**Ethical Implications of Data Wrangling**

**Milestone-5: Merging the Data and storing in a Database/Visualizing Data**

In this milestone, we focused on combining and visualizing data related to university rankings, country-specific information, and indices of freedom among nations. An inner join was performed on the country field to create the combined database consisting of the records from the university\_scores, world\_countries and freedom\_indices tables. The resulting database made possible several types of visualizations.

In terms of ethical implications, we adhered to a responsible data handling approach. The data used was sourced from publicly available sources (Wikipedia, public APIs, Kaggle dataset), which aligns with ethical standards and reduces privacy concerns. The decision to clean and standardize the data helped enhance its reliability while ensuring accurate comparisons between countries. Our analysis avoided issues related to unauthorized data usage and ensured compliance with privacy regulations. The process of merging the data also played a critical role. All the actions correspond with the ethical aspects of data analysis, which include transparency and accountability.

The modifications made, including joining the data and computing mean values, were done for the purpose of improving the analysis. The only concern is that some countries might be missing in the analysis as a result of unavailability of some data and resulting a less comprehensive analysis. We overcame this problem by openly stating such limitations and especially considering the areas where data is well available.

During data cleaning and transformation, we assumed that this dataset has no errors. But it is still important to assess the trustworthiness and validity of these sources to prevent misinformation from spreading.