**S&P 500 Companies Data**

The S&P 500 companies data provides a detailed overview of the companies listed in the S&P 500 index, including their stock ticker symbols, names, sectors, sub-industries, headquarters locations, dates of addition to the index, CIK numbers, and founding years. This data can be used for various analyses, including sectoral distribution, geographical distribution, historical trends, and company demographics.

**Data Structure**

The table contains 503 rows and 8 columns. Each row represents an S&P 500 company, and each column provides specific information about the company.

**Columns Description**

1. **Symbol**
   * **Description:** The stock ticker symbol for the company.
   * **Data Type:** object
   * **Count:** 503
   * **Unique Values:** 503
2. **Security**
   * **Description:** The full name of the company.
   * **Data Type:** object
   * **Count:** 503
   * **Unique Values:** 503
3. **GICS Sector**
   * **Description:** The Global Industry Classification Standard (GICS) sector in which the company operates.
   * **Data Type:** object
   * **Count:** 503
   * **Unique Values:** 11
4. **GICS Sub-Industry**
   * **Description:** The specific sub-industry under the GICS sector.
   * **Data Type:** object
   * **Count:** 503
   * **Unique Values:** 127
5. **Headquarters Location**
   * **Description:** The location of the company's headquarters.
   * **Data Type:** object
   * **Count:** 503
   * **Unique Values:** 252
6. **Date added**
   * **Description:** The date the company was first added to the S&P 500 index.
   * **Data Type:** object
   * **Count:** 503
   * **Unique Values:** 377
7. **CIK**
   * **Description:** The Central Index Key (CIK) assigned by the SEC.
   * **Data Type:** int64
   * **Count:** 503
   * **Unique Values:** Not applicable (continuous numeric values)
8. **Founded**
   * **Description:** The year the company was founded. Some entries may include additional context (e.g., founding dates for companies formed from mergers).
   * **Data Type:** object
   * **Count:** 503
   * **Unique Values:** 199