

# Documentation and Report

For more information use the Powerpoint presentation.

## Versionen we used:

VM – 5.12.0

Spark 1.6

Python 2.7.14

Jupyter 4.2.1

Kafka 3.0.0

MySQL 14.14

Hadoop 2.6.0

Hive 1.1.0

ZooKeeper 3.4.5

Avro 1.7.6

Php 7.2.2 (with php\_mysql extension)

## Install documentation:

**0. Download the movie data at** <https://www.kaggle.com/rounakbanik/the-movies-dataset>

### **1. Setup MySQL Table:**

\$ > SU

# > mysql - - password

Cloudera

Mysql > CREATE DATABASE insider\_movies

Mysql > Use insider\_movies

Mysql > CREATE TABLE movie

(budget DOUBLE,

```
title VARCHAR(200),  
genres VARCHAR(200),  
date DATE,  
revenue DOUBLE,  
vote_average FLOAT,  
vote_count INT)
```

## **2. Start Consumer:**

```
spark-submit -- master yarn-cluster --py-files KafkaConstans.py  
-- packages mysql:mysql-connector-java:5.1.39 KafkaConsumer.py
```

## **3. Start Producer**

```
python KafkaProducer.py
```

## **4. Enough movies: ( use jupyter notebook )**

```
pyspark --packages mysql:mysql-connector-java:5.1.39
```

Cells from Clustering.ipynb one after the other

**Important! Cell 6:** The right cluster for **insiderLabel** must be set

## **5. Generate current html file:**

a. >php insider\_movies.php

## **6. Open generated file insider\_movies.html in browser**

