

SQL Workshop Day 1

UC Davis DSI

2018

1 Selecting and Sorting

1. How many tables are in the database?
2. Select all columns in the `company_info` table.
3. Which table has the most rows? The fewest rows?
4. Write a query so that the columns in `financial_ratios` table appear in alphabetical order.
5. Which company has the least expensive stock in the `financial_ratios` table?
6. Which company has the most expensive stock in the `financial_ratios` table?
7. How many different stocks do we have daily share prices for?
8. How many different days do we have daily share prices for?
9. Which 5 states have the highest population in 2017? lowest?
10. How many different 4 digit industry sector codes are possible?
11. How many different industry sectors appear in the company information?
12. What are all the different prices that each company closed at?
13. Which states (in this database) have companies in them?
14. How many companies are in each of the different tables? What can you conclude?

2 Filtering and Calculations

1. Which company is located in Oregon?
2. Which companies have a price-earnings ratio below 7.0?
3. Which companies have an asset turnover (revenue/assets) greater than 5.0?
4. Which states had a 2010 population of at least 10,000,000?
5. How many days did Apple's (AAPL) share price close above 150?
6. Which New York companies are not located in New York city?
7. Which California companies are located in Irvine, San Jose, or Thousand Oaks?
8. Which companies have assets of more than 1 trillion dollars or are in the software industry?
9. Which division has SIC codes that mention the word "tree"?
10. Which companies have web pages that do not have ".com" in the address?
11. Which companies are classified as construction (SIC codes 1500 – 1799)?
12. Which companies are in Silicon Valley, which is approximately bounded by the box (-122.996, 38.092) to (-121.479, 37.039)?
13. Are any rows in the daily share prices table missing the opening or closing price?
14. Are any states missing population estimates?
15. How many California cities have a company whose address is on a "street" or "road"?