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# EnQuireR: Multivariate Exploratory Analysis of Questionnaires

## Multivariate exploration of the questionnaire

How is my dataset “structured”?

How does my dataset look like?

How can the main axes of variability be interpreted?

## Typology of the individuals

How many groups are there in my dataset?

How can the groups be displayed?

How different are the groups?

How can the groups be described?



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## Percentages of variance explained by the first five axes

Axis	Eigenvalue	Percentage of variance
1	0.17309	9.64%
2	0.14647	8.16%
3	0.13214	7.36%
4	0.09238	5.14%
5	0.0782	4.35%

**Table:** Eigenvalues associated with the first five axes



How does my dataset look like?

## Representation of the individuals

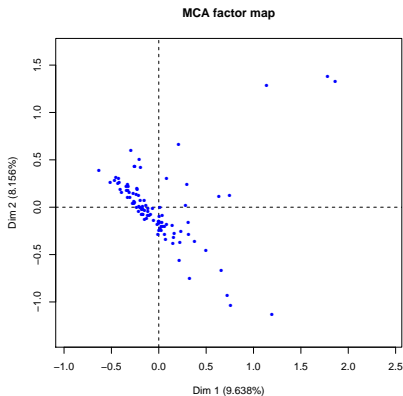


Figure: Raw representation of the individuals on axes 1 and 2

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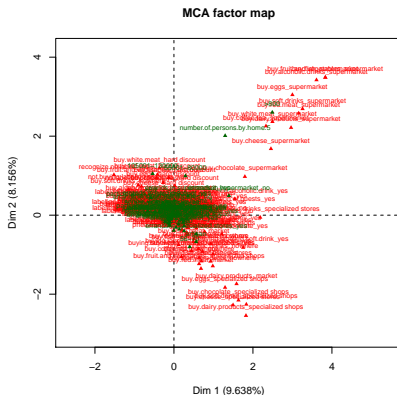
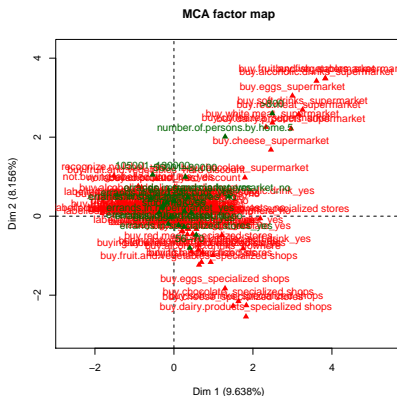


Figure: Raw representation of the categories on axes 1 and 2

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**Figure:** Simplified representation of the categories on axes 1 and 2



How can the main axes of variability be interpreted?

## Description of the first axis: positive side ( 1 / 4 )

The following categories are meaningful for the first axis (positive side):

- `buy.fruit.and.vegetables_supermarket`
- `buy.soft.drinks_supermarket`
- `buy.fish_supermarket`
- `buy.eggs_supermarket`
- `buy.red.meat_supermarket`
- `buy.dairy.products_supermarket`
- `buy.alcoholic.drinks_supermarket`
- `buy.cheese_supermarket`
- `buying.labelled.alcoholic.drink_yes`
- `buy.white.meat_supermarket`





How can the main axes of variability be interpreted?

## Description of the first axis: positive side ( 2 / 4 )

The following categories are meaningful for the first axis (positive side):

- `buying.labelled.soft.drink_yes`
- `buy.coffee.tea_supermarket`
- `buying.labelled.cheese_yes`
- `no.labelled.product_no`
- `labelled.products.as.part.of.daily.diet_yes`
- `buy.chocolate_supermarket`
- `buying.labelled.chocolate_yes`
- `not.buying.labelled.products_no`
- `buy.soft.drinks_specialized shops`
- `buying.labelled.eggs_yes`



## Description of the first axis: positive side ( 3 / 4 )

The following categories are meaningful for the first axis (positive side):

- `buying.labelled.dairy.products_yes`
- `buying.labelled.red.meat_yes`
- `buy.chocolate_specialized shops`
- `buy.alcoholic.drinks_specialized stores`
- `label.local.products_yes`
- `label.decisive.criterion_yes`
- `buy.eggs_specialized shops`
- `buying.labelled.coffee.tea_yes`
- `buy.cheese_specialized stores`
- `buying.labelled.fruits.and.vegetables_yes`



How can the main axes of variability be interpreted?

## Description of the first axis: positive side ( 4 / 4 )

The following categories are meaningful for the first axis (positive side):

- `price.margin.for.the.industrialist_yes`
- `labelled.products.as.part.of.reception.of.guests_yes`
- `label.a.specification_yes`
- `label.a.preservation.of.the.gastronomy_yes`
- `buying.labelled.white.meat_yes`
- `buy.dairy.products_specialized shops`
- `labelled.products.as.part.of.discovery_yes`
- `label.certainty.on.the.origin_yes`



How can the main axes of variability be interpreted?

## Description of the first axis: negative side ( 1 / 5 )

The following categories are meaningful for the first axis (negative side):

- `buy.dairy.products_hypermarket`
- `buy.alcoholic.drinks_hypermarket`
- `buy.fruit.and.vegetables_hypermarket`
- `buy.eggs_hypermarket`
- `buy.dairy.products_hard discount`
- `buy.red.meat_hypermarket`
- `buy.fish_hypermarket`
- `buy.white.meat_hypermarket`
- `buy.soft.drinks_hypermarket`
- `buy.alcoholic.drinks_hard discount`



How can the main axes of variability be interpreted?

## Description of the first axis: negative side ( 2 / 5 )

The following categories are meaningful for the first axis (negative side):

- `buy.cheese_hypermarket`
- `buying.labelled.alcoholic.drink_no`
- `buy.fruit.and.vegetables_hard discount`
- `buy.coffee.tea_hypermarket`
- `buying.labelled.soft.drink_no`
- `buy.soft.drinks_nowhere`
- `buying.labelled.cheese_no`
- `no.labelled.product_yes`
- `buy.soft.drinks_hard discount`
- `labelled.products.as.part.of.daily.diet_no`



How can the main axes of variability be interpreted?

## Description of the first axis: negative side ( 3 / 5 )

The following categories are meaningful for the first axis (negative side):

- `buy.eggs_hard discount`
- `buying.labelled.chocolate_no`
- `not.buying.labelled.products_yes`
- `buy.fruit.and.vegetables_market`
- `buy.cheese_hard discount`
- `buy.red.meat_hard discount`
- `buy.chocolate_hypermarket`
- `buying.labelled.eggs_no`
- `buying.labelled.dairy.products_no`
- `buying.labelled.red.meat_no`



How can the main axes of variability be interpreted?

## Description of the first axis: negative side ( 4 / 5 )

The following categories are meaningful for the first axis (negative side):

- `label.local.products_no`
- `buy.white.meat_hard discount`
- `label.decisive.criterion_no`
- `buy.coffee.tea_hard discount`
- `buying.labelled.coffee.tea_no`
- `buying.labelled.fruits.and.vegetables_no`
- `price.margin.for.the.industrialist_no`
- `labelled.products.as.part.of.reception.of.guests_no`
- `buy.eggs_market`
- `label.a.specification_no`



How can the main axes of variability be interpreted?

## Description of the first axis: negative side ( 5 / 5 )

The following categories are meaningful for the first axis (negative side):

- `buy.eggs_nowhere`
- `label.a.preservation.of.the.gastronomy_no`
- `buying.labelled.white.meat_no`
- `buy.fish_hard discount`
- `labelled.products.as.part.of.discovery_no`
- `buy.fish_market`
- `label.certainty.on.the.origin_no`
- `buy.chocolate_nowhere`





How can the main axes of variability be interpreted?

## Description of the second axis: positive side ( 1 / 4 )

The following categories are meaningful for the second axis (positive side):

- buy.eggs\_supermarket
- buy.fruit.and.vegetables\_supermarket
- buy.dairy.products\_supermarket
- buy.fish\_supermarket
- buy.soft.drinks\_supermarket
- buy.red.meat\_supermarket
- buy.white.meat\_supermarket
- buying.labelled.fruits.and.vegetables\_no
- buy.alcoholic.drinks\_supermarket
- buy.cheese\_supermarket



How can the main axes of variability be interpreted?

## Description of the second axis: positive side ( 2 / 4 )

The following categories are meaningful for the second axis (positive side):

- `buy.coffee.tea_supermarket`
- `buying.labelled.dairy.products_no`
- `buy.dairy.products_hard discount`
- `buying.labelled.white.meat_no`
- `no.labelled.product_yes`
- `label.decisive.criterion_no`
- `labelled.products.as.part.of.daily.diet_no`
- `buying.labelled.eggs_no`
- `buying.labelled.fish_no`
- `not.buying.labelled.products_yes`



How can the main axes of variability be interpreted?

## Description of the second axis: positive side ( 3 / 4 )

The following categories are meaningful for the second axis (positive side):

- `label.a.specification_no`
- `buy.cheese_hard discount`
- `buying.labelled.red.meat_no`
- `buy.chocolate_supermarket`
- `buy.red.meat_hard discount`
- `buy.chocolate_hard discount`
- `buy.eggs_hard discount`
- `buy.white.meat_hard discount`
- `price.earnings.for.the.producer_no`
- `buying.labelled.cheese_no`



How can the main axes of variability be interpreted?

## Description of the second axis: positive side ( 4 / 4 )

The following categories are meaningful for the second axis (positive side):

- `buy.dairy.products_hypermarket`
- `buying.labelled.soft.drink_no`



How can the main axes of variability be interpreted?

## Description of the second axis: negative side ( 1 / 4 )

The following categories are meaningful for the first axis (negative side):

- buy.eggs\_specialized shops
- buy.soft.drinks\_specialized shops
- buy.fruit.and.vegetables\_specialized shops
- buy.fruit.and.vegetables\_market
- buying.labelled.fruits.and.vegetables\_yes
- buy.cheese\_specialized stores
- buy.dairy.products\_specialized shops
- buy.fish\_specialized stores
- buy.chocolate\_specialized shops
- buying.labelled.dairy.products\_yes



How can the main axes of variability be interpreted?

## Description of the second axis: negative side ( 2 / 4 )

The following categories are meaningful for the first axis (negative side):

- `buy.white.meat_specialized stores`
- `buy.alcoholic.drinks_nowhere`
- `buying.labelled.white.meat_yes`
- `buy.red.meat_specialized stores`
- `no.labelled.product_no`
- `label.decisive.criterion_yes`
- `buy.red.meat_market`
- `buy.fruit.and.vegetables_hypermartket`
- `labelled.products.as.part.of.daily.diet_yes`
- `buy.eggs_market`



How can the main axes of variability be interpreted?

## Description of the second axis: negative side ( 3 / 4 )

The following categories are meaningful for the first axis (negative side):

- `buying.labelled.eggs_yes`
- `buy.fish_market`
- `buying.labelled.fish_yes`
- `not.buying.labelled.products_no`
- `label.a.specification_yes`
- `buy.eggs_hypermarket`
- `buy.alcoholic.drinks_hypermarket`
- `buying.labelled.red.meat_yes`
- `buy.red.meat_nowhere`
- `buy.white.meat_market`



How can the main axes of variability be interpreted?

## Description of the second axis: negative side ( 4 / 4 )

The following categories are meaningful for the first axis (negative side):

- `buy.coffee.tea_nowhere`
- `buy.white.meat_nowhere`
- `price.earnings.for.the.producer_yes`
- `buying.labelled.cheese_yes`
- `buy.soft.drinks_hypermarket`
- `buy.coffee.tea_specialized shops`
- `buy.fish_nowhere`
- `buying.labelled.soft.drink_yes`
- `buy.dairy.products_nowhere`
- `buy.dairy.products_market`





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## Multivariate exploration of the questionnaire

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How many groups are there in my dataset?

How can the groups be displayed?

How different are the groups?

How can the groups be described?

How many groups are there in my dataset?

## Number of clusters chosen by the analyst

Choice of the number of clusters by cutting the dendrogram

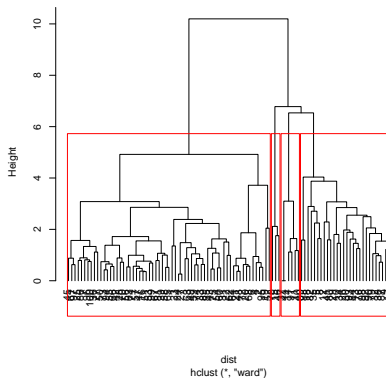


Figure: A number of clusters is chosen

How can the groups be displayed?

## Representation of the individuals according to the group they belong to

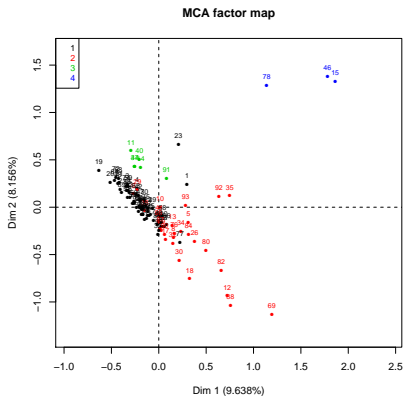


Figure: Correspondence map displaying clusters

How can the groups be displayed?

Simplified representation of the individuals according to the group they belong to

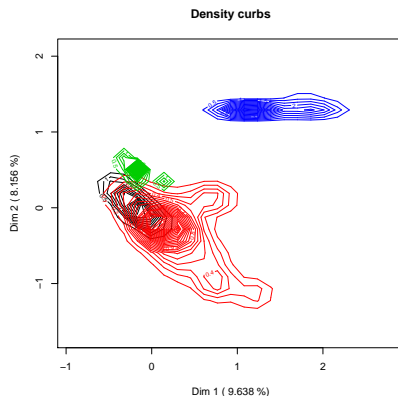


Figure: Levelling curves around each cluster

How can the groups be displayed?

## Representation of the barycenter of each group enhanced with confidence ellipses

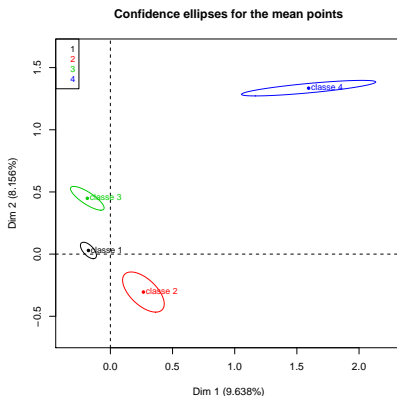


Figure: Confidence ellipses around each cluster



How different are the groups?

## Number of individuals per cluster

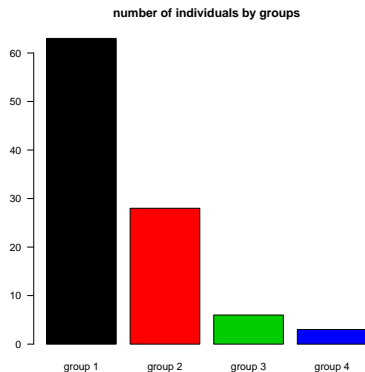
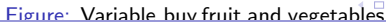


Figure: Number of individuals by cluster

Distribution of the individuals per cluster for the variable  
buy.fruit.and.vegetables





How different are the groups?

## Distribution of the individuals per cluster for the variable buy.eggs

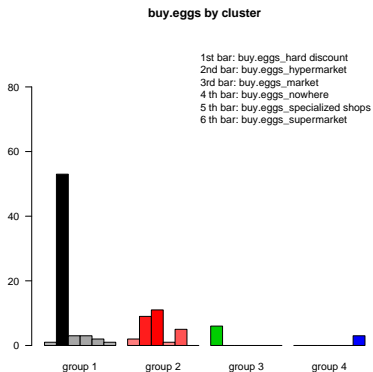


Figure: Variable buy.eggs



### Distribution of the individuals per cluster for the variable buy.white.meat





How different are the groups?

## Distribution of the individuals per cluster for the variable buy.red.meat

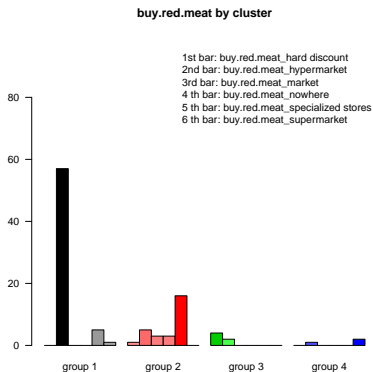


Figure: Variable buy.red.meat



How different are the groups?

## Distribution of the individuals per cluster for the variable buy.fish

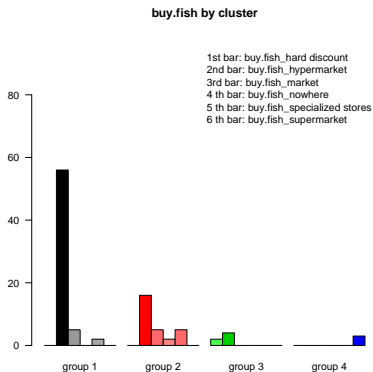


Figure: Variable buy.fish

How different are the groups?

## Distribution of the individuals per cluster for the variable buy.cheese

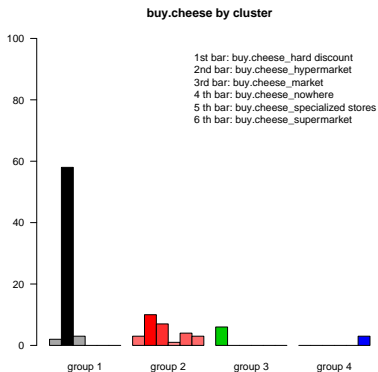


Figure: Variable buy.cheese



How different are the groups?

## Distribution of the individuals per cluster for the variable buy.dairy.products

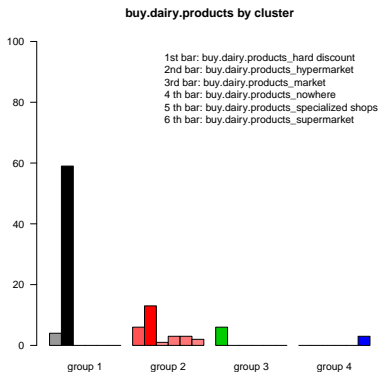


Figure: Variable buy.dairy.products



How different are the groups?

## Distribution of the individuals per cluster for the variable `buy.alcoholic.drinks`

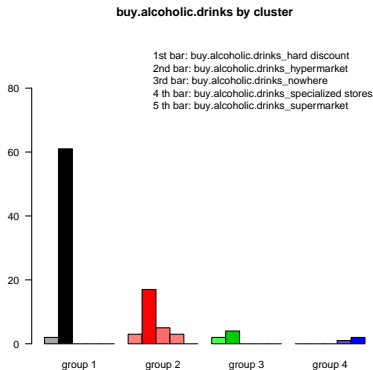


Figure: Variable `buy.alcoholic.drinks`



How different are the groups?

## Distribution of the individuals per cluster for the variable buy.soft.drinks

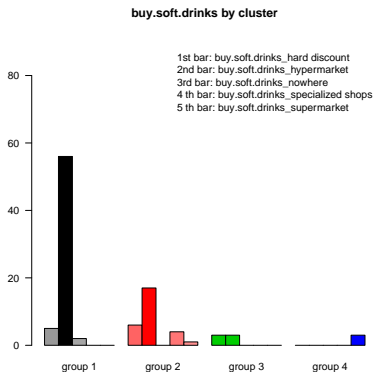


Figure: Variable buy.soft.drinks



How different are the groups?

## Distribution of the individuals per cluster for the variable buy.chocolate

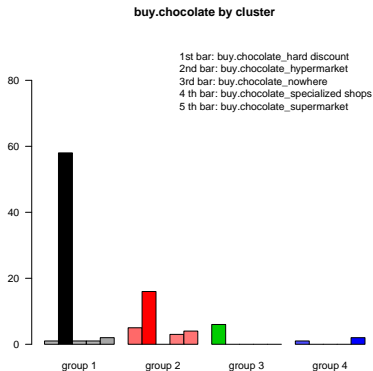


Figure: Variable buy.chocolate





## Description of cluster 1 ( 1 / 5 )

The following modalities are meaningful for cluster 1 :

- **buy.red.meat=buy.red.meat\_hypermarket**  
65 % of the individuals possess this category in the global population versus 90.48% of the individuals within cluster 1;  
87.69 % individuals possessing this category belong to cluster 1
- **buy.cheese=buy.cheese\_hypermarket**  
68 % of the individuals possess this category in the global population versus 92.06% of the individuals within cluster 1;  
85.29 % individuals possessing this category belong to cluster 1
- **buy.white.meat=buy.white.meat\_hypermarket**  
70 % of the individuals possess this category in the global population versus 93.65% of the individuals within cluster 1;  
84.29 % individuals possessing this category belong to cluster 1
- **buy.dairy.products=buy.dairy.products\_hypermarket**  
72 % of the individuals possess this category in the global population versus 93.65% of the individuals within cluster 1;  
81.94 % individuals possessing this category belong to cluster 1
- **buy.eggs=buy.eggs\_hypermarket**  
62 % of the individuals possess this category in the global population versus 84.13% of the individuals within cluster 1;  
85.48 % individuals possessing this category belong to cluster 1



How can the groups be described?

## Description of cluster 1 ( 2 / 5 )

The following modalities are meaningful for cluster 1 :

- **buy.coffee.tea=buy.coffee.tea\_hypermarket**  
 67 % of the individuals possess this category in the global population versus 87.3% of the individuals within cluster 1;  
 82.09 % individuals possessing this category belong to cluster 1
- **buy.chocolate=buy.chocolate\_hypermarket**  
 74 % of the individuals possess this category in the global population versus 92.06% of the individuals within cluster 1;  
 78.38 % individuals possessing this category belong to 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% of the individuals within cluster 1;  
 89.13 % individuals possessing this category belong to cluster 1
- **buy.alcoholic.drinks=buy.alcoholic.drinks\_hypermarket**  
 82 % of the individuals possess this category in the global population versus 96.83% of the individuals within cluster 1;  
 74.39 % individuals possessing this category belong to cluster 1
- **er-**  
**rands.in.specialized.stores=errands.in.specialized.stores\_no**  
 66 % of the individuals possess this category in the global population versus 82.54% of the individuals within cluster 1;  
 78.79 % individuals possessing this category belong to cluster 1



How can the groups be described?

## Description of cluster 1 ( 3 / 5 )

The following modalities are meaningful for cluster 1 :

- **buy.soft.drinks=buy.soft.drinks\_hypermarket**

76 % of the individuals possess this category in the global population versus 88.89% of the individuals within cluster 1;

73.68 % individuals possessing this category belong to cluster 1

- **buy.fish=buy.fish\_hypermarket**

76 % of the individuals possess this category in the global population versus 88.89% of the individuals within cluster 1;

73.68 % individuals possessing this category belong to cluster 1

- **la-**

**belled.products.as.part.of.daily.diet=labelled.products.as.part.of.**

46 % of the individuals possess this category in the global population versus 60.32% of the individuals within cluster 1;

82.61 % individuals possessing this category belong to cluster 1

- **buy-**

**ing.labelled.fruits.and.vegetables=buying.labelled.fruits.and.vegeta**

74 % of the individuals possess this category in the global population versus 85.71% of the individuals within cluster 1;

72.97 % individuals possessing this category belong to cluster 1

- 

**price.unjustified.superiority=price.unjustified.superiority\_no**

84 % of the individuals possess this category in the global population versus 93.65% of the individuals within cluster 1;

70.24 % individuals possessing this category belong to cluster 1



How can the groups be described?

## Description of cluster 1 ( 4 / 5 )

The following modalities are meaningful for cluster 1 :

- **errands.in.hypermarket=errands.in.hypermarket\_yes**  
94 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;  
67.02 % individuals possessing this category belong to cluster 1
- **label.a.quality.product=label.a.quality.product\_yes**  
69 % of the individuals possess this category in the global population versus 79.37% of the individuals within cluster 1;  
72.46 % individuals possessing this category belong to cluster 1
- **buying.labelled.soft.drink=buying.labelled.soft.drink\_no**  
93 % of the individuals possess this category in the global population versus 98.41% of the individuals within cluster 1;  
66.67 % individuals possessing this category belong to cluster 1
- **label.a.lifestyle=label.a.lifestyle\_no**  
78 % of the individuals possess this category in the global population versus 85.71% of the individuals within cluster 1;  
69.23 % individuals possessing this category belong to cluster 1
- **buy-ing.labelled.dairy.products=buying.labelled.dairy.products\_no**  
78 % of the individuals possess this category in the global population versus 85.71% of the individuals within cluster 1;  
69.23 % individuals possessing this category belong to cluster 1



How can the groups be described?

## Description of cluster 1 ( 5 / 5 )

The following modalities are meaningful for cluster 1 :

- **limited.budget=limited.budget\_yes**  
47 % of the individuals possess this category in the global population versus 55.56% of the individuals within cluster 1;  
74.47 % individuals possessing this category belong to cluster 1
- **label.decisive.criterion=label.decisive.criterion\_no**  
60 % of the individuals possess this category in the global population versus 68.25% of the individuals within cluster 1;  
71.67 % individuals possessing this category belong to cluster 1
- **buying.labelled.eggs=buying.labelled.eggs\_no**  
65 % of the individuals possess this category in the global population versus 73.02% of the individuals within cluster 1;  
70.77 % individuals possessing this category belong to cluster 1



## Description of cluster 2 ( 1 / 6 )

The following modalities are meaningful for cluster 2 :

- er-

`rands.in.specialized.stores=errands.in.specialized.stores_yes`

34 % of the individuals possess this category in the global population versus 75% of the individuals within cluster 2;

61.76 % individuals possessing this category belong to cluster 2

- `buy.red.meat=buy.red.meat_specialized stores`

21 % of the individuals possess this category in the global population versus 57.14% of the individuals within cluster 2;

76.19 % individuals possessing this category belong to cluster 2

- buy-

`ing.labelled.fruits.and.vegetables=buying.labelled.fruits.and.vegetables`

26 % of the individuals possess this category in the global population versus 60.71% of the individuals within cluster 2;

65.38 % individuals possessing this category belong to 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% of the individuals within cluster 2;

54.05 % individuals possessing this category belong to cluster 2

- `buy.eggs=buy.eggs_market`

14 % of the individuals possess this category in the global population versus 39.29% of the individuals within cluster 2;

78.57 % individuals possessing this category belong to cluster 2



How can the groups be described?

## Description of cluster 2 ( 2 / 6 )

The following modalities are meaningful for cluster 2 :

- **la-**

**belled.products.as.part.of.daily.diet=labelled.products.as.part.of.**

54 % of the individuals possess this category in the global population versus 85.71% of the individuals within cluster 2;

44.44 % individuals possessing this category belong to cluster 2

- **buy.white.meat=buy.white.meat\_market**

7 % of the individuals possess this category in the global population versus 25% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2

- **errands.in.market=errands.in.market\_yes**

51 % of the individuals possess this category in the global population versus 82.14% of the individuals within cluster 2;

45.1 % individuals possessing this category belong to cluster 2

- **buy.white.meat=buy.white.meat\_specialized stores**

11 % of the individuals possess this category in the global population versus 32.14% of the individuals within cluster 2;

81.82 % individuals possessing this category belong to cluster 2

- **label.decisive.criterion=label.decisive.criterion\_yes**

40 % of the individuals possess this category in the global population versus 67.86% of the individuals within cluster 2;

47.5 % individuals possessing this category belong to cluster 2



How can the groups be described?

## Description of cluster 2 ( 3 / 6 )

The following modalities are meaningful for cluster 2 :

- **buy-**  
**ing.labelled.dairy.products=buying.labelled.dairy.products\_yes**  
 22 % of the individuals possess this category in the global population versus 46.43% of the individuals within cluster 2;  
 59.09 % individuals possessing this category belong to cluster 2
- **buy.alcoholic.drinks=buy.alcoholic.drinks\_nowhere**  
 5 % of the individuals possess this category in the global population versus 17.86% of the individuals within cluster 2;  
 100 % individuals possessing this category belong to cluster 2
- **buy.coffee.tea=buy.coffee.tea\_specialized shops**  
 16 % of the individuals possess this category in the global population versus 35.71% of the individuals within cluster 2;  
 62.5 % individuals possessing this category belong to cluster 2
- **no.labelled.product=no.labelled.product\_no**  
 78 % of the individuals possess this category in the global population versus 96.43% of the individuals within cluster 2;  
 34.62 % individuals possessing this category belong to cluster 2
- **not.buying.labelled.products=not.buying.labelled.products\_no**  
 85 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 2;  
 32.94 % individuals possessing this category belong to cluster 2





## Description of cluster 2 ( 4 / 6 )

The following modalities are meaningful for cluster 2 :

- **buy.cheese=buy.cheese\_market**  
10 % of the individuals possess this category in the global population versus 25% of the individuals within cluster 2;  
70 % individuals possessing this category belong to cluster 2
- **buy.soft.drinks=buy.soft.drinks\_specialized shops**  
4 % of the individuals possess this category in the global population versus 14.29% of the individuals within cluster 2;  
100 % individuals possessing this category belong to cluster 2
- **buy.white.meat=buy.white.meat\_nowhere**  
4 % of the individuals possess this category in the global population versus 14.29% of the individuals within cluster 2;  
100 % individuals possessing this category belong to cluster 2
- **buy.cheese=buy.cheese\_specialized stores**  
4 % of the individuals possess this category in the global population versus 14.29% of the individuals within cluster 2;  
100 % individuals possessing this category belong to cluster 2
- **buying.labelled.cheese=buying.labelled.cheese\_yes**  
39 % of the individuals possess this category in the global population versus 60.71% of the individuals within cluster 2;  
43.59 % individuals possessing this category belong to cluster 2



## Description of cluster 2 ( 5 / 6 )

The following modalities are meaningful for cluster 2 :

- **label.a.quality.product=label.a.quality.product\_no**  
 31 % of the individuals possess this category in the global population versus 50% of the individuals within cluster 2;  
 45.16 % individuals possessing this category belong to cluster 2
- **buying.labelled.eggs=buying.labelled.eggs\_yes**  
 35 % of the individuals possess this category in the global population versus 53.57% of the individuals within cluster 2;  
 42.86 % individuals possessing this category belong to cluster 2
- **buy.eggs=buy.eggs\_specialized shops**  
 7 % of the individuals possess this category in the global population versus 17.86% of the individuals within cluster 2;  
 71.43 % individuals possessing this category belong to cluster 2
- **buy.fish=buy.fish\_specialized stores**  
 7 % of the individuals possess this category in the global population versus 17.86% of the individuals within cluster 2;  
 71.43 % individuals possessing this category belong to cluster 2
- **buy.dairy.products=buy.dairy.products\_specialized shops**  
 3 % of the individuals possess this category in the global population versus 10.71% of the individuals within cluster 2;  
 100 % individuals possessing this category belong to cluster 2



## Description of cluster 2 ( 6 / 6 )

The following modalities are meaningful for cluster 2 :

- buy.dairy.products=buy.dairy.products\_nowhere**  
 3 % of the individuals possess this category in the global population versus 10.71% of the individuals within cluster 2;  
 100 % individuals possessing this category belong to cluster 2
- buy.red.meat=buy.red.meat\_nowhere**  
 3 % of the individuals possess this category in the global population versus 10.71% of the individuals within cluster 2;  
 100 % individuals possessing this category belong to cluster 2
- buy.red.meat=buy.red.meat\_market**  
 3 % of the individuals possess this category in the global population versus 10.71% of the individuals within cluster 2;  
 100 % individuals possessing this category belong to cluster 2
- profession=noactif**  
 5 % of the individuals possess this category in the global population versus 14.29% of the individuals within cluster 2;  
 80 % individuals possessing this category belong to cluster 2



## Description of cluster 3 ( 1 / 3 )

The following modalities are meaningful for cluster 3 :

- buy.fruit.and.vegetables=buy.fruit.and.vegetables\_hard discount**  
 8 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 3;  
 75 % individuals possessing this category belong to cluster 3
- buy.eggs=buy.eggs\_hard discount**  
 9 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 3;  
 66.67 % individuals possessing this category belong to cluster 3
- buy.cheese=buy.cheese\_hard discount**  
 11 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 3;  
 54.55 % individuals possessing this category belong to cluster 3
- buy.chocolate=buy.chocolate\_hard discount**  
 13 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 3;  
 46.15 % individuals possessing this category belong to cluster 3
- buy.white.meat=buy.white.meat\_hard discount**  
 4 % of the individuals possess this category in the global population versus 66.67% of the individuals within cluster 3;  
 100 % individuals possessing this category belong to cluster 3



## Description of cluster 3 ( 2 / 3 )

The following modalities are meaningful for cluster 3 :

- **buy.dairy.products=buy.dairy.products\_hard discount**  
 16 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 3;  
 37.5 % individuals possessing this category belong to cluster 3
- **buy.red.meat=buy.red.meat\_hard discount**  
 5 % of the individuals possess this category in the global population versus 66.67% of the individuals within cluster 3;  
 80 % individuals possessing this category belong to cluster 3
- **price.unjustified.superiority=price.unjustified.superiority\_yes**  
 16 % of the individuals possess this category in the global population versus 83.33% of the individuals within cluster 3;  
 31.25 % individuals possessing this category belong to cluster 3
- **buy.fish=buy.fish\_hard discount**  
 2 % of the individuals possess this category in the global population versus 33.33% of the individuals within cluster 3;  
 100 % individuals possessing this category belong to cluster 3
- **errands.in.hard.discount=errands.in.hard.discount\_yes**  
 40 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 3;  
 15 % individuals possessing this category belong to cluster 3



How can the groups be described?

## Description of cluster 3 ( 3 / 3 )

The following modalities are meaningful for cluster 3 :

- **errands.in.market=errands.in.market\_no**  
49 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 3;  
12.24 % individuals possessing this category belong to cluster 3
- **buy.coffee.tea=buy.coffee.tea\_hard discount**  
10 % of the individuals possess this category in the global population versus 50% of the individuals within cluster 3;  
30 % individuals possessing this category belong to cluster 3



How can the groups be described?

## Description of cluster 4 ( 1 / 3 )

The following modalities are meaningful for cluster 4 :



**buy.fruit.and.vegetables=buy.fruit.and.vegetables\_supermarket**

3 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 4;

100 % individuals possessing this category belong to cluster 4



**buy.fish=buy.fish\_supermarket**

3 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 4;

100 % individuals possessing this category belong to cluster 4



**buy.eggs=buy.eggs\_supermarket**

4 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 4;

75 % individuals possessing this category belong to cluster 4



**buy.soft.drinks=buy.soft.drinks\_supermarket**

4 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 4;

75 % individuals possessing this category belong to cluster 4



**buy.dairy.products=buy.dairy.products\_supermarket**

5 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 4;

60 % individuals possessing this category belong to cluster 4



How can the groups be described?

## Description of cluster 4 ( 2 / 3 )

The following modalities are meaningful for cluster 4 :

- **buy.cheese=buy.cheese\_supermarket**  
 6 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 4;  
 50 % individuals possessing this category belong to cluster 4
- **buy.alcoholic.drinks=buy.alcoholic.drinks\_supermarket**  
 2 % of the individuals possess this category in the global population versus 66.67% of the individuals within cluster 4;  
 100 % individuals possessing this category belong to cluster 4
- **buy.red.meat=buy.red.meat\_supermarket**  
 3 % of the individuals possess this category in the global population versus 66.67% of the individuals within cluster 4;  
 66.67 % individuals possessing this category belong to cluster 4
- **buy.coffee.tea=buy.coffee.tea\_supermarket**  
 4 % of the individuals possess this category in the global population versus 66.67% of the individuals within cluster 4;  
 50 % individuals possessing this category belong to cluster 4
- **buy.white.meat=buy.white.meat\_supermarket**  
 4 % of the individuals possess this category in the global population versus 66.67% of the individuals within cluster 4;  
 50 % individuals possessing this category belong to cluster 4





How can the groups be described?

## Description of cluster 4 ( 3 / 3 )

The following modalities are meaningful for cluster 4 :

- **buy.chocolate=buy.chocolate\_supermarket**  
8 % of the individuals possess this category in the global population versus 66.67% of the individuals within cluster 4;  
25 % individuals possessing this category belong to cluster 4
- **errands.in.supermarket=errands.in.supermarket\_yes**  
29 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 4;  
10.34 % individuals possessing this category belong to cluster 4