Data Scientist Tax (f/m)

Pre-Interview Assignment

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Assignment Overview

► Thank you for your interest in this position

► Here, you receive a dataset and a couple of questions which we would like you to answer by a data analysis approach

► You are free in the approach and tools you employ

► The next slide consists of a dataset description followed by the questions we would like you to answer

► The emphasis is on the approach you follow, please be prepared to explain your approach and actions taken

► Visualizations, graphs or sketches that help in answering are highly welcome

► The whole assignment execution should take you at maximum 3 hours

► Please send your results at least 24 hours before the interview

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The Dataset from DESTATIS

► Dataset code: 12711-0002

► Migration between Germany and foreing countries: years, European Union states, sex

► Available time period: 1974 to 2014

► Note: The data are provided as an Excel sheet, however that does not imply that analyses are required to be executed in Excel

Table structure

12711-0002	Migration between Germany and foreign countries: years, European Union states, sex
Available time period:	1974 to 2014

If you do not wish to make a selection, you may directly start the value retrieval.

Position	Code	Content	Attributes
☐	12711	Migration statistics	
☐	JAHR	Year	Select
☐	STAEU1	European Union states (27)	Select
☐	GES	└ Sex (2)	Select
☐	BEV029	└ Arrivals from foreign countries	
☐	BEV011	└ Departures to foreign countries	
↵			

Source: destatis.de

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Questions

1. What is the general content of the dataset?

2. Is there an increase in the number of departures across years?

3. In which year and country was the highest number of departures?

4. Which country shows the most arrivals and in which year?

5. What total numbers for departures and arrivals are to be expected for 2015 or 2016 for each country?

6. Is there a significant difference between the numbers of female and male departures across all countries in the years 2013 and 2014, respectively?

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