Apache Spark

In this directory I have two projects that use Apache Spark framework for distributed data processing for . In detail:

- 1. RDD.ipynb: This Python notebook leverages the PySpark RDD API to analyze a parallel corpus of transcriptions from the European Parliament, containing texts in Greek and English. It involves tasks such as:
 - a. loading & preprocessing the text b computing the 10 most frequent words in each language, and using the parallel corpus to mine translation pairs by pairing words found in lines of equal length in both languages.
- 2. DataFrames_SQL.ipynb: This Python notebook leverages the PySpark DataFrames/SQL API to analyze a dataset of Los Angeles Parking Citations, that has been preloaded into an HDFS cluster.

The tasks that I have done are among other:

- a. loading, exploring and preprocessing the dataset
- b. finding the maximum fine amount

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- c. finding the top 20 most frequent vehicle makes
- d. finding what's the most frequent colour value for Toyotas