**7.1**

Why Map-reduce program is needed in Pig Programming?

Pig latin quries fires MapReduces statements which access HDFS files and process data.

2. What are advantages of pig over MapReduce?

No Need of Java Expertise,Scripting language, Not tied to any framework,Many Built In functions

Less Lines of Code

3. What is pig engine and what is its importance?

It acts as Intrepreter between Pig Latin Scripta and MApreduce Jobs.It creates environment to execute pig scripts in series of parallel map reduces programs

4. What are the modes of Pig execution?

Local Mode ---- Single JVM runs on Local Unix file path ( pig –x local path)

Map Reduce Mode --- Series of Mapreduce jobs runs on HDFS

5. What is grunt shell in Pig?

Interactive Shell for executing Pig Commands.

Used when script file is not provided.

Can execute scripts from Grunt via run or exec commands.

6. What are the features of Pig Latin language?

1. A Pig Latin statement is an operator that takes a [relation](https://pig.apache.org/docs/r0.7.0/piglatin_ref2.html#Relations%2C+Bags%2C+Tuples%2C+Fields) as input and produces another relation as output. A LOAD statement reads data from the file system.
2. A series of "transformation" statements process the data.
3. A STORE statement writes output to the file system; or, a DUMP statement displays output to the screen.

7. Is Pig latin commands case sensitive?

The names (aliases) of relations and fields are case sensitive. The names of Pig Latin functions are case sensitive. The names of parameters (see Parameter Substitution) and all other Pig Latin keywords are case insensitive.