



EPPS 6354 Information Management

Database Project Proposal
Presentation

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Topic

Topic



U.S. Trade with China and related U.S. Multinational Corporations (MNCs) Database



Database Purpose

Database Purpose



- ▶ Aims to serve people interested in U.S.-China trade relations in the 21st century.
- ▶ People could utilize this dataset to explore how U.S.-China trade relations change, the connection between U.S.-China trade and the GDP change of the two countries, and how U.S.-China trade relations affect U.S. multinational corporations (MNCs).



Introduction

Introduction



U.S.-China Trade

- ▶ 20th century: trade relation started in 1971. The trade volume began to grow since 1979.
- ▶ In 2001, China's entry into the World Trade Organization (WTO) changed China's economy to an export-driven pattern (Wang 2013).
- ▶ 1st decade of the 21st century: U.S.-China trade relations have expanded rapidly. The U.S. has become the largest destination for China's exports since 2000 (Shen et al. 2020).
- ▶ In 2010, China became the 2nd largest economy according to GDP and is regarded as the biggest competitor and challenger by the U.S.
- ▶ The 2018 U.S.-China trade war has worsened U.S.-China trade relations.
- ▶ Post pandemic period: trade volume begins to rebound.

Introduction



MNCs and Global Value Chains (GVCs)

- ▶ Since the 1980s, with the development of globalization, multinational corporations (MNCs) have begun allocating resources and organizing production activity worldwide (Cui Liu, 2019: p. xvii), global value chains (GVCs) arises (The World Bank, 2019).
- ▶ GVCs account for almost 50% of global trade today.
- ▶ However, state governments might raise tariffs or impose nontariff barriers (NTBs) to protect domestic firms while the MNCs highly related to GVCs are the direct sufferers (Kenton 2020).



Database Content

Database Content

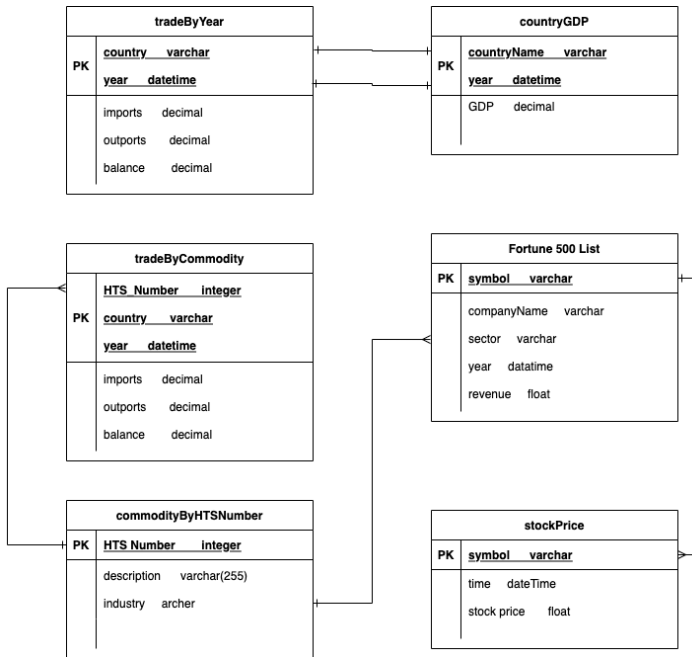


This database includes four categories of data:

1. The U.S.-China trade data in the 21st century, including the imports, exports, and trade balance, by commodity and general;
2. The GDP of U.S. and China in the 21st century;
3. Fortune 500 company list – their company name, industry, revenue;
4. The stock data of fortune 500 companies.



Schema



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Method

Method



- ▶ The database is relational database (SQL database).
- ▶ PostgreSQL will be utilized to accomplish the database.



References

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3. Kenton, Will. October 06, 2020. Anti-Dumping Duty.
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4. Shen, Guobing. Wang, Peijie. Xu, Yuanhan. 2021. Trade destruction and deflection effects of US-China trade frictions on China's tariff-targeted Products. The World Economy. 44:2076–2106. <https://doi.org/10.1111/twec.13067>.
5. The World Bank. 2019. World Development Report 2020: Trading for development in the Age of Global Value Chains.
6. Wang, Dong. June 16, 2013. U.S.-China Trade, 1971-2012: Insights into the U.S.-China. The Asian-Pacific Journal. Volume 11, Issue 24, Number 4. Article ID 3958.



Data Resources

1. Fortune 500 Company Revenue Data. Fortune.
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2. Taiwan Capitalization Weighted Stock Index (TSEC weighted index (TWII). 2022.
<https://finance.yahoo.com/quote/>
3. The World Bank. World Development Indicators – GDP.
<https://databank.worldbank.org/reports.aspx?source=2series=NY.GDP.MKTP.CDcountry=>.
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4. U.S. Census Bureau. 2022. U.S. International Trade Data – Trade in Goods with China.
<https://www.census.gov/foreign-trade/balance/c5700.html>. (Accessed Feb. 24, 2022)
5. United States International Trade Commission (USITC). Trade Data – General Imports, Total Exports, Trade Balance. <https://dataweb.usitc.gov>. (Accessed Mar. 9, 2022)