



JAYOTI VIDYAPEETH WOMEN'S UNIVERSITY, JAIPUR
Government of Rajasthan established
Through ACT No. 17 of 2008 as per UGC ACT 1956
NAAC Accredited University

Faculty of Education and methodology

Department of Computer Science and Engineering

Faculty Name- Jv'n Narendra Kumar Chahar (Assistant Professor)

Program- B.Tech 6thSemester

Course Name – Web Intelligence, HADOOP and Big Data Analysis

Session no.: 13

Session Name- How to Interact with MapReduce Jobs

Academic Day starts with –

- Greeting with saying '**Namaste**' by joining Hands together following by 2-3 Minutes Happy session, Celebrating birthday of any student of respective class and **National Anthem**.

Lecture starts with- quotations' answer writing

- Review of previous Session- **Commands in Hadoop**

Topic to be discussed today- Today We will discuss about –**How to Interact with MapReduce Jobs**

- Lesson deliverance (ICT, Diagrams & Live Example)-
➤ Diagrams

Introduction & Brief Discussion about the Topic – **An overview about MapReduce Jobs**

How to Interact with MapReduce Jobs

Usage – `hadoop job [GENERIC_OPTIONS]`

The following are the Generic Options available in a Hadoop job.

Sr.No.	GENERIC_OPTION & Description
1	-submit <job-file> Submits the job.
2	-status <job-id> Prints the map and reduce completion percentage and all job counters.
3	-counter <job-id> <group-name> <countername> Prints the counter value.
4	-kill <job-id> Kills the job.
5	-events <job-id> <fromevent-#> <#-of-events> Prints the events' details received by jobtracker for the given range.
6	-history [all] <jobOutputDir> - history < jobOutputDir> Prints job details, failed and killed tip details. More details about the job such as successful tasks and task attempts made for each task can be viewed by specifying the [all] option.
7	-list[all] Displays all jobs. -list displays only jobs which are yet to complete.
8	-kill-task <task-id> Kills the task. Killed tasks are NOT counted against failed attempts.
9	-fail-task <task-id> Fails the task. Failed tasks are counted against failed attempts.
10	-set-priority <job-id> <priority> Changes the priority of the job. Allowed priority values are VERY_HIGH, HIGH, NORMAL, LOW, VERY_LOW

To see the status of job

```
$ $HADOOP_HOME/bin/hadoop job -status <JOB-ID>  
e.g.  
$ $HADOOP_HOME/bin/hadoop job -status job_201310191043_0004
```

To see the history of job output-dir

```
$ $HADOOP_HOME/bin/hadoop job -history <DIR-NAME>  
e.g.  
$ $HADOOP_HOME/bin/hadoop job -history /user/expert/output
```

To kill the job

```
$ $HADOOP_HOME/bin/hadoop job -kill <JOB-ID>  
e.g.  
$ $HADOOP_HOME/bin/hadoop job -kill job_201310191043_0004
```

References-

1. **Book:** Hadoop: The Definitive Guide by Tom White, 3rd Edition, O'reilly Hadoop in Action by Chuck Lam, MANNING Publications
2. **Online:** <https://www.tutorialspoint.com/>
3. **Online:** <http://www.oracle.com/>

QUESTIONS: -

Q1. Where is the command and syntax of MapReduce in Hadoop?

Q2. What does these commands do- counter, kill-task, status, set-priority and events?

Next, we will discuss about Hadoop - Streaming

- Academic Day ends with-
National song 'Vande Mataram'