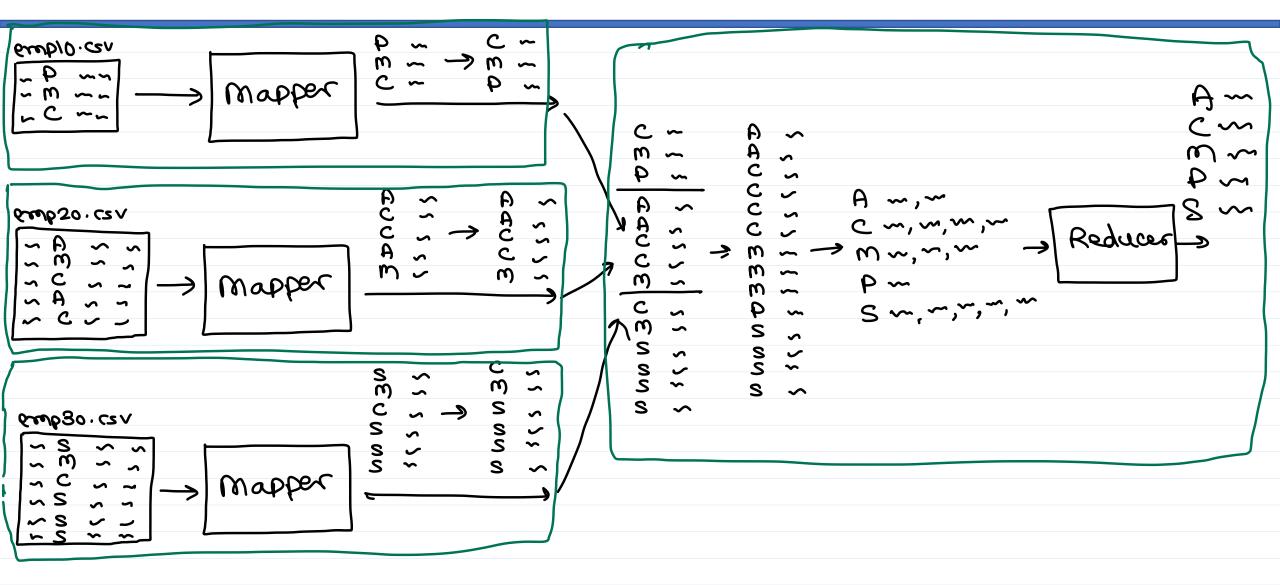


Big Data Technologies

Trainer: Mr. Nilesh Ghule.



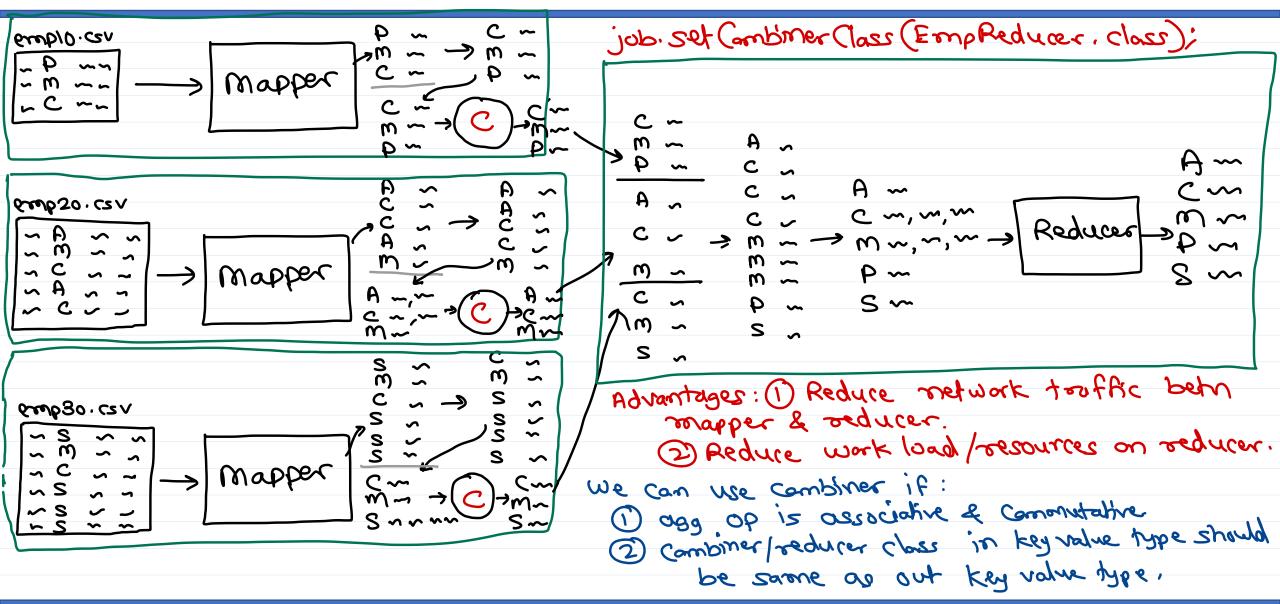
MR execution flow Multiple Mappers and Single Reducer





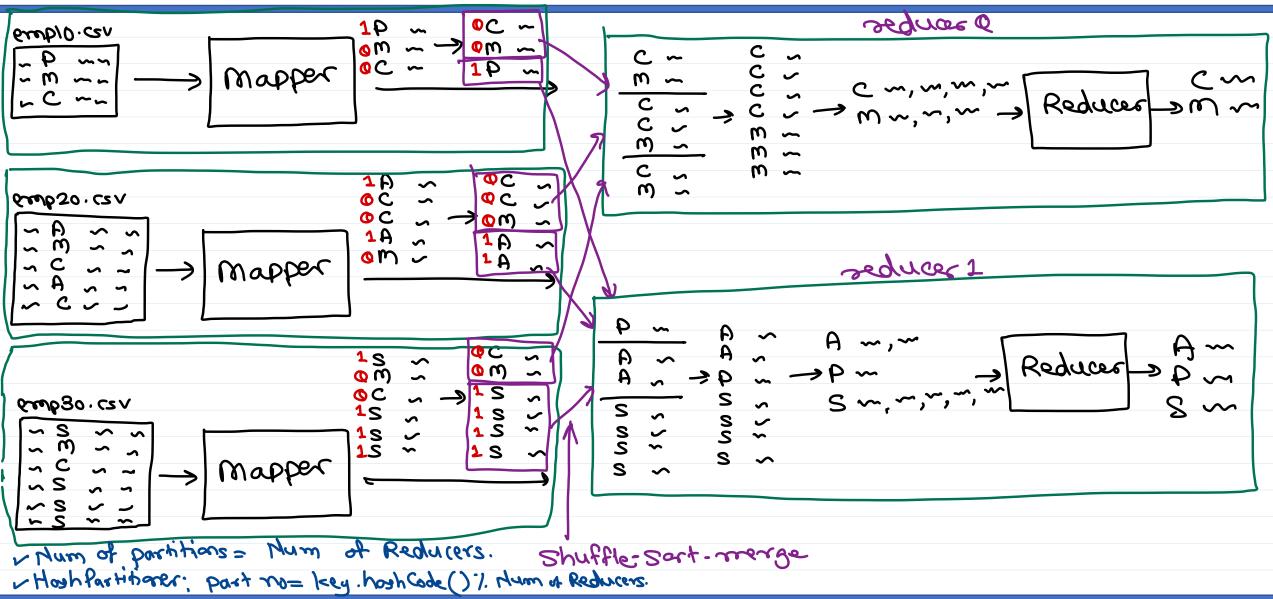
MR execution flow

Combiner a.k.a Local Reducer



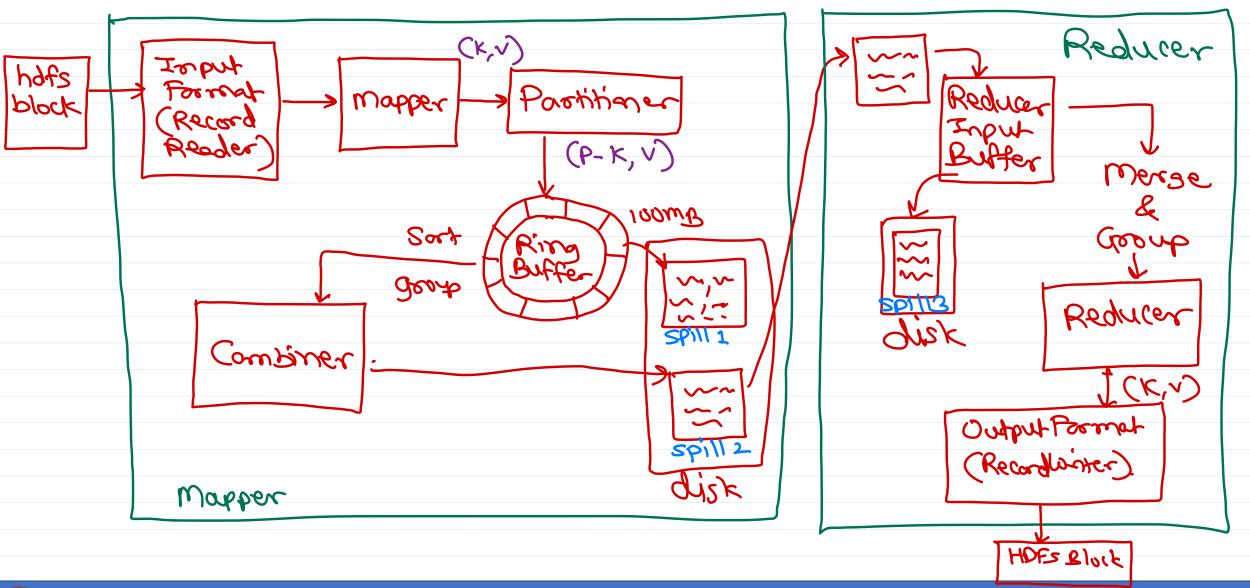


MR execution flow Multiple Mappers and Multiple Reducer



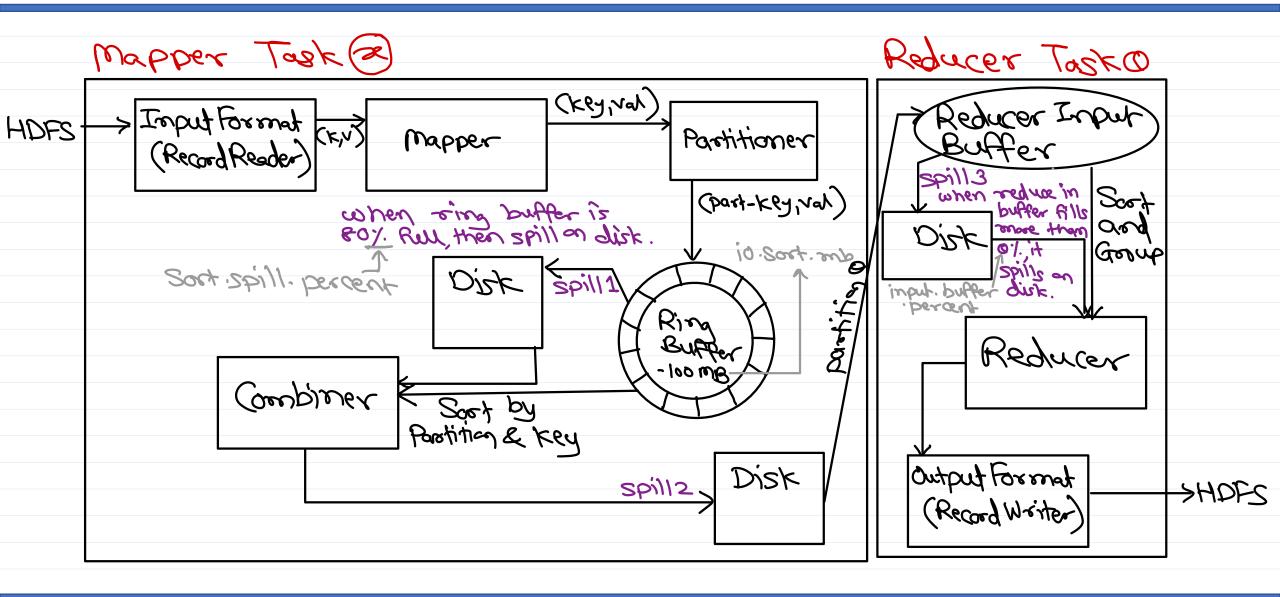


Map Reduce Flow





Map Reduce Data Flow





Input Splits

Number of reappers - Number of input Splits Number of Enput split & Number of HDFS blocks En1: 20 files each of IMB approx -> Hum of HPFS blocks = 20 -> Mum of input splits = 20 -> Mum or onappers = 20. Ex2: 2 files - f1 = 200 mB, f2 = 300 mB -> Num of HPFS blocks = 2+3=5 -> Mum of input split = 5 -> Mum or onappers = 5

Input format is responsible for reading occards one by one. If has an internal RecordReader Text Input Format > 1 re and = 1 line > (offset line). Key Value Text Input Format - I se and = 1 line > (key, value) key It value Db Input Forench > 1 record = 1 row (RDBMS) Combined Text Input Format -> Combine roubtiple text file into single input split.

f/= 256 mB+ 50 bytes. HDB blocks = 3. 128 MB 128 MB 2012/6 hum Imput Splits = 2 Input split is logical part of desta that is to be processed by a single

mostly 1 split = 1 hdfs block.

mapper.



Thank you!

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