CS525

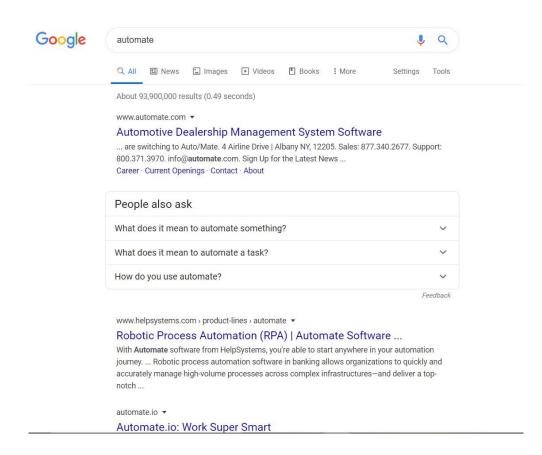
Information Retrieval & Social Web Homework 2

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Short-Answer Questions:

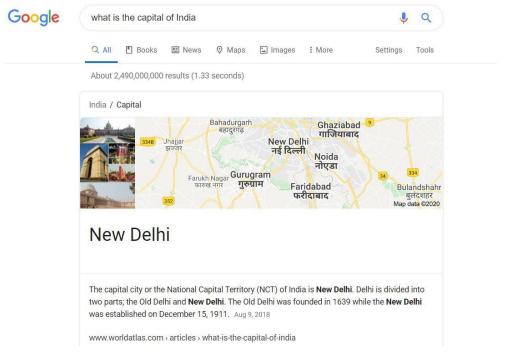
- 1. I did this analysis on Google.
 - a. Google uses Stemming.

I searched for many words with its several form. One of the example that I searched is the keyword: automate

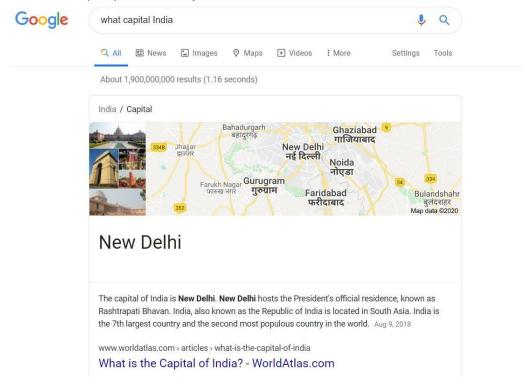


Since the result consists of all words like automotive, automation, etc. related to automate, it means that Google uses Stemming in its search queries.

b. When I searched for two of the sentences- Search query 1: what is the capital of India

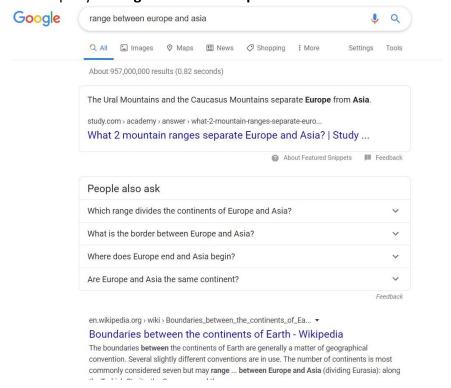


And Search query 2: what capital India

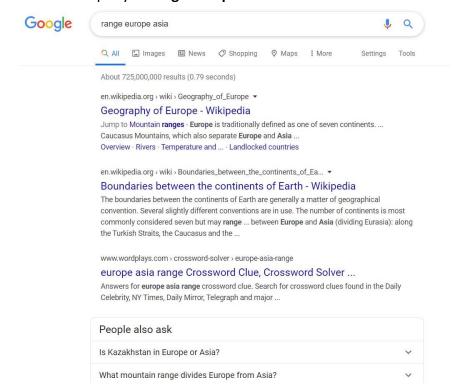


I get the same results. With this we can say that google filters stop words.

However, with another search: Search query 1: range between europe and asia



And Search query 2: range europe asia



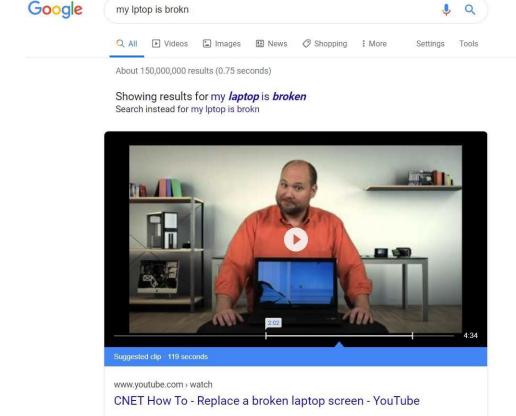
Both searches result in different results. This shows that Google filters stop words, but the stop word list of Google is very small, meaning, it filters only very common words and keeps everything else.

c. Google uses spell correction.

With search of a wrongly spelled sentence/word, google shows results with correct spelled word search:

For Example, my search: my lptop is brokn

Google shows results with correct words and displays the message as well with the correction.



2. Precision and Recall:

- a. Precision = 14/30 = 0.4667
- b. Recall = 14/80 = 0.175