Pre-requisite before starting hadoop process :

1) All processes/nodes of hadoop must be started first .
If not then use following command to start all nodes :
start-all.sh

2) hive and mysql should be properly installed and should be able to connect to prompts with commands:
- hive
- mysql -u root -p

Also
3) mysql> create database MiningProcessSchema;

Step may be oprional if we are going to use MapReduce in future , needed as of now:
4) Create Table in Mysql for BackForce Assumption and also have data in that through insert script.

-- mysql> use MiningProcessSchema;
-- mysql> create table BackforceAssumptioData (BackforceStartValue Double, BackforceEndValue Double, Materail VARCHAR(50) , Description VARCHAR(200));
--mysql> insert into BackforceAssumptioData values (0.00,0.50,'SoftSoil','');
Query OK, 1 row affected (0.05 sec)

mysql> insert into BackforceAssumptioData values (0.51,0.80,'HardSoil','');
Query OK, 1 row affected (0.03 sec)

mysql> insert into BackforceAssumptioData values (0.81,1.60,'SoilRock','');
Query OK, 1 row affected (0.04 sec)

mysql> insert into BackforceAssumptioData values (1.61,2.20,'Iron','');
Query OK, 1 row affected (0.02 sec)

mysql> insert into BackforceAssumptioData values (2.21,3.20,'Zync','');
Query OK, 1 row affected (0.03 sec)

mysql> insert into BackforceAssumptioData values (3.21,3.50,'Alumina','');
Query OK, 1 row affected (0.02 sec)

mysql> insert into BackforceAssumptioData values (3.51,4.60,'Magnasium','');
Query OK, 1 row affected (0.03 sec)

mysql> insert into BackforceAssumptioData values (4.61,5.00,'HardRock','');
Query OK, 1 row affected (0.03 sec)

5) For drill data in hdfs we are using load data command , load data actually removes file from hdfs and load into hive. While as using command external table keeps it as it is in hfds, and creates metastore in hive.