

MediaMarktSaturn

Case Study Data Engineering / Analytics

Please, process the short case study described below with the tools of your choice.

The only basic requirement is that data is prepared in SQL database. It is up to you, which database and which visualization tool is used. The task implementation should not take longer than 60 minutes to complete.

Case: data preparation and visualization

The mayor of a Bavarian university town would like to find out about the current status and development of corona infections in her city. To do this, she asks you for 2 overviews / reports:

- 1) Overview of the accumulated infections and the accumulated number of recovered people from March 2020 until today on a monthly basis for Bavaria
- 2) Development of deaths per age group in this period in Bavaria
- 3) Correlation of weather and infection rate in Bavaria
- 4) Prediction for next 5 years of infection based on the past weather data in Bavaria

The publicly available data of the Robert Koch Institute are available to you as the data basis for the analysis. Regarding weather data, it can be gathered from any open API of your choice, for example <https://openweathermap.org/api> . Please select a suitable graphic visualization for the analyzes (line chart, bar chart, ...).

What conclusions should the mayor draw from the prepared figures / reports?

We wish you a lot of fun and success while working on the task.

Thank you very much for your commitment!

IMPORTANT:

Please, push all the script files to GitHub and share the link with us.