- Write a series of Pig Latin commands to identify:
- 1. The total volume traded for each stock for each month.

```
grunt> data = LOAD 'Sudi/NYSE.csv' USING PigStorage(',') AS (

exchange: chararray,

stock_symbol: chararray,

stock_price_poin: float,

stock_price_logi: float

prunt> data_with_month = FOREACH data GENERATE

grunt> data_with_month = FOREACH data GENERATE

grunt> stock_symbol,

grunt> myse_bata = LOAD 'Sudi/NYSE.csv' USING PigStorage(',') AS (

exchange: chararray,

stock_price_logi: float,

stock_price_logi.

stock_price_logo,

stock_price_logo,

stock_price_logo,

stock_price_logo;

stock_price_l
```

Extract the month from the datetime value.

```
grunt> data_with_month = FOREACH NYSE_with_date GENERATE
grunt> exchange,
>> stock_symbol,
GetMonth(date) AS month,
>> cutoficate) AS month) GENERATE
grunt> FLATTEN(group) AS (stock_symbol, month),
>> SUM(data_with_month.stock_volume) AS total_volume;
grunt>
```

2. The total volume traded for each stock.

```
grunt> volume_per_stock = FOREACH (GROUP NYSE_with_date BY stock_symbol) GENERATE
grunt> group AS stock_symbol,
>> SUM(NYSE_with_date.stock_volume) AS total_volume;

grunt> — Calculate total volume traded for each stock
grunt> volume_per_stock = FOREACH (GROUP data BY stock_symbol) GENERATE
grunt> group AS stock_symbol,
>> SUM(data.stock_volume) AS total_volume;
grunt>
```

3. Store the results in HDFS and display them.

```
STORE volume_per_month INTO 'output_per_month' USING PigStorage(',');

DUMP volume_per_month;
```

STORE volume_per_stock INTO 'output_per_stock' USING PigStorage(',');

DUMP volume_per_stock;

```
FileBytesRead: 1633

FileBytesWritten: 1569

HdfsBytesRead: 268137

HdfsBytesWritten: 1793

SpillableMemoryManager spill count: 0

Bags proactively spilled: 0

Records proactively spilled: 0

Records proactively spilled: 0

DAG Plan:
Tex vertex scope-141 → Tez vertex scope-142,
Tex vertex scope-142

Vertex Stats:
Vertexx farallelism TotalTasks InputRecords ReduceInputRecords OutputRecords FileBytesRead FileByt
esWritten HdfsBytesRead HdfsBytesWritten Alias Feature Outputs
scope-142 1 1 0 5001 64

1569 268137 0 1-181, data, volume_per_stock
0 0 155 155 1569
0 0 1793 volume_per_stock GROUP_BY hdfs://ip-172-31-25-235.ec
2.intermal:8020/user/hadoop/output_per_stock,
Input(s):
Successfully read 5001 records (268137 bytes) from: "hdfs://ip-172-31-25-235.ec2.intermal:8020/user/hadoop/output_per_stock"

Output(s):
Successfully stored 155 records (1793 bytes) in: "hdfs://ip-172-31-25-235.ec2.internal:8020/user/hadoop/output_per_stock"

Grunt> □
```

```
2824-83-14 01:12:21,438 INFO util.MapRedUtil: Total input paths to process: 1
(GA, 9531100)
(GB, 7681400)
(GD, 146828800)
(GE, 2141242700)
(GF, 6697900)
(GF, 2161242700)
(GF, 21612700)
(GF, 12763300)
(GF, 12763300)
(GF, 12763300)
(GF, 1276300)
(GR, 1271500)
(GR, 13700)
(GR, 137100)
(GR, 137100)
(GR, 137100)
(GR, 137100)
(GR, 137100)
(GR, 1471100)
(GR, 1471100)
(GR, 1471100)
(GR, 852390)
```

need to use ToDate operator to change the time format from String to DateTime