

Lab Assignments for ITM 511

Overview

Students will have 3 lab assignments throughout the semester. Total points for lab assignments are 10.

Feedback strategy

The feedbacks will be given by the online submission and evaluation system (http://eclass.seoultech.ac.kr)



Lab Assignment #1 – Big data manipulation

Assignment Overview

Released date: 3/27Due date: 4/2 23:59 PM

> Assigned points: 3

Where to submit: to e-class (http://eclass.seoultech.ac.kr)

- Submission: a word file including the followings: 1) random.py, 2) the captured result for each step, and 3) the explanation of each step
- > Late submission is not allowed
- Description

Practice - Inserting Data from a File

- 1. Make a simple python script to generate a given numbers of strings (one per line)
 - python random_strings.py 100
- Make three files using the python script to generate random strings with 10, 100, and 1000 numbers, respectively (called, ten_strings.txt, hundred_strings.txt, and thousand_strings.txt)
- 3. Upload the generated files into HDFS
- 4. Create a table in Impala to store the generated data
- 5. Load a file, called thousand_strings.txt, into the table and check the total inserted number of data
- 6. Append a file, called hundred_strings.txt, into the table and check the total inserted number of data
- 7. Overwrite a file, called ten_strings.txt into the table and check the total inserted number of data