Mid-Term Exam Review





Mid-Term Exam Details

- Exam date: 13 April 2023
- Exam location: Dalby Hall
- Total points 40
- Total questions 4
- 10 MCQs
- Closed book/Closed notes





Lesson-wise Points Distribution

- MapReduce 13 points
- Apache Pig 11 points
- Apache Avro 10 points
- HDFS & YARN 6 points





Lesson 2

- Daemons in Hadoop 1 and 2 and their jobs
 - NN, SNN, DN, JT, TT in Hadoop 1
 - NN, SNN, DN, RM, NM, AM, Containers
- Data flow basics
- HDFS Federation
- NameNode HA
- YARN





- Lesson 3 and 4 MapReduce
 - Signature of Map & Reduce methods
 - Combiner, In-mapper combiner & Partitioner
 - Shuffle/Sort phase
 - How to write MR algorithm to solve a given problem





- Lesson 5 Avro
 - How to write Schema file and how to create Generic record
 - Built-in sorting
 - How to use AvroJob, AvroKey and AvroValue in code





- Lesson 6 Apache Pig
 - Pig Latin Operators and Functions
 - Case Sensitivity



Slides to Read

- Lesson 2:
 - 4 21
 - 26 59
- Lesson 3:
 - 10 25
- Lesson 4:
 - 4 45

- Lesson 5:
 - *o* 12 35
- Lesson 6:
 - 11 61

Exam Rules and Regulations

- All materials including backpacks, cell phones, class notes, textbooks and past exams must be left at the front of the class. You will not have access to those items during the exam. Failure
- You must bring your own pens, pencils, erasers & sharpeners.
- Any form of communication with other students is not allowed during the exam. Every verbal and non-verbal form of communication with another student will result in the loss of one letter grade.
- In order to get any form of assistance from the proctor, you must raise your hand. No verbal communication is allowed until the proctor gives explicit permission.
- Once you leave the exam room, there is no reentry.

to do so will result in an NC grade.

You can request for a postponement of the exam if you are sick. In that case, you must produce a letter from a qualified physician.



Good Luck!