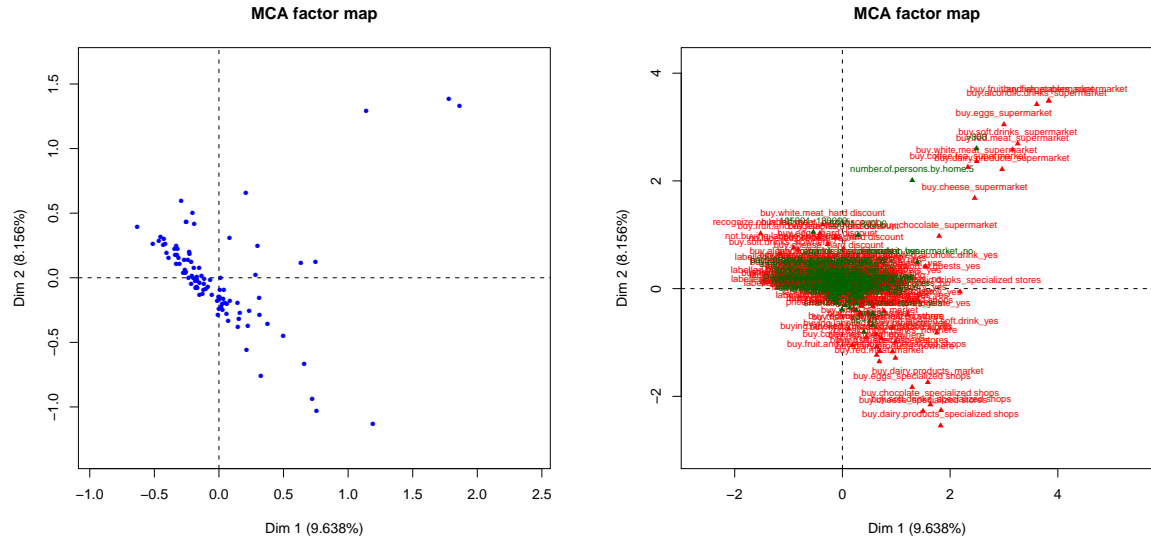


Figure 1: Representations of the individuals and of the categories on axes 1 and 2

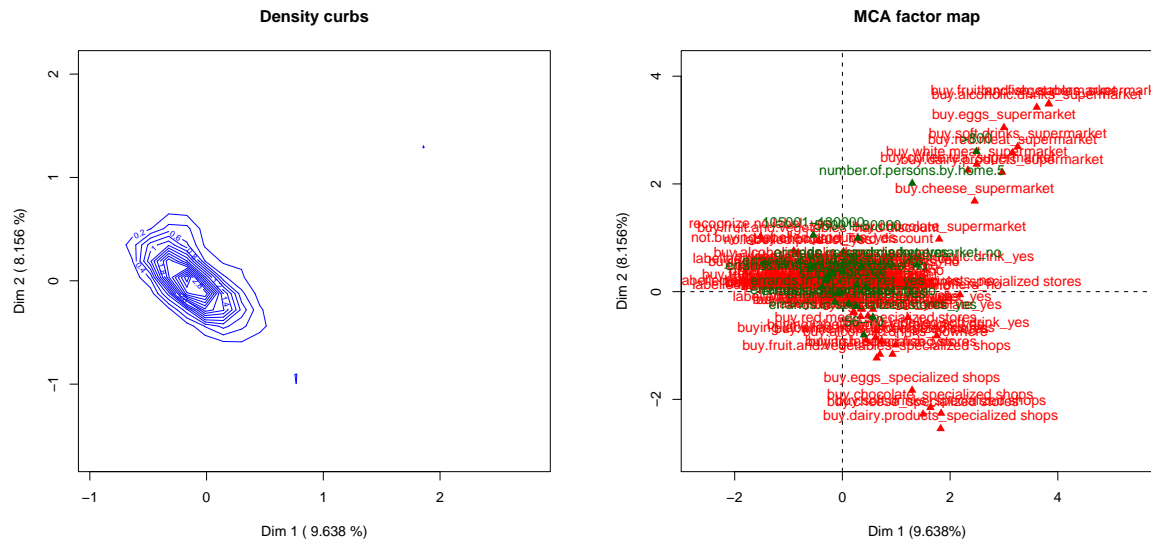


Figure 2: Representation of the individuals using density curbs and enhanced representation of the categories

## 2.2 Highlights on the two principal axes of variability

### 2.2.1 Characterization of the first factorial axis

The most meaningful variables characterizing the first factorial axis are:

- buy.dairy.products
- buy.soft.drinks
- buy.fruit.and.vegetables
- buy.fish
- buy.alcoholic.drinks
- buy.cheese
- buy.eggs
- buy.red.meat
- buy.chocolate
- buy.white.meat
- buy.coffee.tea
- buying.labelled.alcoholic.drink
- buying.labelled.soft.drink
- buying.labelled.cheese
- no.labelled.product
- labelled.products.as.part.of.daily.diet
- buying.labelled.chocolate
- not.buying.labelled.products
- buying.labelled.eggs
- buying.labelled.dairy.products
- buying.labelled.red.meat
- label.local.products
- label.decisive.criterion
- buying.labelled.coffee.tea
- buying.labelled.fruits.and.vegetables
- price.margin.for.the.industrialist
- labelled.products.as.part.of.reception.of.guests
- label.a.specification
- label.a.preservation.of.the.gastronomy
- buying.labelled.white.meat
- labelled.products.as.part.of.discovery
- label.certainty.on.the.origin

The most meaningful categories characterizing the positive side of the first axis are:

- `buy.fruit.and.vegetables_supermarket`
  - Contribution: 5.2
  - V-Test: 6.71
  - Frequency in the population: 3 %
- `buy.soft.drinks_supermarket`
  - Contribution: 5
  - V-Test: 6.61
  - Frequency in the population: 4 %
- `buy.fish_supermarket`
  - Contribution: 5.2
  - V-Test: 6.71
  - Frequency in the population: 3 %
- `buy.eggs_supermarket`
  - Contribution: 4.24
  - V-Test: 6.09
  - Frequency in the population: 4 %
- `buy.red.meat_supermarket`
  - Contribution: 3.53
  - V-Test: 5.53
  - Frequency in the population: 3 %
- `buy.dairy.products_supermarket`
  - Contribution: 5.18
  - V-Test: 6.77
  - Frequency in the population: 5 %
- `buy.alcoholic.drinks_supermarket`
  - Contribution: 3.07
  - V-Test: 5.13
  - Frequency in the population: 2 %
- `buy.cheese_supermarket`
  - Contribution: 4.27
  - V-Test: 6.17
  - Frequency in the population: 6 %
- `buying.labelled.alcoholic.drink_yes`
  - Contribution: 2.8
  - V-Test: 5.11
  - Frequency in the population: 10 %
- `buy.white.meat_supermarket`
  - Contribution: 2.93
  - V-Test: 5.06

- Frequency in the population: 4 %

**The most meaningful categories characterizing the negative side of the first axis are:**

- **buy.dairy.products\_hypermarket**
  - Contribution: 0.71
  - V-Test: -4.63
  - Frequency in the population: 72 %
- **buy.alcoholic.drinks\_hypermarket**
  - Contribution: 0.48
  - V-Test: -4.72
  - Frequency in the population: 82 %
- **buy.fruit.and.vegetables\_hypermarket**
  - Contribution: 0.94
  - V-Test: -3.83
  - Frequency in the population: 46 %
- **buy.eggs\_hypermarket**
  - Contribution: 0.8
  - V-Test: -4.21
  - Frequency in the population: 62 %
- **buy.dairy.products\_hard discount**
  - Contribution: 0.12
  - V-Test: -1.08
  - Frequency in the population: 16 %
- **buy.red.meat\_hypermarket**
  - Contribution: 1.08
  - V-Test: -5.09
  - Frequency in the population: 65 %
- **buy.fish\_hypermarket**
  - Contribution: 0.7
  - V-Test: -4.95
  - Frequency in the population: 76 %
- **buy.white.meat\_hypermarket**
  - Contribution: 0.95
  - V-Test: -5.15
  - Frequency in the population: 70 %
- **buy.soft.drinks\_hypermarket**
  - Contribution: 0.46
  - V-Test: -3.99
  - Frequency in the population: 76 %
- **buy.alcoholic.drinks\_hard discount**
  - Contribution: 0.12
  - V-Test: -1.05
  - Frequency in the population: 7 %



### 2.2.2 Characterization on the second factorial axis

The most meaningful variables characterizing the second factorial axis are:

- `buy.eggs`
- `buy.fruit.and.vegetables`
- `buy.soft.drinks`
- `buy.dairy.products`
- `buy.fish`
- `buy.red.meat`
- `buy.cheese`
- `buy.white.meat`
- `buying.labelled.fruits.and.vegetables`
- `buy.chocolate`
- `buy.alcoholic.drinks`
- `buying.labelled.dairy.products`
- `buy.coffee.tea`
- `buying.labelled.white.meat`
- `no.labelled.product`
- `label.decisive.criterion`
- `labelled.products.as.part.of.daily.diet`
- `buying.labelled.eggs`
- `buying.labelled.fish`
- `not.buying.labelled.products`
- `label.a.specification`
- `buying.labelled.red.meat`
- `price.earnings.for.the.producer`
- `buying.labelled.cheese`
- `buying.labelled.soft.drink`

The most meaningful categories characterizing the positive side of the second axis are:

- `buy.eggs_supermarket`
  - Contribution: 5.17
  - V-Test: 6.19
  - Frequency in the population: 4 %
- `buy.fruit.and.vegetables_supermarket`
  - Contribution: 5.08

- V-Test: 6.1
  - Frequency in the population: 3 %
- **buy.dairy.products\_supermarket**
  - Contribution: 3.42
  - V-Test: 5.06
  - Frequency in the population: 5 %
- **buy.fish\_supermarket**
  - Contribution: 5.08
  - V-Test: 6.1
  - Frequency in the population: 3 %
- **buy.soft.drinks\_supermarket**
  - Contribution: 4.04
  - V-Test: 5.47
  - Frequency in the population: 4 %
- **buy.red.meat\_supermarket**
  - Contribution: 2.78
  - V-Test: 4.51
  - Frequency in the population: 3 %
- **buy.white.meat\_supermarket**
  - Contribution: 3.12
  - V-Test: 4.8
  - Frequency in the population: 4 %
- **buying.labelled.fruits.and.vegetables\_no**
  - Contribution: 1.03
  - V-Test: 5.31
  - Frequency in the population: 74 %
- **buy.alcoholic.drinks\_supermarket**
  - Contribution: 3.27
  - V-Test: 4.87
  - Frequency in the population: 2 %
- **buy.cheese\_supermarket**
  - Contribution: 2.36
  - V-Test: 4.22
  - Frequency in the population: 6 %

**The most meaningful categories characterizing the negative side of the second axis are:**

- **buy.eggs\_specialized shops**
  - Contribution: 3.27
  - V-Test: -5

- Frequency in the population: 7 %
- **buy.soft.drinks\_specialized shops**
  - Contribution: 2.84
  - V-Test: -4.59
  - Frequency in the population: 4 %
- **buy.fruit.and.vegetables\_specialized shops**
  - Contribution: 1.27
  - V-Test: -3.1
  - Frequency in the population: 6 %
- **buy.fruit.and.vegetables\_market**
  - Contribution: 0.77
  - V-Test: -2.95
  - Frequency in the population: 37 %
- **buying.labelled.fruits.and.vegetables\_yes**
  - Contribution: 2.94
  - V-Test: -5.31
  - Frequency in the population: 26 %
- **buy.cheese\_specialized stores**
  - Contribution: 2.88
  - V-Test: -4.62
  - Frequency in the population: 4 %
- **buy.dairy.products\_specialized shops**
  - Contribution: 2.71
  - V-Test: -4.45
  - Frequency in the population: 3 %
- **buy.fish\_specialized stores**
  - Contribution: 1.32
  - V-Test: -3.18
  - Frequency in the population: 7 %
- **buy.chocolate\_specialized shops**
  - Contribution: 2.58
  - V-Test: -4.37
  - Frequency in the population: 4 %
- **buying.labelled.dairy.products\_yes**
  - Contribution: 2.22
  - V-Test: -4.49
  - Frequency in the population: 22 %

### 3 Typology on the individuals

#### 3.1 Choice of the number of clusters

The ascendant hierarchical clustering (AHC) lead to a partition made of 4 clusters. Those clusters are displayed in the following representations: a graphical representation of the individuals according to the cluster they belong to, a representation of the center of gravity of each group enhanced by a confidence ellipse, a representation of the individuals according to the cluster they belong to by the use of density curbs.

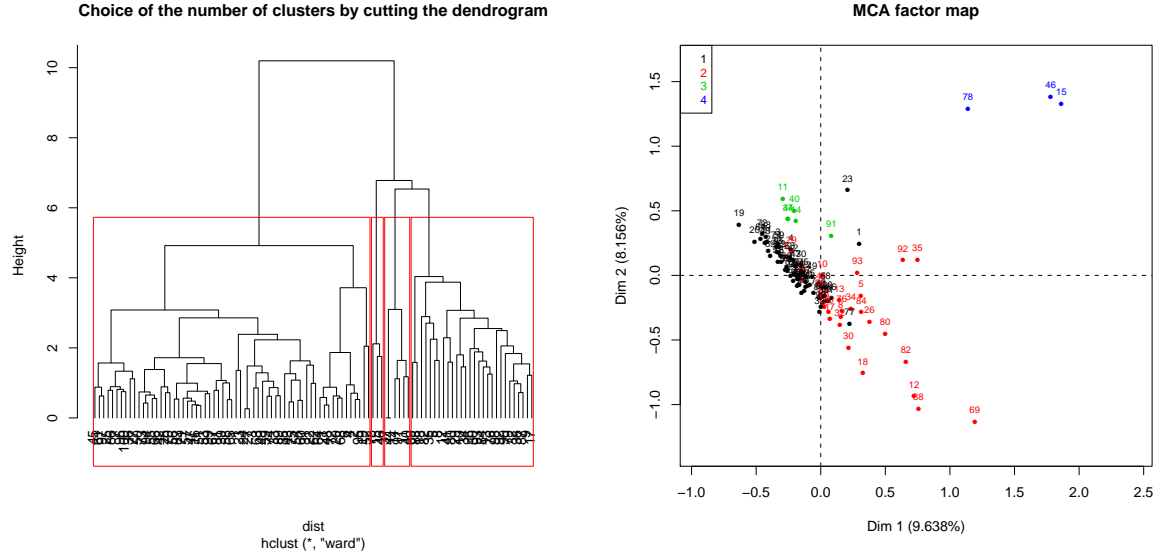


Figure 3: Number of clusters chosen by the analyst; representation of the individuals according to their cluster

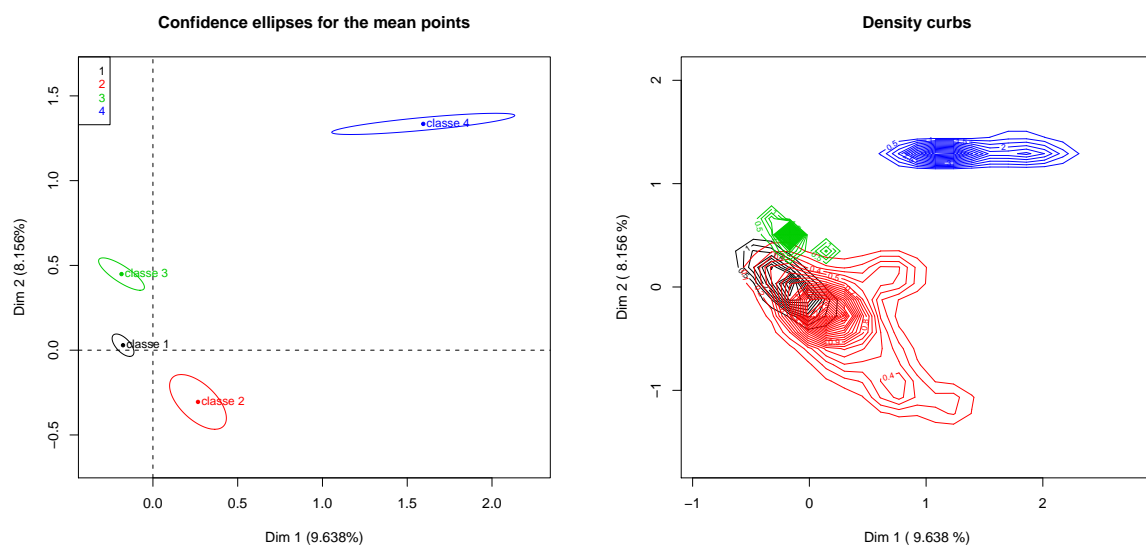


Figure 4: Centers of gravity with confidence ellipses; representation of the individuals according to their cluster with density curbs

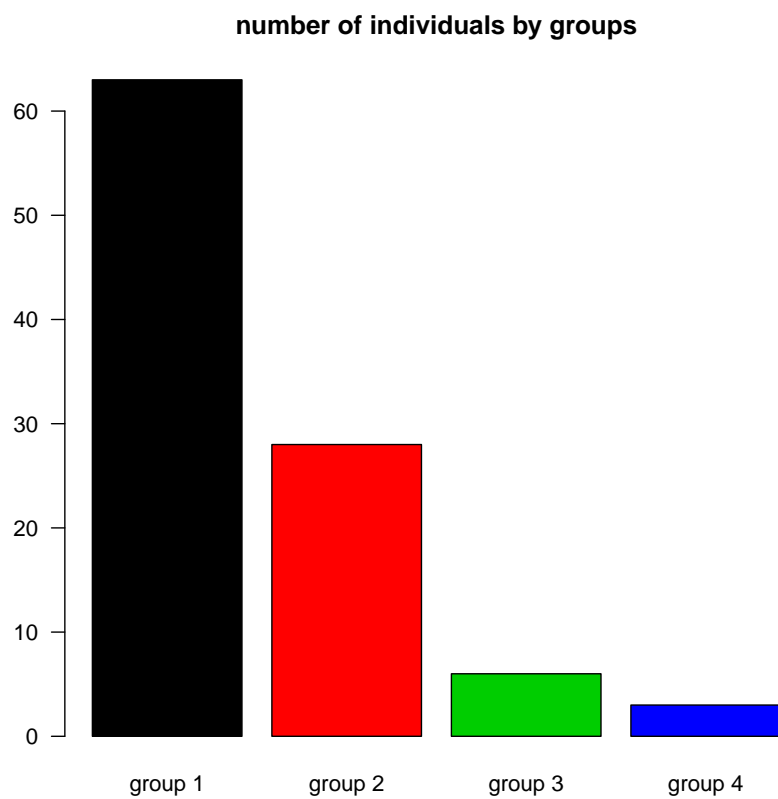


Figure 5: Number of individuals per cluster

### 3.2 Simultaneous comparison of the clusters with respect with the most relevant variables

#### 3.2.1 Number of individuals by cluster for the variable buy.fruit.and.vegetables

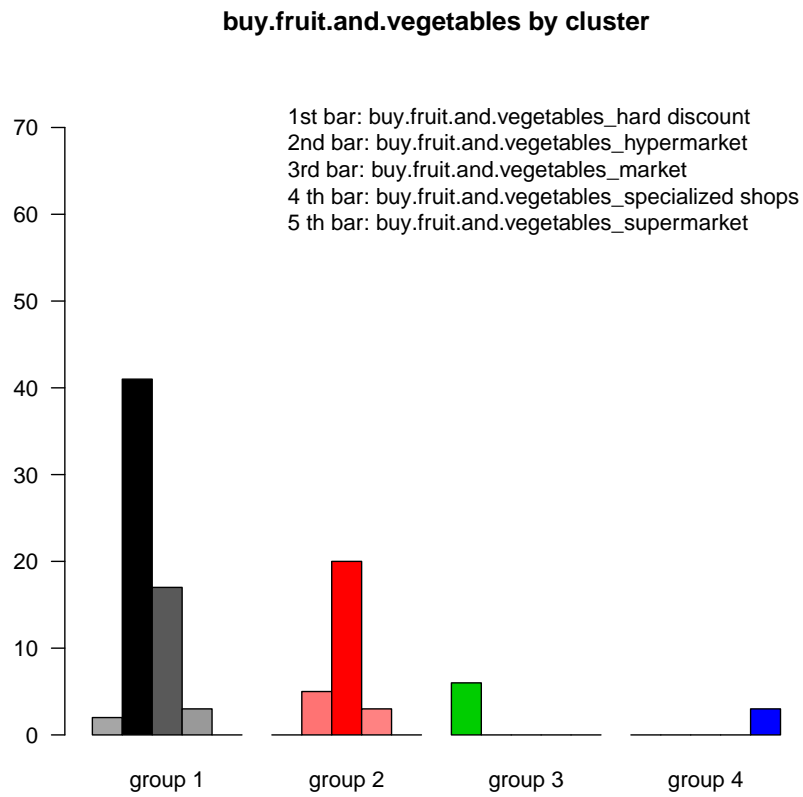


Figure 6: Variable buy.fruit.and.vegetables

3.2.2 Number of individuals by cluster for the variable buy.eggs

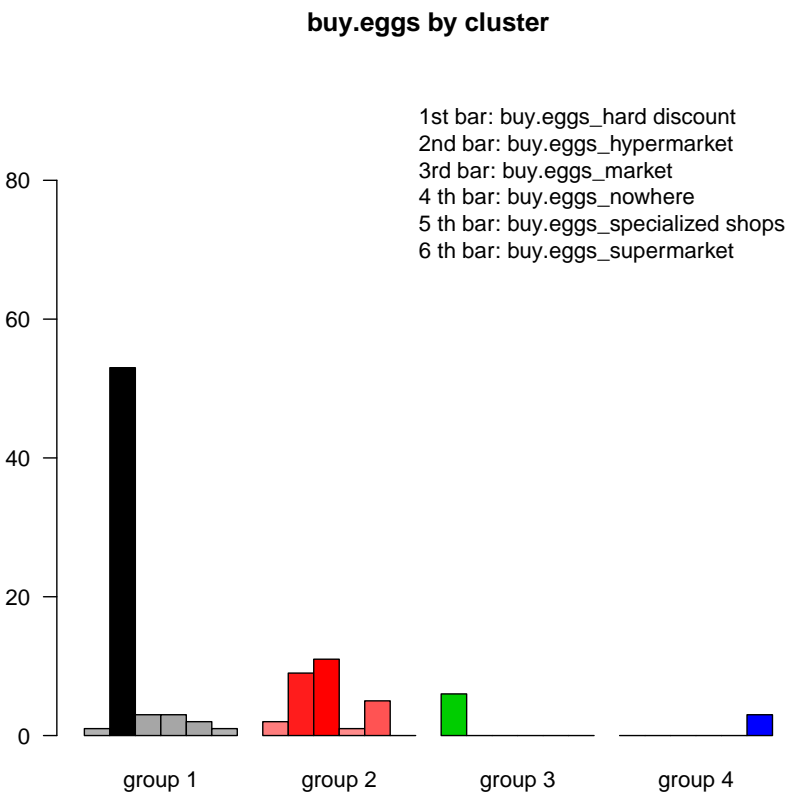


Figure 7: Variable buy.eggs

3.2.3 Number of individuals by cluster for the variable buy.white.meat

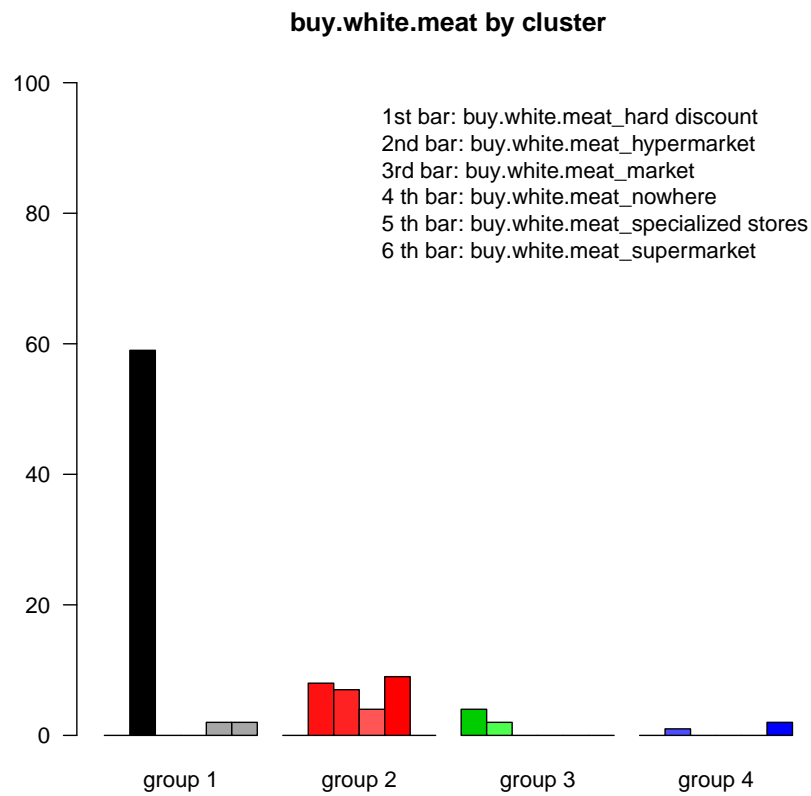


Figure 8: Variable buy.white.meat



3.2.4 Number of individuals by cluster for the variable buy.red.meat

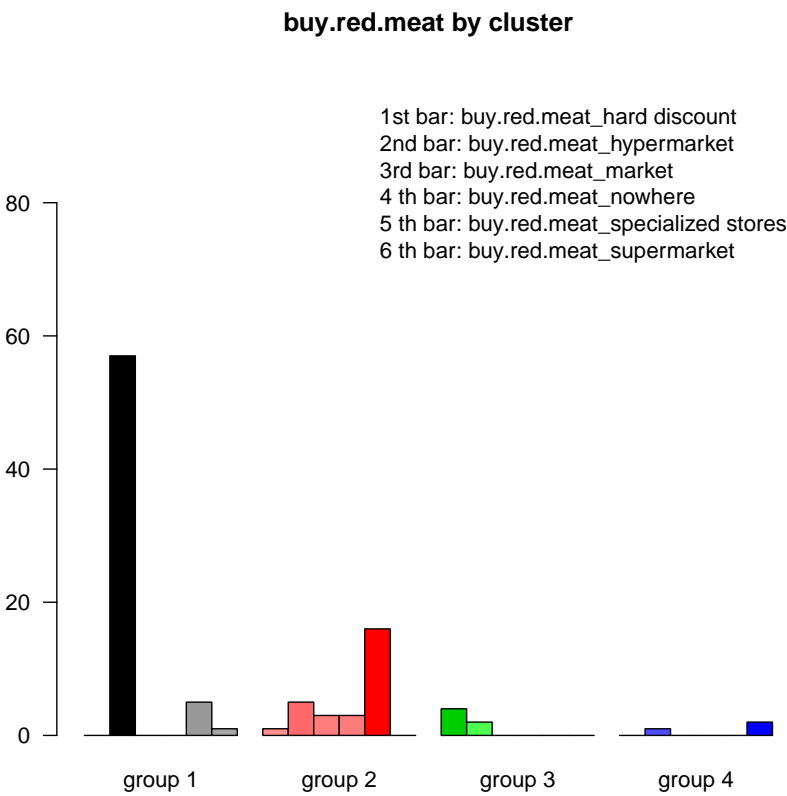


Figure 9: Variable buy.red.meat

### 3.2.5 Number of individuals by cluster for the variable buy.fish

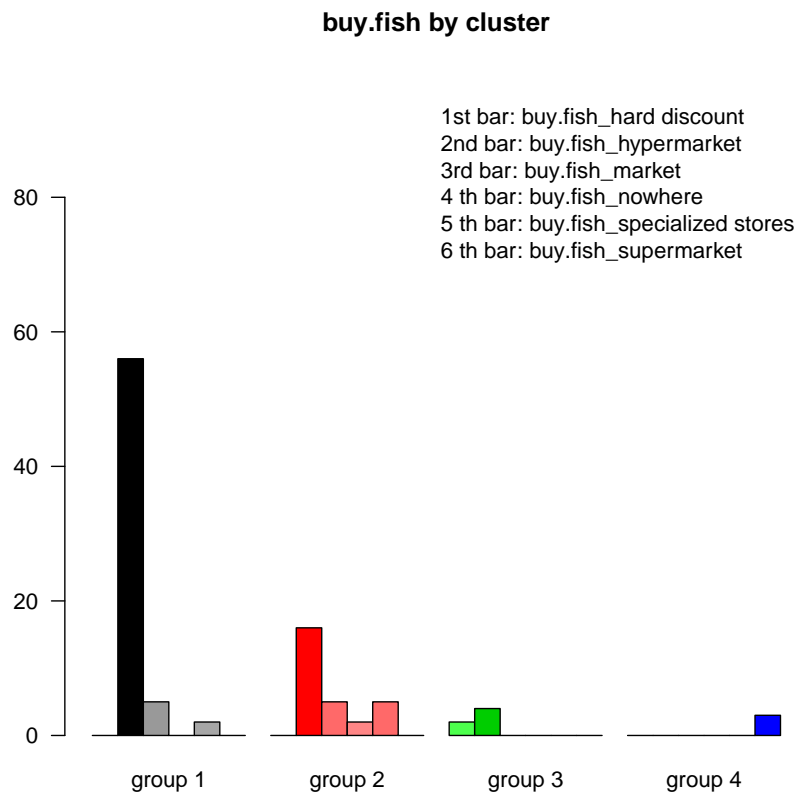


Figure 10: Variable buy.fish

3.2.6 Number of individuals by cluster for the variable buy.cheese

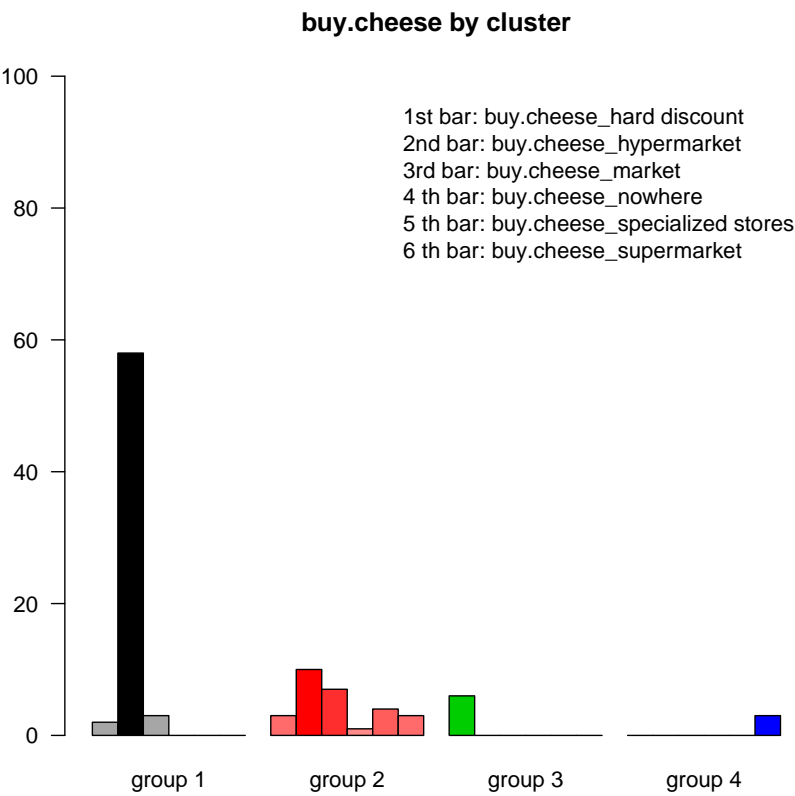


Figure 11: Variable buy.cheese

3.2.7 Number of individuals by cluster for the variable buy.dairy.products

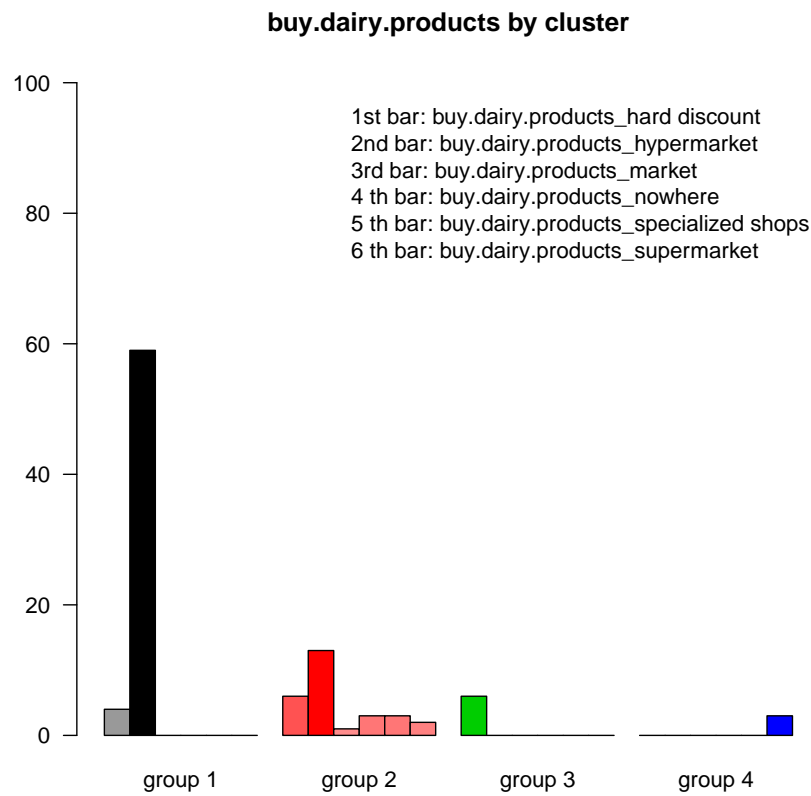


Figure 12: Variable buy.dairy.products

3.2.8 Number of individuals by cluster for the variable buy.alcoholic.drinks

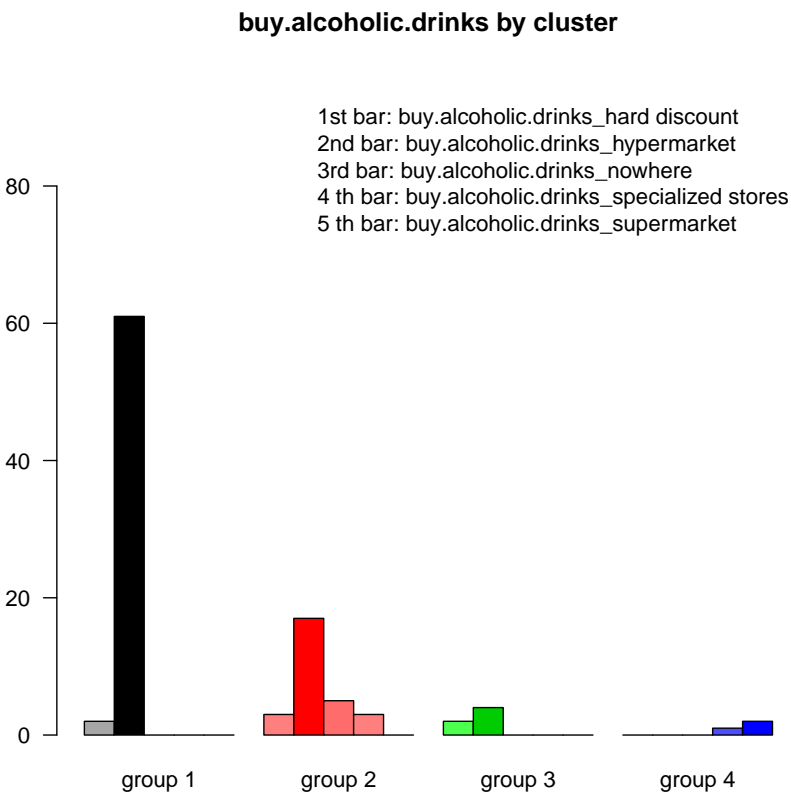


Figure 13: Variable buy.alcoholic.drinks

### 3.2.9 Number of individuals by cluster for the variable buy.soft.drinks

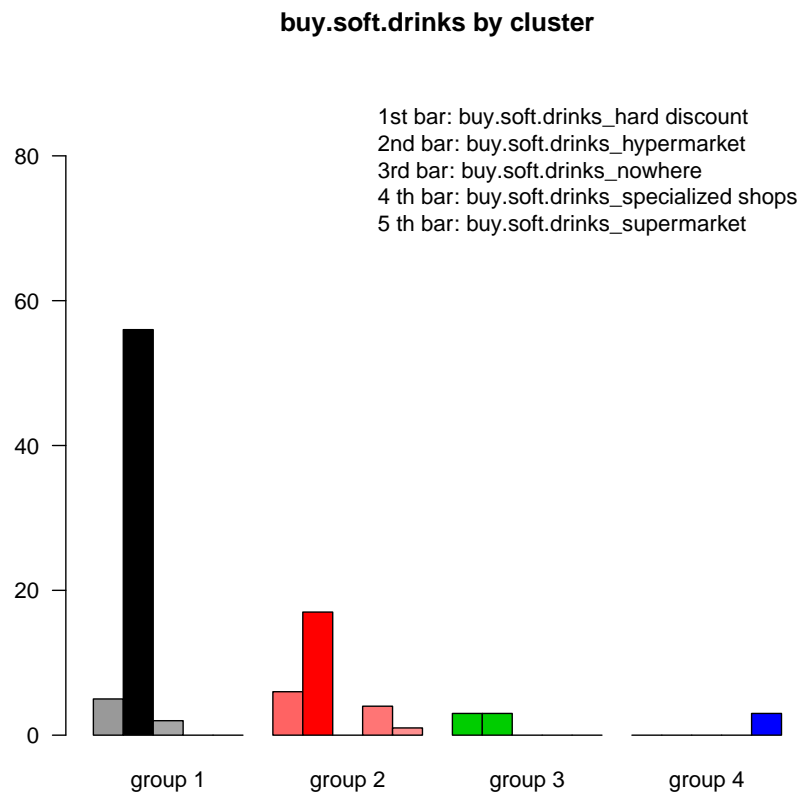


Figure 14: Variable buy.soft.drinks

### 3.2.10 Number of individuals by cluster for the variable buy.chocolate

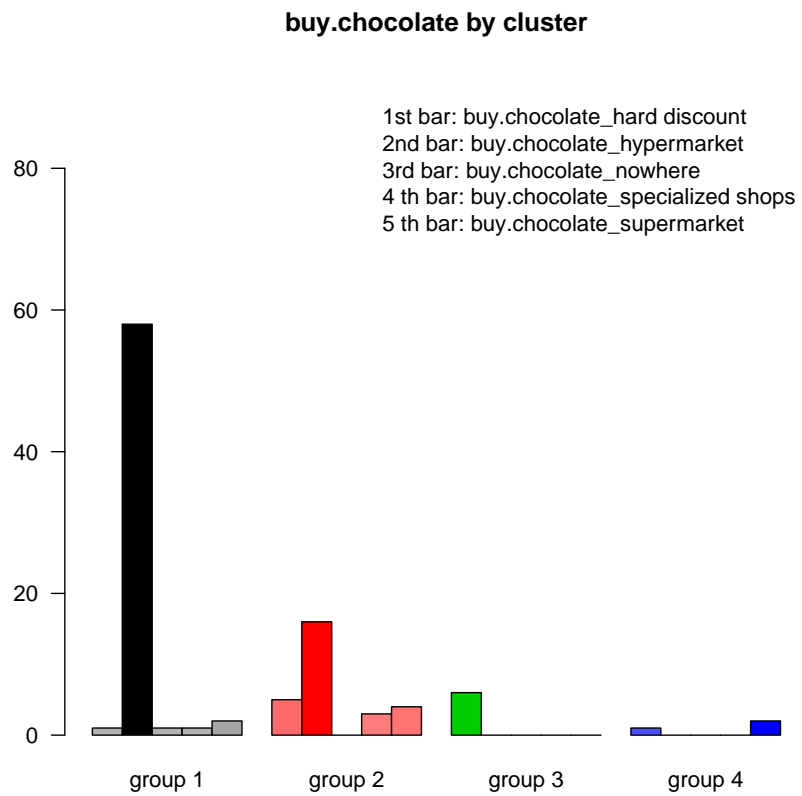


Figure 15: Variable buy.chocolate

### 3.3 Automatic description of each cluster

**The cluster 1 (63 individuals) includes the individuals possessing the following categories:**

- **buy.red.meat=buy.red.meat\_hypermarket**  
65 % of the individuals possess this category in the global population versus 90.48 % in the cluster 1 .  
Moreover, 87.69 % of the individuals possessing this category belong to the cluster 1 .
- **buy.cheese=buy.cheese\_hypermarket**  
68 % of the individuals possess this category in the global population versus 92.06 % in the cluster 1 .  
Moreover, 85.29 % of the individuals possessing this category belong to the cluster 1 .
- **buy.white.meat=buy.white.meat\_hypermarket**  
70 % of the individuals possess this category in the global population versus 93.65 % in the cluster 1 .  
Moreover, 84.29 % of the individuals possessing this category belong to the cluster 1 .
- **buy.dairy.products=buy.dairy.products\_hypermarket**  
72 % of the individuals possess this category in the global population versus 93.65 % in the cluster 1 .  
Moreover, 81.94 % of the individuals possessing this category belong to the cluster 1 .
- **buy.eggs=buy.eggs\_hypermarket**  
62 % of the individuals possess this category in the global population versus 84.13 % in the cluster 1 .  
Moreover, 85.48 % of the individuals possessing this category belong to the cluster 1 .
- **buy.coffee.tea=buy.coffee.tea\_hypermarket**  
67 % of the individuals possess this category in the global population versus 87.3 % in the cluster 1 .  
Moreover, 82.09 % of the individuals possessing this category belong to the cluster 1 .
- **buy.chocolate=buy.chocolate\_hypermarket**  
74 % of the individuals possess this category in the global population versus 92.06 % in the cluster 1 .  
Moreover, 78.38 % of the individuals possessing this category belong to the cluster 1 .
- **buy.fruit.and.vegetables=buy.fruit.and.vegetables\_hypermarket**  
46 % of the individuals possess this category in the global population versus 65.08 % in the cluster 1 .  
Moreover, 89.13 % of the individuals possessing this category belong to the cluster 1 .
- **buy.alcoholic.drinks=buy.alcoholic.drinks\_hypermarket**  
82 % of the individuals possess this category in the global population versus 96.83 % in the cluster 1 .  
Moreover, 74.39 % of the individuals possessing this category belong to the cluster 1 .
- **errands.in.specialized.stores=errands.in.specialized.stores\_no**  
66 % of the individuals possess this category in the global population versus 82.54 % in the cluster 1 .  
Moreover, 78.79 % of the individuals possessing this category belong to the cluster 1 .



**The cluster 2 (28 individuals) includes the individuals possessing the following categories:**

- **errands.in.specialized.stores=errands.in.specialized.stores\_yes**  
34 % of the individuals possess this category in the global population versus 75 % in the cluster 2 .  
Moreover, 61.76 % of the individuals possessing this category belong to the cluster 2 .
- **buy.red.meat=buy.red.meat\_specialized stores**  
21 % of the individuals possess this category in the global population versus 57.14 % in the cluster 2 .  
Moreover, 76.19 % of the individuals possessing this category belong to the cluster 2 .
- **buy-ing.labelled.fruits.and.vegetables=buying.labelled.fruits.and.vegetables\_yes**  
26 % of the individuals possess this category in the global population versus 60.71 % in the cluster 2 .  
Moreover, 65.38 % of the individuals possessing this category belong to the cluster 2 .
- **buy.fruit.and.vegetables=buy.fruit.and.vegetables\_market**  
37 % of the individuals possess this category in the global population versus 71.43 % in the cluster 2 .  
Moreover, 54.05 % of the individuals possessing this category belong to the cluster 2 .
- **buy.eggs=buy.eggs\_market**  
14 % of the individuals possess this category in the global population versus 39.29 % in the cluster 2 .  
Moreover, 78.57 % of the individuals possessing this category belong to the cluster 2 .
- **labelled.products.as.part.of.daily.diet=labelled.products.as.part.of.daily.diet\_yes**  
54 % of the individuals possess this category in the global population versus 85.71 % in the cluster 2 .  
Moreover, 44.44 % of the individuals possessing this category belong to the cluster 2 .
- **buy.white.meat=buy.white.meat\_market**  
7 % of the individuals possess this category in the global population versus 25 % in the cluster 2 .  
Moreover, 100 % of the individuals possessing this category belong to the cluster 2 .
- **errands.in.market=errands.in.market\_yes**  
51 % of the individuals possess this category in the global population versus 82.14 % in the cluster 2 .  
Moreover, 45.1 % of the individuals possessing this category belong to the cluster 2 .
- **buy.white.meat=buy.white.meat\_specialized stores**  
11 % of the individuals possess this category in the global population versus 32.14 % in the cluster 2 .  
Moreover, 81.82 % of the individuals possessing this category belong to the cluster 2 .
- **label.decisive.criterion=label.decisive.criterion\_yes**  
40 % of the individuals possess this category in the global population versus 67.86 % in the cluster 2 .  
Moreover, 47.5 % of the individuals possessing this category belong to the cluster 2 .

**The cluster 3 (6 individuals) includes the individuals possessing the following categories:**

- **buy.fruit.and.vegetables=buy.fruit.and.vegetables\_hard discount**  
8 % of the individuals possess this category in the global population versus 100 % in the cluster 3 .  
Moreover, 75 % of the individuals possessing this category belong to the cluster 3 .
- **buy.eggs=buy.eggs\_hard discount**  
9 % of the individuals possess this category in the global population versus 100 % in the cluster 3 .  
Moreover, 66.67 % of the individuals possessing this category belong to the cluster 3 .
- **buy.cheese=buy.cheese\_hard discount**  
11 % of the individuals possess this category in the global population versus 100 % in the cluster 3 .  
Moreover, 54.55 % of the individuals possessing this category belong to the cluster 3 .
- **buy.chocolate=buy.chocolate\_hard discount**  
13 % of the individuals possess this category in the global population versus 100 % in the cluster 3 .  
Moreover, 46.15 % of the individuals possessing this category belong to the cluster 3 .
- **buy.white.meat=buy.white.meat\_hard discount**  
4 % of the individuals possess this category in the global population versus 66.67 % in the cluster 3 .  
Moreover, 100 % of the individuals possessing this category belong to the cluster 3 .
- **buy.dairy.products=buy.dairy.products\_hard discount**  
16 % of the individuals possess this category in the global population versus 100 % in the cluster 3 .  
Moreover, 37.5 % of the individuals possessing this category belong to the cluster 3 .
- **buy.red.meat=buy.red.meat\_hard discount**  
5 % of the individuals possess this category in the global population versus 66.67 % in the cluster 3 .  
Moreover, 80 % of the individuals possessing this category belong to the cluster 3 .
- **price.unjustified.superiority=price.unjustified.superiority\_yes**  
16 % of the individuals possess this category in the global population versus 83.33 % in the cluster 3 .  
Moreover, 31.25 % of the individuals possessing this category belong to the cluster 3 .
- **buy.fish=buy.fish\_hard discount**  
2 % of the individuals possess this category in the global population versus 33.33 % in the cluster 3 .  
Moreover, 100 % of the individuals possessing this category belong to the cluster 3 .
- **errands.in.hard.discount=errands.in.hard.discount\_yes**  
40 % of the individuals possess this category in the global population versus 100 % in the cluster 3 .  
Moreover, 15 % of the individuals possessing this category belong to the cluster 3 .

**The cluster 4 (3 individuals) includes the individuals possessing the following categories:**

- **buy.fruit.and.vegetables=buy.fruit.and.vegetables\_supermarket**  
3 % of the individuals possess this category in the global population versus 100 % in the cluster 4 .  
Moreover, 100 % of the individuals possessing this category belong to the cluster 4 .
- **buy.fish=buy.fish\_supermarket**  
3 % of the individuals possess this category in the global population versus 100 % in the cluster 4 .  
Moreover, 100 % of the individuals possessing this category belong to the cluster 4 .
- **buy.eggs=buy.eggs\_supermarket**  
4 % of the individuals possess this category in the global population versus 100 % in the cluster 4 .  
Moreover, 75 % of the individuals possessing this category belong to the cluster 4 .
- **buy.soft.drinks=buy.soft.drinks\_supermarket**  
4 % of the individuals possess this category in the global population versus 100 % in the cluster 4 .  
Moreover, 75 % of the individuals possessing this category belong to the cluster 4 .
- **buy.dairy.products=buy.dairy.products\_supermarket**  
5 % of the individuals possess this category in the global population versus 100 % in the cluster 4 .  
Moreover, 60 % of the individuals possessing this category belong to the cluster 4 .
- **buy.cheese=buy.cheese\_supermarket**  
6 % of the individuals possess this category in the global population versus 100 % in the cluster 4 .  
Moreover, 50 % of the individuals possessing this category belong to the cluster 4 .
- **buy.alcoholic.drinks=buy.alcoholic.drinks\_supermarket**  
2 % of the individuals possess this category in the global population versus 66.67 % in the cluster 4 .  
Moreover, 100 % of the individuals possessing this category belong to the cluster 4 .
- **buy.red.meat=buy.red.meat\_supermarket**  
3 % of the individuals possess this category in the global population versus 66.67 % in the cluster 4 .  
Moreover, 66.67 % of the individuals possessing this category belong to the cluster 4 .
- **buy.coffee.tea=buy.coffee.tea\_supermarket**  
4 % of the individuals possess this category in the global population versus 66.67 % in the cluster 4 .  
Moreover, 50 % of the individuals possessing this category belong to the cluster 4 .
- **buy.white.meat=buy.white.meat\_supermarket**  
4 % of the individuals possess this category in the global population versus 66.67 % in the cluster 4 .  
Moreover, 50 % of the individuals possessing this category belong to the cluster 4 .