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In [4]: import pandas as pd

In [6]: df = pd.read_csv('ranking .csv')

In [13]: year2022_set = set(df.iloc[:, 0])
year2023_set = set(df.iloc[:, 1])

In [16]: union_set = year2022_set.union(year2023_set)
intersection_set = year2022_set.intersection(year2023_set)
difference_set1 = year2022_set.difference(year2023_set)
difference_set2 = year2023_set.difference(year2022_set)

In [17]: print("聯集:", union_set)
print("交集:", intersection_set)
print("第一欄減去第二欄的差集:", difference_set1)
print("第二欄減去第一欄的差集:", difference_set2)

聯集: {'Johnson & Johnson', 'Adobe Inc.', 'Comcast Corporation\n\n', 'Meta Platforms, Inc. (Facebook)', 'Nestlé S. A.', 'Alibaba Group Holding Ltd.', 'Procter & Gamble Co.', 'UnitedHealth Group Incorporated', 'Tencent Holdings Ltd.', 'Novartis AG', 'Tesla, Inc.', 'Samsung Electronics Co., Ltd.', 'Microsoft Corporation', 'Merck & Co., Inc.', 'Taiwan Semiconductor Manufacturing Co., Ltd.', 'Saudi Aramco', 'Home Depot, Inc.', 'JPMorgan Chase & Co.', 'Mastercard Incorporated', 'Intel Corporation', 'Berkshire Hathaway Inc.', 'Alphabet Inc. (Google)', 'Apple Inc.', 'Abbott Laboratories', 'Walt Disney Co.', 'Visa Inc.', 'Comcast Corporation', 'Berkshire Hathaway Inc.\n', 'Amazon.com Inc.', 'Bank of America Corp.', 'Walmart Inc.', 'Toyota Motor Corporation'}
交集: {'Johnson & Johnson', 'Adobe Inc.', 'Meta Platforms, Inc. (Facebook)', 'Nestlé S.A.', 'Alibaba Group Holding Ltd.', 'Procter & Gamble Co.', 'UnitedHealth Group Incorporated', 'Tencent Holdings Ltd.', 'Novartis AG', 'Tesla, Inc.', 'Samsung Electronics Co., Ltd.', 'Microsoft Corporation', 'Merck & Co., Inc.', 'Taiwan Semiconductor Manufacturing Co., Ltd.', 'Saudi Aramco', 'Home Depot, Inc.', 'JPMorgan Chase & Co.', 'Mastercard Incorporated', 'Intel Corporation', 'Alphabet Inc. (Google)', 'Apple Inc.', 'Abbott Laboratories', 'Walt Disney Co.', 'Visa Inc.', 'Amazon.com Inc.', 'Bank of America Corp.', 'Walmart Inc.', 'Toyota Motor Corporation'}
第一欄減去第二欄的差集: {'Berkshire Hathaway Inc.', 'Comcast Corporation'}
第二欄減去第一欄的差集: {'Comcast Corporation\n\n', 'Berkshire Hathaway Inc.\n'}

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我選擇分析的資料是比較2022年和2023年全球前50名的公司。在此次分析中，聯集所代表的是2022和2023都有入圍的公司，交集所代表的是2022和2023共有哪些公司入圍、差集分別代表只有2022入圍2023就掉出前50名和2023新晉升為前50名的公司。