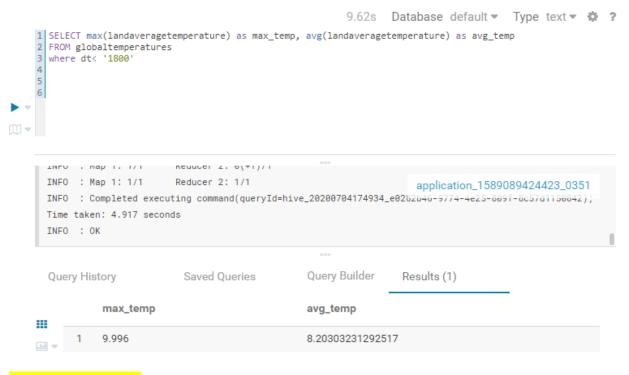
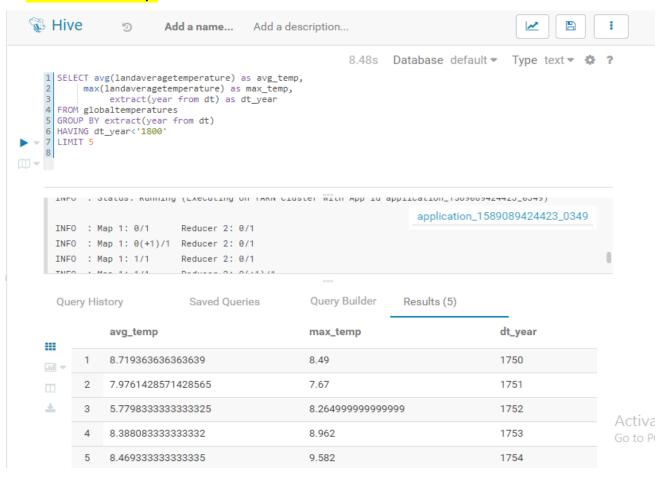
Hello Professor, I have tried couple of ways to get the desired result but I guess, somewhere, I am still making some mistakes I am getting different results. I look forward to getting your feedback on my weaknesses.

Question 1. The avg and max land temperatures for the 18th centuries The first try:



The second attempt



The avg and max land temperatures for the 19th centuries

5 8.844833333333334

The first try

```
12.210 Database detault. Type text. 🗰 1
     1 SELECT max(landaveragetemperature) as max_temp, avg(landaveragetemperature) as avg_temp
       FROM globaltemperatures
       where dt BETWEEN '1800' and '1900'
     5
       114ΓΟ . Plap 1. 1/1 Reduce: 2. 0(+1)/1
       INFO : Map 1: 1/1 Reducer 2: 1/1
                                                                       application_1589089424423_0352
       INFO : Completed executing command(queryId=hive_20200704175909_9237d7fd-f700-40ff-9166-ee1e92b509f4);
       Time taken: 10.215 seconds
       INFO : OK
       Query History
                                                    Query Builder
                              Saved Queries
                                                                     Results (1)
                                                              avg_temp
                max_temp
                9.985
                                                              8.009105
The next one
  1 SELECT avg(landaveragetemperature) as avg_temp,
     max(landaveragetemperature) as max_temp,
            extract(year from dt) as dt_year
    FROM globaltemperatures
    GROUP BY extract(year from dt)
    HAVING dt_year between '1800' and '1901'
  7
8
    LIMIT 5
    INFO . Map 1. 1/1 Reduce 2. 0(+1)/1
    INFO : Map 1: 1/1
                         Reducer 2: 1/1
                                                                      application_1589089424423_0350
    INFO : Completed executing command(queryId=hive_20200704172532_fad9e1e8-7d84-4181-af3b-b267386f209b);
    Time taken: 4.559 seconds
    INFO : OK
    Query History
                            Saved Queries
                                                   Query Builder
                                                                    Results (5)
              avg_temp
                                                      max_temp
                                                                                  dt_year
  8.484250000000001
                                                      9.469
                                                                                  1800
  dil
             8.58966666666668
                                                      9.099
                                                                                  1801
         2
  ±
         3
              8.57816666666666
                                                      9.747
                                                                                  1802
         4
             8.503
                                                      9.291
                                                                                  1803
```

9.282

1804

The avg and max land temperatures for the 20th centuries

```
INFO : Map 1: 1/1 Reducer 2: 0(+1)/1

INFO : Map 1: 1/1 Reducer 2: 1/1

INFO : Completed executing command(queryId=hive_20200704180752_7f10aic0-ecci-45ii-a4/i-0ibea54bade3);

Time taken: 5.241 seconds

INFO : OK
```

Query History			Saved Queries Query Builder	Results (100+)	
		avg_temp		max_temp	dt_year
.ii ~	1	8.541916666	666665	9.003	1901
	2	8.304416666666667		8.801	1902
<u>±</u>	3	8.220166666	666668	8.8120000000000	01 1903
		0.000016666		0.000	1004

Аc

Question 2. The highest temperatures for the same centuries.

It is a matter of terminology (max, largest, highest in some cases) as discussed in the class. And I am assuming that I have already performed these results. However, I am going to add here as well by limiting by 1.

The highest temp in 18 th century.

```
1 SELECT max(landaveragetemperature) as Max_temp,
            extract(year from dt) as dt_year
  FROM globaltemperatures
 GROUP BY extract(year from dt)
 HAVING dt_year < 1801
  ORDER BY Max_temp DESC
  LIMIT 1
9
 INFO . Map 1. 1/1 Reduce1 2. 1/1 Reduce1 3. 0(+1)/1
                      Reducer 2: 1/1 Reducer 3: 1/1 application_1589089424423_0352
 INFO : Map 1: 1/1
 INFO : Completed executing command(queryId=hive_20200704180407_9eae2528-56ba-4138-a88e-1864cdb27184);
 Time taken: 5.187 seconds
  INFO : OK
  Query History
                                               Query Builder
                         Saved Queries
                                                               Results (1)
                                                            dt_year
           max_temp
```

The highest temp in 19 th century.

```
SELECT max(landaveragetemperature) as Max_temp,

| extract(year from dt) as dt_year

FROM globaltemperatures

GROUP BY extract(year from dt)

HAVING dt_year between 1801 and 1900

ORDER BY Max_temp DESC

To Reserve the second second
```

```
INFO : Map 1: 1/1 Reducer 2: 1/1 Reducer 3: 1/1 application_1589089424423_0353

INFO : Completed executing command(queryId=hive_20200704181401_5d7bd41d-f144-4208-a592-b2cd43d2deb9);

Time taken: 10.963 seconds

INFO : OK
```

Query History Saved Queries Query Builder Results (1)

max_temp

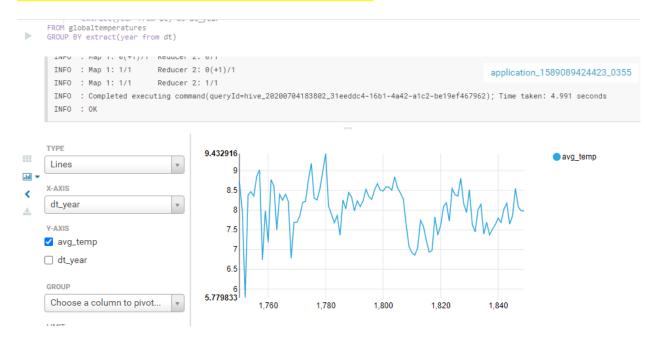
1 9.985

1838

The highest temp in 20 th century.

```
1 SELECT max(landaveragetemperature) as Max_temp,
2 extract(year from dt) as dt_year
        FROM globaltemperatures
        GROUP BY extract(year from dt)
     5 HAVING dt_year between 1901 and 2000
6 ORDER BY Max_temp DESC
       LIMIT 1
₩ -
       INFO . Map 1. 1/1 Reduce1 2. 1/1 Reduce1 3. 0(+1)/1
       INFO : Map 1: 1/1
                              Reducer 2: 1/1 Reducer 3: 1/1
                                                                             application_1589089424423_0353
       INFO : Completed executing command(queryId=hive_20200704181554_be2u18ba-7d78-41ee-88cb-f342cf159e43);
       Time taken: 4.949 seconds
       INFO : OK
       Query History
                                  Saved Queries
                                                          Query Builder
                                                                             Results (1)
                                                                         dt_year
                  max_temp
     9.997
                                                                          1999
```

Question 3. The overall trend in the avg land temperatures?



I was expecting an upward trend in the line graph but it seems there is a fluctuation. One thing, I am wondering about this graph is that did I include all the data from 18 th to 20 th century? In the graph, there is only data till 1850.

I would need your support with this platform, I am really new to it. Can you please share the recorded video lesson where you have explained this particular query language? .