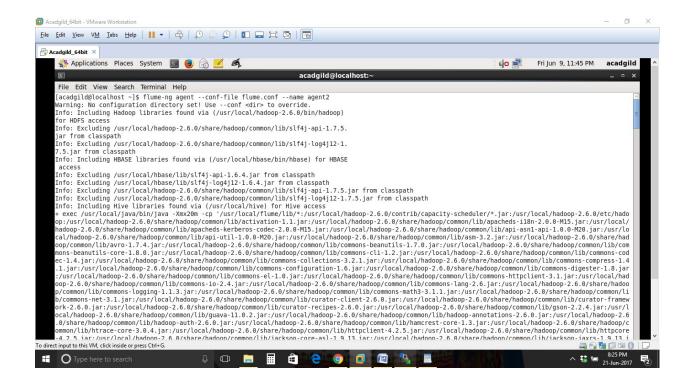
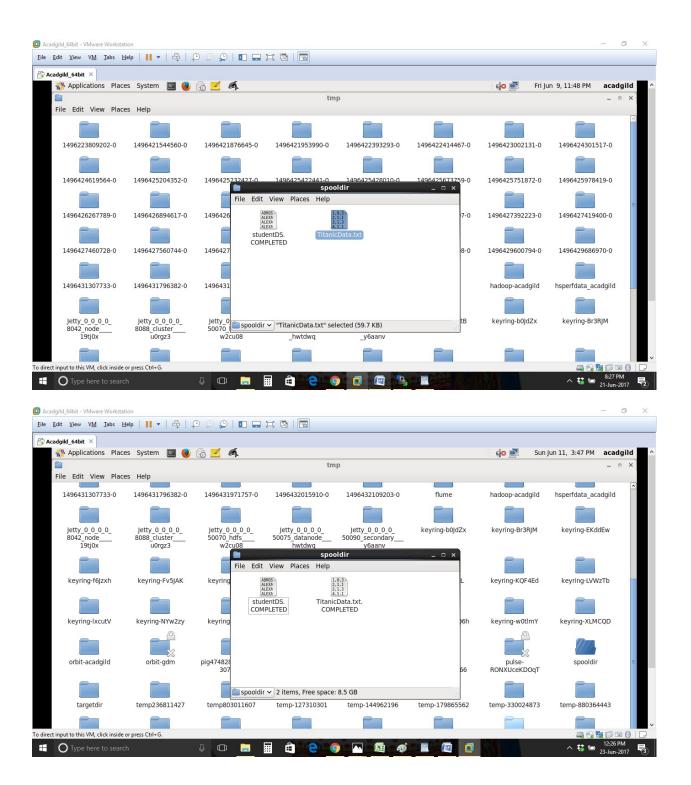
Project 1.2

Titanic Data Analysis

Copy the data set into HDFS using Flume





Pig:Latin Code to load the Titanic Passenger Data

titanic_data = load 'TitanicData.txt' Using PigStorage(',') as (pass_id:int,survived:int,class:int,name:chararray,gender:chararray,age:int,sibsp:int,parch:int,ticket:chararray,fare:float,cabin:chararray,embarked:chararray);

Problem Statement

In this problem statement, we will find the average fare of each class.

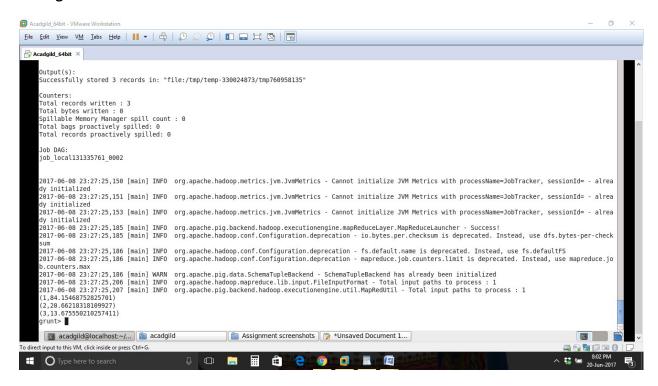
fare_class = foreach titanic_data generate class, fare; (generate only class & fare details)

fare class group = group fare class by class;(group data by classwise)

avg_class_fare = foreach fare_class_group generate group as class, AVG(fare_class.fare) as average fare; (calculating the average fare for each class based on grouped data)

dump avg_class_fare;

Average Fare for each Class



Problem Statement

In this problem statement, we will find the number of people alive in each class and embarked at Southampton.

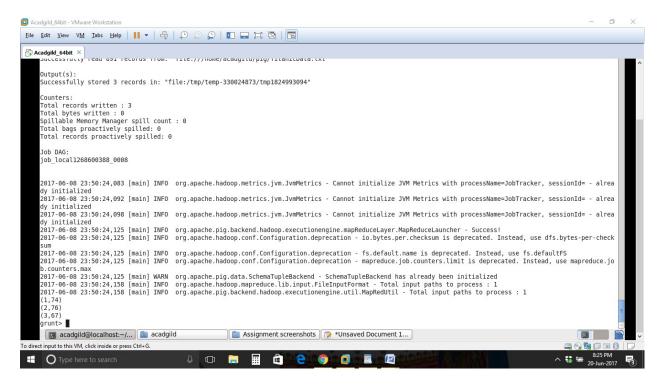
alive_southampton = filter titanic_data by embarked matches'S' and survived==1; (filter data of passengers who embarked in Southampton and are alive)

alive_southampton_class = group alive_southampton by class; (Group the data class wise)

alive_southampton_count = foreach alive_southampton_class generate group,
COUNT(alive_southampton.name); (generating the count of alive passenger in each class who
embarked from Southampton)

dump alive southampton count;

Number of passenger alive in each class who embarked in Southampton



Problem Statement

In this problem statement, we will find out number of males and females who died in each class.

```
pass_died = filter titanic_data by survived==0;
(filtering details of passenger who died)

pass_died_data = foreach pass_died generate class,gender;
(generating only class and gender details of passenger died)

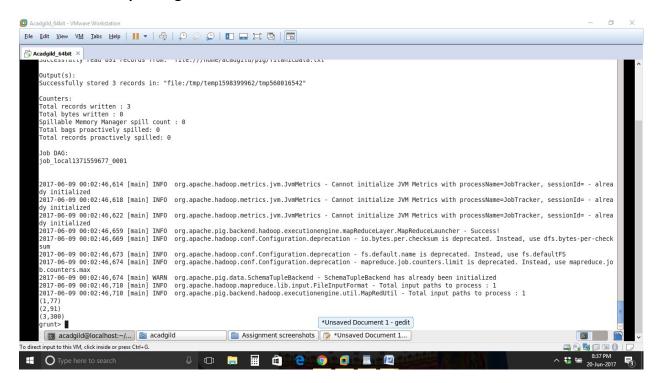
male_pass_died = filter pass_died_data by gender matches'male';
(filtering details of only male passenger)

male_died_group = group male_pass_died by class;
( group the male passenger died by class)

male_died_count = foreach male_died_group generate group,
COUNT(male_pass_died.gender);
(generating count of male passenger died class wise)
```

Dump male_died_count;

Number of male passengers died in each class



female_pass_died = filter pass_died_data by gender matches'female';
(filtering details of only female passenger)

female_died_group = group female_pass_died by class;
(group the female passenger died by class)

female_died_count = foreach female_died_group generate group, COUNT(female_pass_died.gender); (generating count of male passenger died class wise)

dump female_died_count;

Number of female passengers died in each class

