Map reduce vs. apache spark

**Limitations of map reduce:** Map Reduce does not process well in some cases those cases are:

1. When we need a fast response to process the data map reducer does not work well. It needs more time to process the data.

2. We have lot of reads and writes in map reduces to process the data.

3. Iterations - when you need to process data again and again map reducer is very complex.

4. For writing the codes for mapper and reducer we can just use java scripts where as in spark we can use any kind of scripts.

5. To run a small query on the data also takes a lot of time and need so many read and writes.

6. Joining two large data sets with complex conditions is not easier in map reduce

7. Map reduce cannot process graphs.

8. Data has a more number of replication so processing gets slow because of this too many replications.

9. Mapper and record reader just understands (key, value) pairs so data has to be convert into that.

10. When map phase generate too many keys then sorting needs to be done for the data which takes a long time.