Case Study 3: UK Inflation Data from 1989 to 2022

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Introduction

Choosing your own Case Study Path helps you to be dependent on your own study. I chose UK Inflation Data from 1989 to 2023. This case study will investigate which year has the highest and lowest inflation in the United Kingdom. In which quarter does the inflation occur in highest and lowest.

By the end of this lesson, the learner goal is to have a portfolio-ready case study. To make sure you are set up for success, it is recommended that you complete one of the more structured case studies first. In addition, be sure to read the included scenario and follow the Case Study Roadmap, which details the steps of the data analysis process: **ask**, **prepare**, **process**, **analyze**, **share**, and **act.**

Scenario

You are a junior data analyst working for a business intelligence consultant. You have been at your job for six months, and your boss feels you are ready for more responsibility. He has asked you to lead a project for an UK Inflation Data from 1989 to 2022 — this will involve everything from defining the business task all the way through presenting your data-driven recommendations. You will choose the topic, ask the right questions, identify a fresh dataset and ensure its integrity, conduct analysis, create compelling data visualizations, and prepare a presentation.

# About the Dataset

ABOUT THE DATASET

CPIH index is a version of the Consumer Price Index which has been modified to include costs related to housing, mainly rent and mortgage payments. It does not take into account the cost of housing.

This data set can be used in combination with other UK datasets to examine potential correlations between inflation and other social and economic indicators.

Usage of this data is covered by the OGL 3.0. The datasets contain 2 files which are divided into Year and Quarter.

Note: After I carefully reviewed the dataset. The dataset ranges from 1989 to 2023. Also, i focused on the dataset in Year and Quarter only. This dataset was originally from Kaggle

Findings

Inflation value in United Kingdom per year
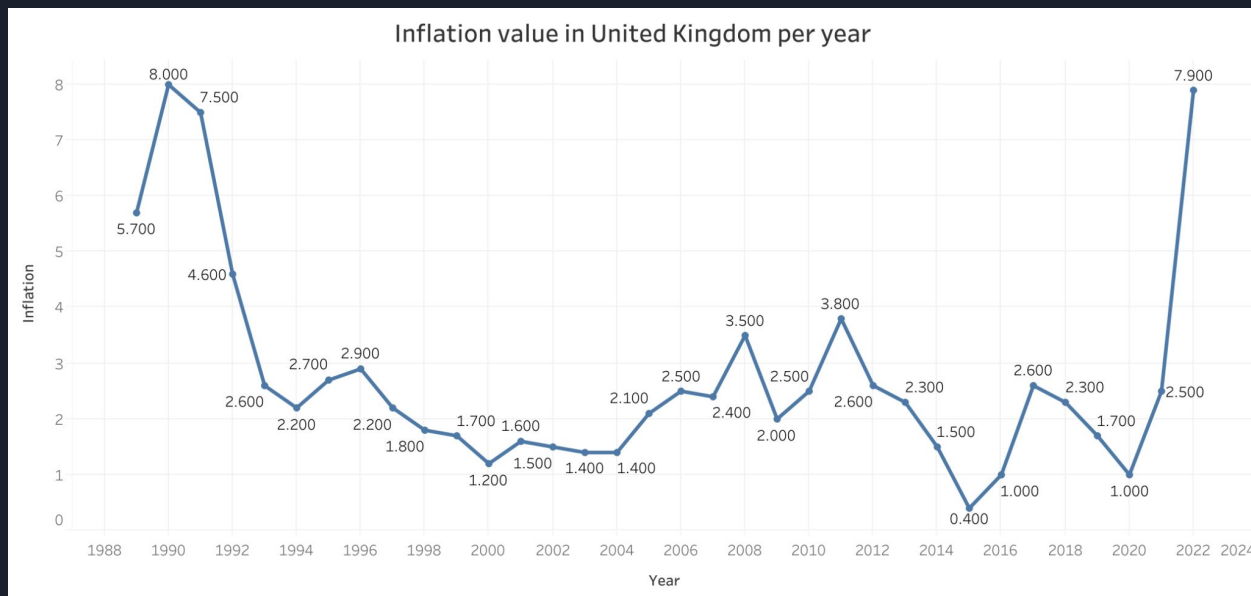
It was recorded that in the year 1990 the highest inflation value in the UK by 8% while in 2015 has the lowest recorded value 0.4 %.
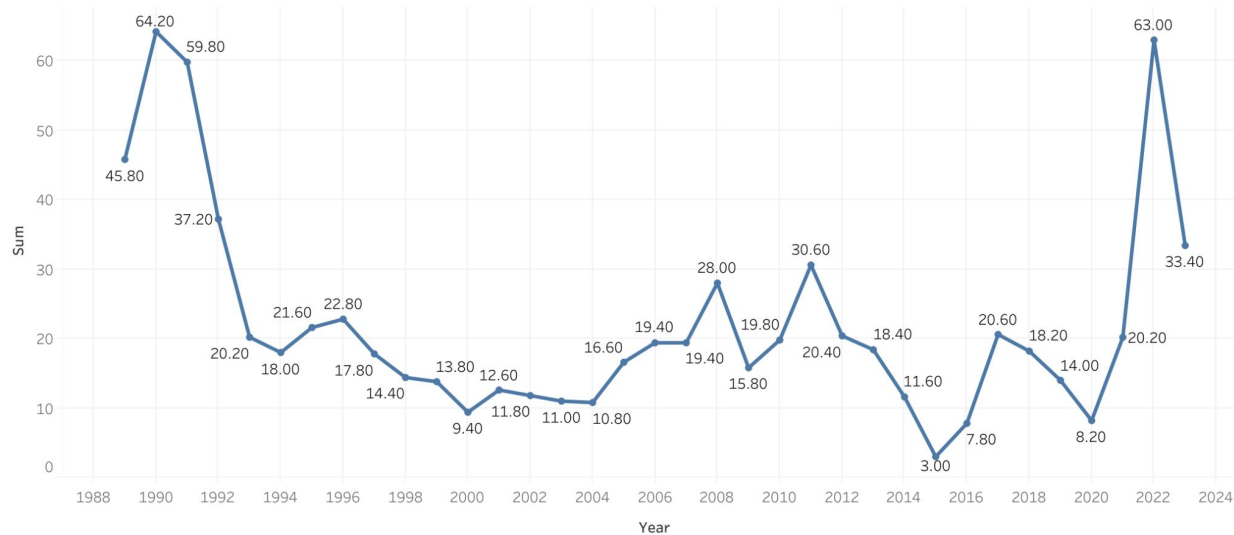
Inflation Value per Quarter in UK
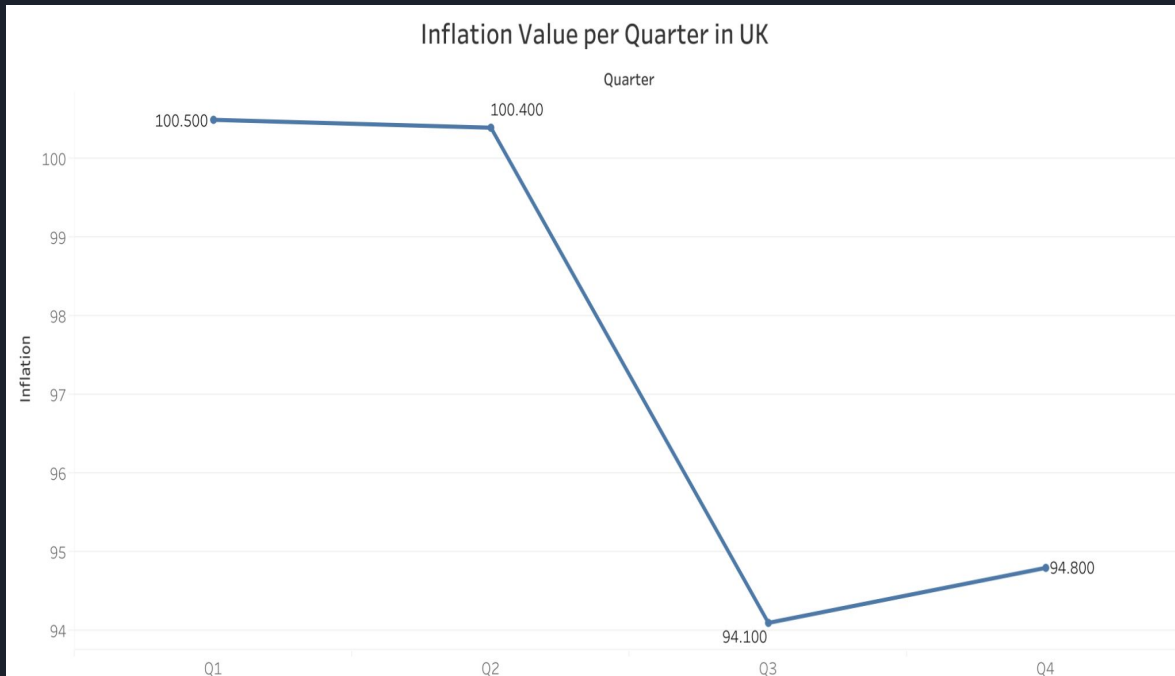
In this chart, it displays the total inflation value for each quarter of the year.

(Example; all Q1 from 1989 to 2022 is display in a single point)

Sum of Inflation Values per year

This might not the problem that we were trying to solve, but this is also relevant to the problem.

This is the sum of all inflation value occur in each year;

You might be confusing, but the first chart is the percentage only.

Conclusion

- In year 1990, the Consumer Price Index (CPI) in United Kingdom is so high that the rent and mortgage payments. Inflation varies depends on the flow of the market, if the basic needs reached high cost. The inflation will also increase.
- In year 2015 recorded 0.4% of inflation value. Therefore, this year the country's rent and mortgage payment are not expensive. The basic needs are not expensive too. This is why the inflation remains decrease.

  Also, it shows that in every 1st quarter of the year reaches high inflation value. While in every 3rd quarter reaches low inflation value.

- This will also help stakeholders to examine potential correlations between inflation and other social and economical indicators.