





















# **GDPR Data analysis** with Power BI

Analyzing GDPR Fines 2018 – 2020 Data with Power BI



August 14, 2022













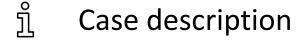






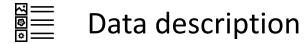


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# **Case description**

### **GDPR**

The **General Data Protection Regulation** (EU) (**GDPR**) is a regulation in EU law on data protection and privacy in the European Union (EU) and the European Economic Area (EEA).

#### Data

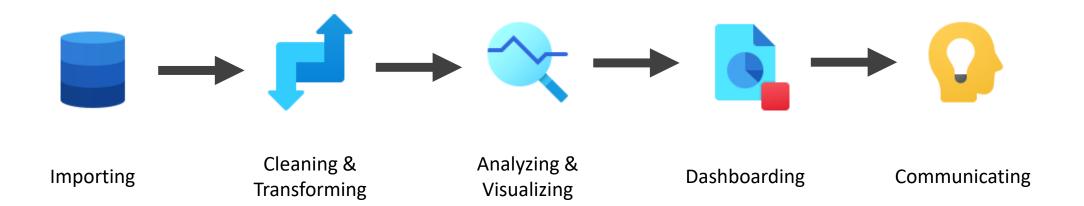
The data includes fines that have been published on the PrivacyAffairs website as of 23.01.2021. It contains the article(s) breached, the type of violation, the fine amount, which country the infraction took place and the authority that handed the fine. Moreover, the organization and source document are also included.

### **Motivation**

Understanding the these fines help prevent future violations and supports the training of the data users to adhere to the GDPR.



# Data analytics pipeline





















### Questions

### **Examples of question for insight**

- Which articles were violated the most?
- What are the most frequent reasons for violations?
- How do fining amounts change over time?
- Which countries have the highest amount of total fine?

### **Examples of question for design**

- Which dimensions should the data be separated?
- Should it be a functional or Explorative dashboard?





# **Data description**

#### **Data source**

The data is downloaded from Kaggle, the original page can be accessed by the following link: **GDPR Fines 2018-2020 Updated 23.01.2021** 

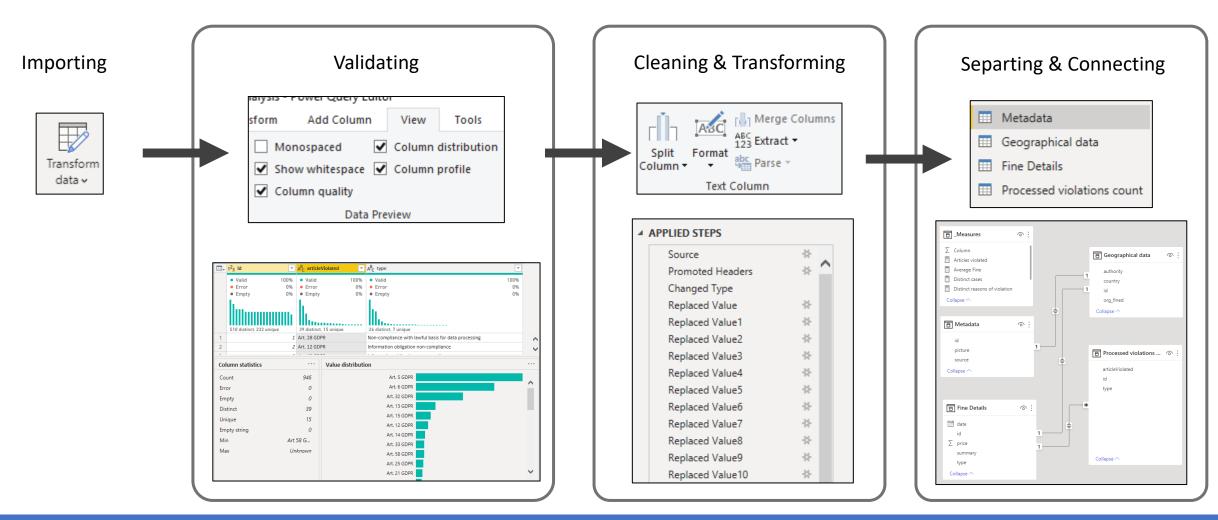
### **Data description**

The set contains 11 columns and 510 rows, details are given below

id	Index column, numeric	date	Date when the case took place, date
picture	Links to picture of the page, text	org_fined	Names of the violating organization, text
country	Country names, text	articleViolated	Information of the violated articles, text
price	Fine amount, numeric	type	Reasons of the fine, text
authority	Athority issuing the fine, text	source	Links to the original article, text
summary	Summary of the contents , text		

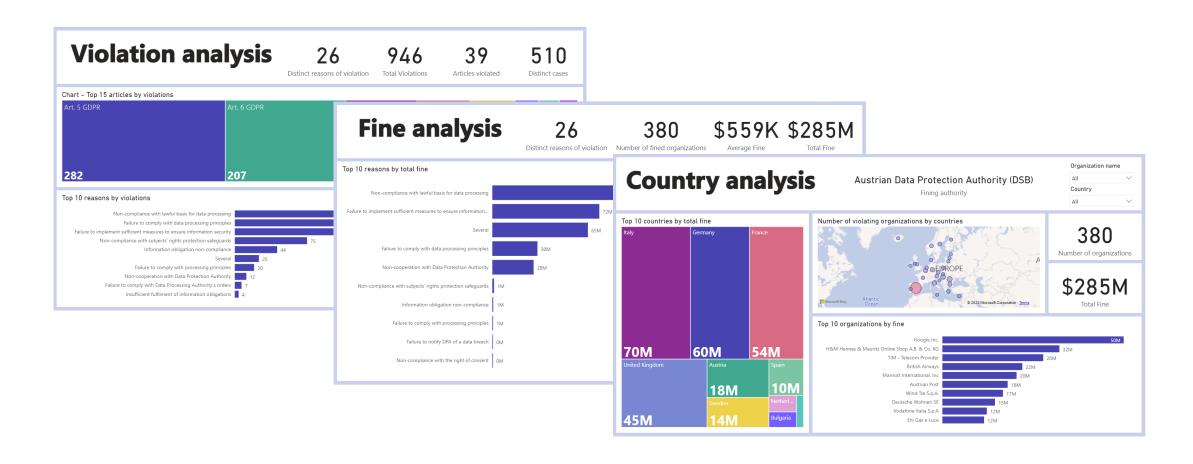


### **Data transformation**





# **Exploratory Data Analysis**





# Dashboard design

#### **Factors to consider**

Who is the audience? – Data analyst team

• What do they need? – **Identify frequent violations** 

How can a dashboard help? – Visualizations and

interactions

### **Dashboard choice**

Should it be a functional or explorative dashboard?

- Better be a balance between the two















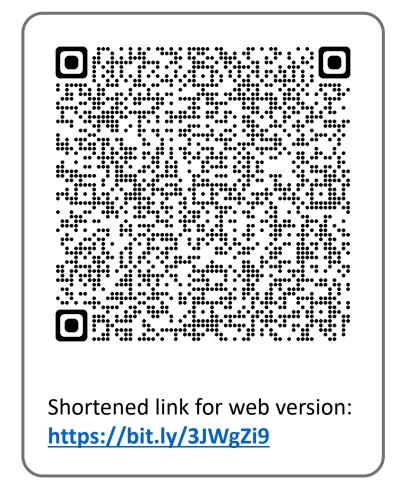








# Final deliverables





QR code for mobile dashboard









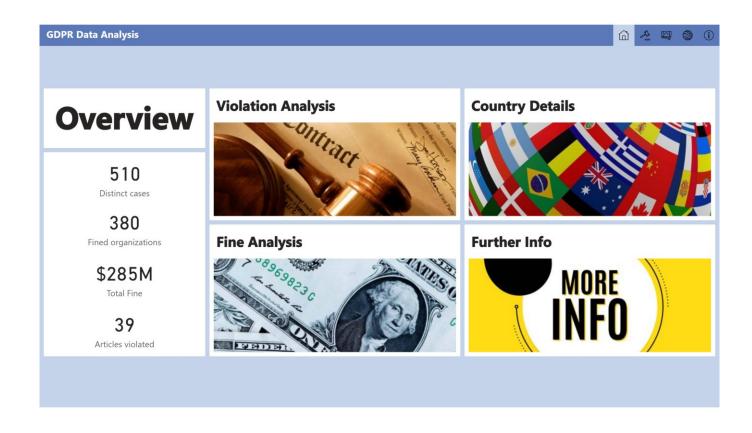








### Final deliverables





Web version

Mobile version



# **Executive summary**

### **Objectives**

- Analyze GDPR data to understand the violating and fining patterns
- Importing, cleaning, transforming, visualizing and carrying out simple data analysis
- Generate a dashboard for exploration using Power
  BI

### Results

- A dashboard in Power BI that is functional on both big screen and mobile
- Facilitate and encourage user engagement

