

SQL Workshop Final Review

UC Davis DSI

2018

1 Review

These questions are meant to be more open ended. Challenge yourself by answering each one in two different ways. This requires three types of knowledge: knowledge of the data / domain (finance), knowledge of the tool (SQL), and critical thinking. This is the next step beyond following instructions.

1. What are the most profitable companies?
2. What are the most valuable sectors?

2 Joins

From Wikipedia:

The Standard Industrial Classification (SIC) is a system for classifying industries by a four-digit code. Established in the United States in 1937, it is used by government agencies to classify industry areas.

Single Joins

1. Select the ticker, company name, and SIC code with corresponding description for companies that have SIC codes.
2. Select the ticker, company name, and SIC code with corresponding description (possibly NULL) for all companies in the `company_info` table.
3. Which 4 digit SIC codes have the most companies?
4. Modify the query above to only return SIC codes with at least 5 companies.

Multiple Joins

5. Use inner joins to produce a table with columns for company name, state, SIC code, and SIC description.
6. Modify the above query to produce a table with columns for state, SIC code, SIC description, and count of companies located in that state with that SIC code.
7. Modify the query above to only return rows with a count of at least 2 companies.

3 Putting It All Together

1. Did the Brexit vote affect share prices for commercial banks in the United States? How?
Use Google Sheets to show this with a plot.
2. Based on the information in the database, what are the dominant industries in New York? How does New York compare to other states?