



Statistical Analysis Report for Food Frequency Questionnaire (FFQ)

Generated by Data Analysis Team on April 04, 2025

Analysis Summary: Processed 4 statistical images with 4 successful analyses (100.0% success rate)

Analysis Categories: Descriptive (1), Categorical-Categorical (1), Categorical-Continuous (1), Continuous-Continuous (1)

Survey Questions Reference

Q1: How often do you consume 🍎 **fruits**?

Q2: How often do you eat 🥦 **vegetables**?

Q3: How often do you drink 🥤 **sugary beverages**?


Q4: How often do you eat 🍴 three or more meals (breakfast, lunch, dinner) per day?

Q5: How often do you eat 🍔 **fast food** or takeout?

Q6: How often do you consume 🌾 **whole grains**? (eg. whole-wheat flour, oatmeal, and brown rice)

Q7: How often do you eat 🍷 **deep-fried** food?

Q8: Do you consume  **alcohol**? If so, how frequently?

Q9: How often do you consume  **dairy products**? (e.g., yogurt, cheese, milk, butter)

Q10: Do you take  **nutritional supplements**? If so, how frequently?

Technical Summary

Descriptive (1)

Categorical-Categorical (1)

Categorical-Continuous (1)

Continuous-Continuous (1)

Technical-Summary

Technical Summary

Detailed technical information about the analysis

STRONG FINDINGS (Significant + Passed Quality Filters)

1. Strong Relationships between Categorical Variables:

- DOF filter (≥ 9.0)
- Cramér's V filter (≥ 0.1)
- Power filter (≥ 0.8)
- * Employment Status and City (Chi-square, $p=0.0000$)
- * Living Situation and City (Chi-square, $p=0.0005$)

2a. Significant Relationships between Categorical and Continuous Variables (Parametric):

- Power filter (≥ 0.5)
- Effect Size Cohen's d (≥ 0.3)
- Effect Size ϵ^2 (≥ 0.03)
- Effect Size Partial η^2 (≥ 0.03)
- Effect Size CLES (diff ≥ 0.1)
- * Gender affects Q10 (Mann-Whitney U, $p=0.0317$)
- * Living Situation affects Q4 (Kruskal-Wallis, $p=0.0278$)
- * Living Situation affects Q9 (Kruskal-Wallis, $p=0.0410$)
- * Living Situation affects Q10 (Kruskal-Wallis, $p=0.0129$)
- * Physical Activity Level affects Q3 (Kruskal-Wallis, $p=0.0153$)
- * Physical Activity Level affects Q8 (Kruskal-Wallis, $p=0.0388$)

- * Physical Activity Level affects Q9 (Kruskal-Wallis, $p=0.0294$)
- * City affects Q8 (Kruskal-Wallis, $p=0.0499$)
- * City affects Q10 (Kruskal-Wallis, $p=0.0389$)

2b. Strong Relationships between Categorical and Continuous Variables (Non-parametric):

- Power filter (≥ 0.5)
- Effect Size ϵ^2 (≥ 0.02)
- Effect Size CLES (diff ≥ 0.05)
- * Gender affects Q10 (Mann-Whitney U, $p=0.0317$)

3a. Strong Parametric Correlations between Continuous Variables:

- Correlation Strength filter ($|r| \geq 0.55$)
- Power filter (≥ 0.6)
- * Q1 and Q2 ($r=0.6581$, $p=0.0000$)
- * Q5 and Q7 ($r=0.6231$, $p=0.0000$)

3b. Significant Non-parametric Correlations between Continuous Variables:

- Correlation Strength filter ($|r| \geq 0.55$)
- Power filter (≥ 0.6)
- * Q1 and Q2 ($\rho=0.6704$, $p=0.0000$)
- * Q3 and Q5 ($\rho=0.5700$, $p=0.0000$)
- * Q5 and Q7 ($\rho=0.6299$, $p=0.0000$)

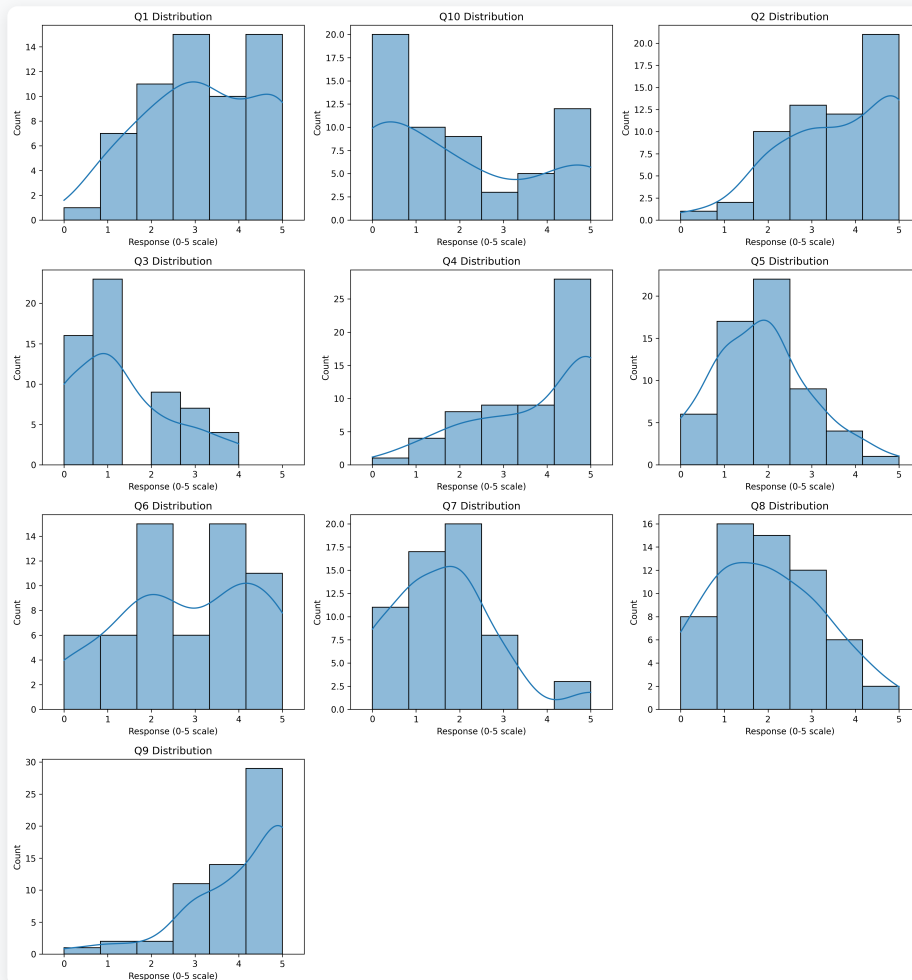
Descriptive

Descriptive (1)

1 analyses 

Image 1: question_distributions.png

90.0% Confidence



Resize

histograms Visualization

Key Findings:

- Consumption of fruits and vegetables is frequent, suggesting healthy eating habits
- Avoidance of sugary beverages is common, contributing to a healthy lifestyle
- High frequency of eating three or more meals per day indicates regular meal patterns

- Moderate distribution in fast food and deep-fried food consumption, balanced approach observed
- Prevalence of whole grains and dairy products consumption, preference for nutritious choices

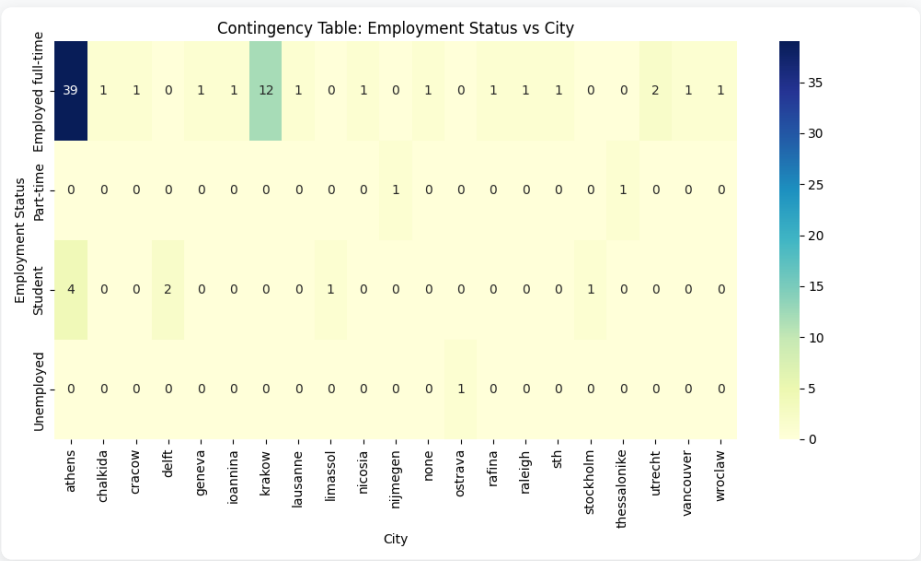
Categorical-Categorical

Categorical-Categorical (1)

1 analyses 

Image 1: Employment
Status_City_contingency.png

90.0%
Confidence



Resize

heatmap Visualization

Key Findings:

- Athens shows a significant concentration of full-time employed individuals
- Chalkida and Delft have noticeable student populations
- Geneva and Stockholm display a more diverse employment status distribution

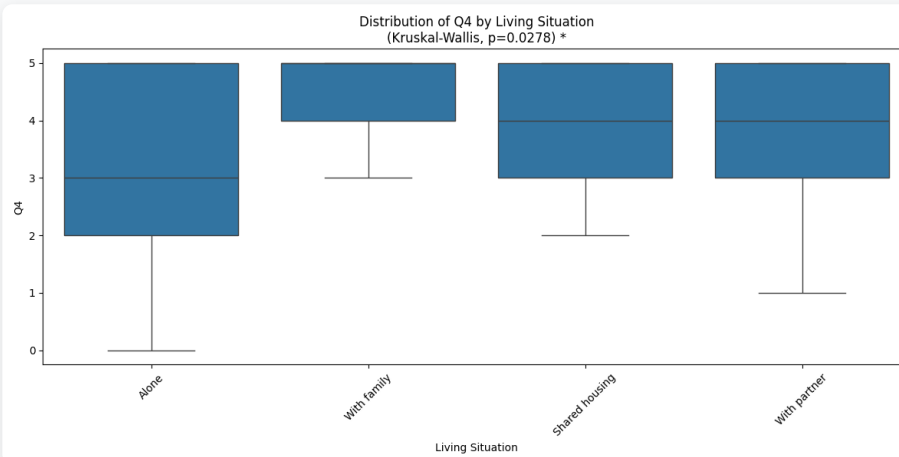
Categorical-Continuous

Categorical-Continuous (1)

1 analyses 

Image 1: Living Situation_Q4_boxplot.png

90.0% Confidence



Resize

box plot Visualization

Key Findings:

- Living arrangements significantly impact meal frequency
- Individuals living alone tend to have the most varied meal frequency
- Individuals living with family or a partner report more consistent meal patterns
- Kruskal-Wallis test confirms statistically significant differences

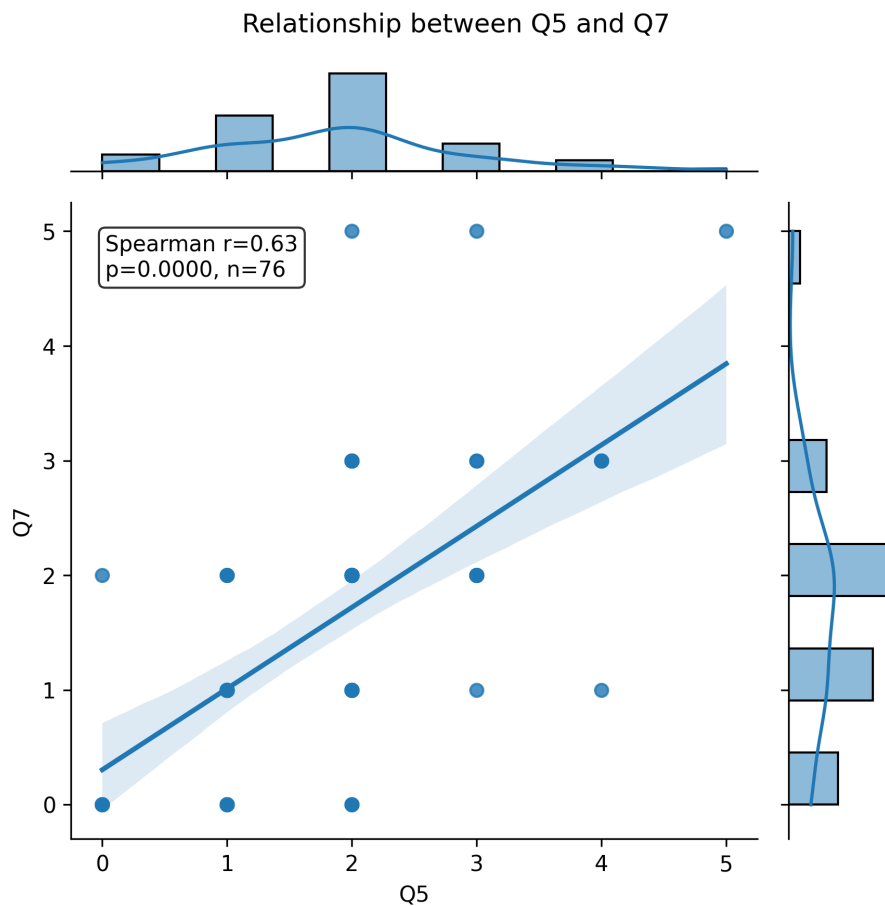
Continuous-Continuous

Continuous-Continuous (1)

1 analyses 

Image 1: Q5_Q7_jointplot.png

90.0% Confidence



Resize

scatter plot Visualization

Key Findings:

- Individuals who frequently consume fast food or takeout are likely to consume deep-fried food more often
- Strong positive correlation between fast food consumption and deep-fried food intake

This report was automatically generated on April 04, 2025. The analysis was performed using advanced computer vision and natural language processing techniques.

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