

Assignment 4

Question 1

The 'info' table is a table containing company information for stocks.

Write an SQL statement to output the number of stocks that do not contain "[www](#)." in their website address.

Column Information:

- Webpage: website address

Question 2

The 'player_info' table contains information about players belonging to the National Basketball Association (NBA).

Write an SQL statement to output the average birth year of currently active players.

Column Information:

- Birthdate: birth year
- Activity Status: rosterstatus

Result table format: rosterstatus, avg_year

Question 3

The 'sector' table contains industry classification information for companies.

The 'close_price' table contains price information for stocks.

The 'dividend_adjustment' table contains dividend adjustment factors for stocks.

Write an SQL statement to output the daily average adjusted price for stocks belonging to each sector.

Adjusted price can be calculated by multiplying the 'priceclose' column in 'close_price.csv' with the 'divadjfactor' column in 'dividend_adjustment.csv'.

Note: To correctly multiply the adjustment factor, you need to use the price corresponding to the pricingdate in 'close_price.csv' and the divadjfactor located between the fromdate and todate in 'dividend_adjustment.csv'.

Each stock belongs to only one sector at any given time, but there can be changes in the sector it belongs to.

The listingid is the same as the tradingitemid.

The sector column represents the sector to which each listingid belongs.

The startdate and enddate represent the time range when each listingid belongs to the corresponding sector.

Result table format: sector, pricingdate, adj_priceclose

Question 4

Using the results from Q3, write an SQL statement to output the 'status' column that displays "Above sector average" if the daily adjusted price of each stock is greater than the daily average adjusted price of its sector, and "Below sector average" if it is smaller.

Result table format: Tradingitemid, pricingdate, adj_priceclose, status

Note: Same considerations as in Q3.