

INCEPTEZ TECHNOLOGIES MR-v2 WORKOUTS

Open Eclipse

1. Create Java Project Inceptez (file → new → java project)
2. Create Package inceptez.training.mr (file → new → package)
3. Create Class Trending (file → new → class)
4. Copy the code into eclipsce from /home/hduser/mrdata/Trending.java
5. Import dependent jars
(Right click on the package in left side → build path → configure build path → click libraries tab → add external jars → goto the directoray and select /usr/local/hadoop/share/hadoop/common/hadoop-common-2.7.1.jar and /usr/local/hadoop/share/hadoop/mapreduce/hadoop-mapreduce-client-core-2.7.1.jar)
6. Create jar (file-->export-->java-->jarfile) as /home/hduser/Trending.jar
7. Create the following hdfs dirs

```
cd /home/hduser/mrdata/  
hadoop fs -mkdir mrinput  
hadoop fs -copyFromLocal courses.log /user/hduser/mrinput/  
hadoop fs -copyFromLocal students.log /user/hduser/mrinput/
```

Job Submission:

Trending Technologies

Create jar (file-->export-->java-->jarfile)

```
hadoop jar /home/hduser/Trending.jar inceptez.training.mr.Trending /user/hduser/mrinput/courses.log /user/hduser/mrTrending
```

```
hadoop fs -ls /user/hduser/mrTrending
```

Combiner with more reducers with Sequence output format

```
hadoop jar TrendingOptions.jar inceptez.training.mr.TrendingOptions /user/hduser/mrinput/courses.log /user/hduser/TrendingOptions
```

Identity Reducer

```
hadoop jar identityred.jar inception.training.mr.identityred /user/hduser/mrinput/courses.log
```

```
/user/hduser/identityred
```

```
hadoop fs -ls /user/hduser/identityred
```

Use Case:

Custom Partitioner

Define your own partitioner to divert the students into 2 different reducers based on city and delimit the comma separated data to tab.

Open /home/hduser/mrdata/TrendingPartitioner.java and create a jar out of it as given below.

```
hadoop jar TrendingPartitioner.jar inceptez.training.mr.TrendingPartitioner /user/hduser/mrinput/students.log  
/user/hduser/TrendingPartitioner
```

```
hadoop fs -ls /user/hduser/TrendingPartitioner  
hadoop fs -cat /user/hduser/TrendingPartitioner/*
```