2) What are the most profitable sectors and industries each year?

-- This SQL code answers question 2 by calculating the total and average price change for each economic sector and industry within the S&P 500 index, between the years 2018 and 2022.

SELECT

    Year,

    Sector,

    Industry,

    FORMAT(SUM(Close - Open), 2) AS Total\_Price\_Change,

    FORMAT(AVG(Close - Open), 2) AS Average\_Price\_Change

FROM sp500\_prices.sp500\_prices

WHERE

    Year BETWEEN 2018 AND 2022

GROUP BY

    Year,

    Sector,

    Industry

ORDER BY

    Year,

    Total\_Price\_Change DESC;

This SQL code extracts the "Year", "Sector", and "Industry" columns from the "sp500\_prices" dataset and calculates the total and average price change for each sector and industry using the SUM() and AVG() functions, respectively.

The query groups the results by year, sector, and industry, and sorts them by year and total price change in descending order. The FORMAT() function formats the "Total\_Price\_Change" and "Average\_Price\_Change" columns to two decimal places.

By presenting the profitability of each sector and industry in each year, this SQL code provides a clear and structured method to identify the most lucrative areas of investment. This information is instrumental in answering question 2 of the project and can assist investors in making well-informed financial decisions.