MIS 2100

SQL Assignment

Instructions: Write the queries specified below in SQL Server. Use ANSI standard SQL. For each query, copy and paste the SQL code and up to 10 lines of the result into a word document. Then submit the word document via Canvas.

1. List all columns and all rows from the CompanyInformation table.
2. List all columns and all rows from the StockData table.
3. List all the industry names in the CompanyInformation table. Show each industry only once.
4. List the TickerSymbol, Industry, TradeDate and the Volume columns from the StockData table. List all rows.
5. List the TickerSymbol, Industry, TradeDate and the Volume columns from the StockData table. List only the rows that have a volume of more than thirty million shares traded.
6. List the TickerSymbol, Industry, TradeDate and the Volume columns from the StockData table. Show only the rows that have a volume of more than thirty million shares traded. Arrange the answer in TickerSymbol order. This means for example that British Petroleum should appear before Sunoco.
7. List the TickerSymbol, Industry, TradeDate, the opening stock price and the closing stock price. List only those trading days that occurred in the year 2011. Arrange the answer in order of the trade dates, which means that for a given stock, trading days should appear in chronological order.
8. List the TickerSymbol, Industry, TradeDate, the opening stock price and the closing stock price. List only those trading days that occurred in the year 2011. Arrange the answer in order of the industry, the ticker symbol, and then by the trade dates. Please use "BETWEEN" for this answer.
9. List the TickerSymbol, Industry, TradeDate, the opening stock price and the closing stock price. List only stocks that include the word "oil" in the industry description.
10. List the TickerSymbol, Industry, TradeDate, the opening stock price and the closing stock price. List only stocks that do not include the word "oil" in the industry description.
11. List the TickerSymbol, TradeDate and the closing stock price. List only Microsoft tuples that occurred between January 1, 2000 and June 1, 2011. Arrange the answer in order of the ticker symbol, trade date, and then closing price.
12. List the TickerSymbol, Industry, TradeDate, the opening price and the closing stock price. List only the ‘BP’ and ‘XOM’ ticker symbols. Arrange the answer in order of the ticker symbol, Industry and the trade dates.
13. Return all attributes for stocks that have been traded in the month of June in 2010. List the trade date in descending order.
14. List the trade dates and low stock prices of all stocks that were traded in 2011. List the trade dates in ascending order.
15. List the trade dates, stock highs and stock lows of all stocks that either had a stock high over 130 dollars and were traded before December 31st, 2008, or stocks that were traded after December 31st 2010 and had a stock low below 5 dollars. List the stock highs and lows in descending order.
16. List the closing prices in descending order of all the closing stock prices that were below 10 dollars and were traded before January 1st, 2007.
17. List the number of stocks that have an opening price of 70 dollars and were traded in 2008. Call it NumberOfOpeningPricesOf70In2008.
18. Look for missing data by listing any rows in StockData that contain nulls.
19. For all stock transactions list the ticker symbol, industry, trade date, and company name.

1. List the ticker symbol, date, opening and closing stock prices, and day type of all stocks that were traded on a Holiday in 2011.