```
hadoop@ubuntu22:~$ start-all.sh
hadoop@ubuntu22:~$ jps
hadoop@ubuntu22:~$ gedit weather_sample.txt
1950 0
              1
1950 22
              1
1950 -11
              1
1949 111
              1
1949 78
              1
1949 45
              0
1951 9999 2
1951 9999 5
1952 9999
              9
1953 25
              0
hadoop@ubuntu22:~$ pig -x local
grunt>records = LOAD 'weather_sample.txt' USING PigStorage('\t') AS (year:chararray,
temperature:int, quality:int);
grunt> dump records
(1950,0,1)
(1950,22,1)
(1950, -11, 1)
(1949,111,1)
(1949,78,1)
(1949,45,0)
(1951,9999,2)
(1951,9999,5)
(1952,9999,9)
(1953, 25, 0)
grunt> describe records;
records: {year: chararray,temperature: int,quality: int}
grunt> filtered_records = FILTER records BY temperature!=9999 AND quality IN (0,1,4,5,9);
grunt> dump filtered_records
(1950,0,1)
(1950,22,1)
(1950, -11, 1)
(1949,111,1)
(1949,78,1)
(1949,45,0)
(1953.25.0)
grunt> grouped_records=GROUP filtered_records BY year;
grunt> dump grouped_records
(1949, \{(1949, 45, 0), (1949, 78, 1), (1949, 111, 1)\})
(1950, \{(1950, -11, 1), (1950, 22, 1), (1950, 0, 1)\})
(1953,{(1953,25,0)})
```

grunt> max_temp = FOREACH grouped_records GENERATE
group,MAX(filtered_records.temperature);
grunt> DUMP max_temp;

(1949,111) (1950,22)

(1953,25)