Modeling text data with a hierarchy of clusters

3 试题

1
point

1.

Make sure you have the latest versions of the notebook. Read this post if

- ... you downloaded the notebook before September 10

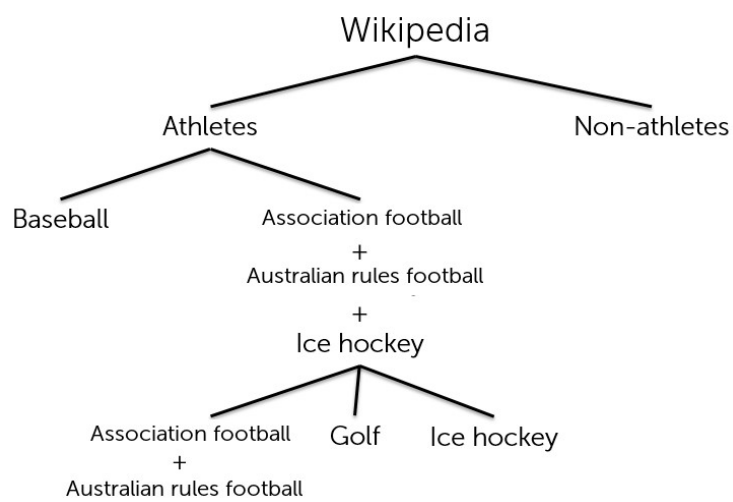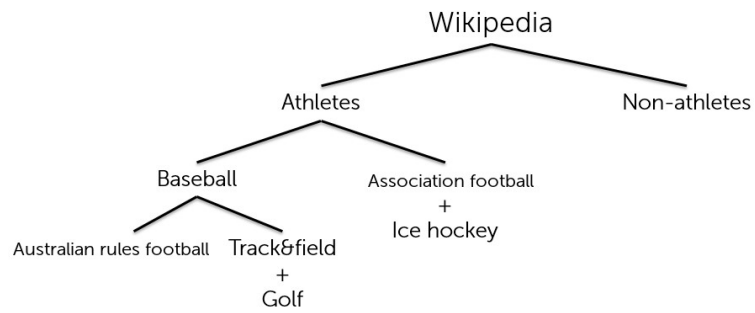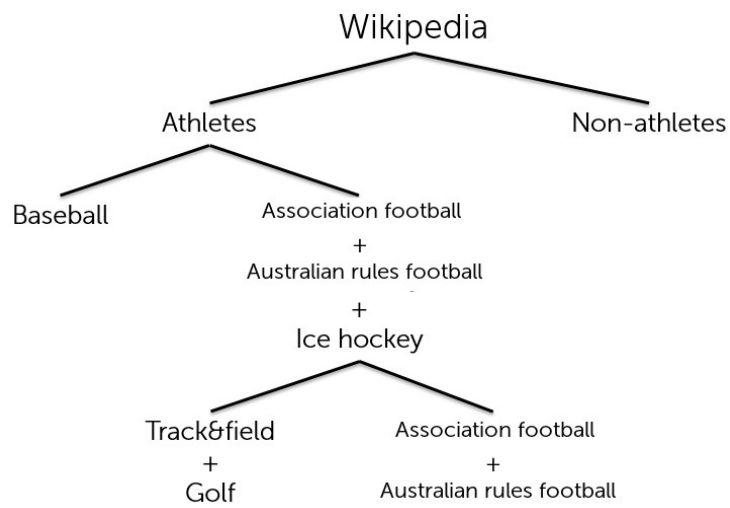- ... you created an Amazon EC2 instance before October 1
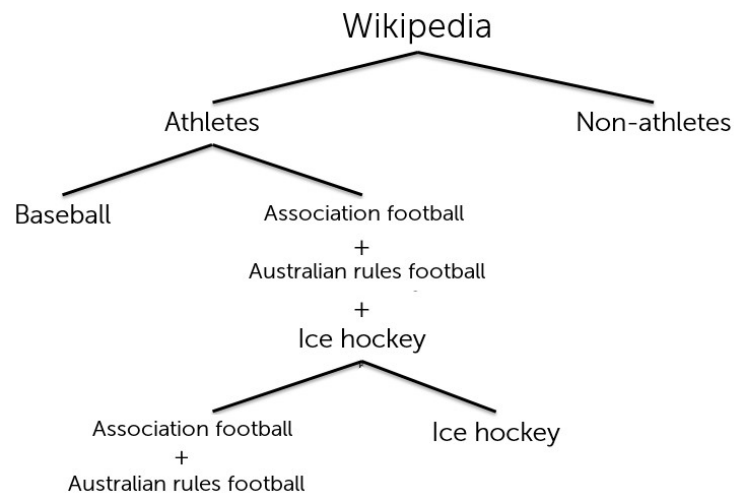
- (●) I acknowledge.

1
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2.

Which diagram best describes the hierarchy right after splitting the **ice_hockey_football** cluster?

○

Option 1

Wikipedia
- Athletes
  - Baseball
  - Association football + Australian rules football + Ice hockey
    - Track&field + Golf
    - Association football + Australian rules football
- Non-athletes

○

Option 2

Wikipedia
- Athletes
  - Baseball
    - Australian rules football
    - Track&field + Golf
  - Association football + Ice hockey
- Non-athletes

○

Option 3

Wikipedia
- Athletes
  - Baseball
  - Association football + Australian rules football + Ice hockey
    - Association football + Australian rules football
    - Golf
    - Ice hockey
- Non-athletes

●

Wikipedia

```
          Wikipedia
         /         \
    Athletes      Non-athletes
    /      \
Baseball   Association football
           +
           Australian rules football
           +
           Ice hockey
          /          \
   Association football   Track&field
   +                      +
   Australian rules football   Golf
```

◯

Wikipedia

```
          Wikipedia
         /         \
    Athletes      Non-athletes
    /      \
Baseball   Association football
           +
           Australian rules football
           +
           Ice hockey
          /          \
   Association football   Ice hockey
   +
   Australian rules football
```

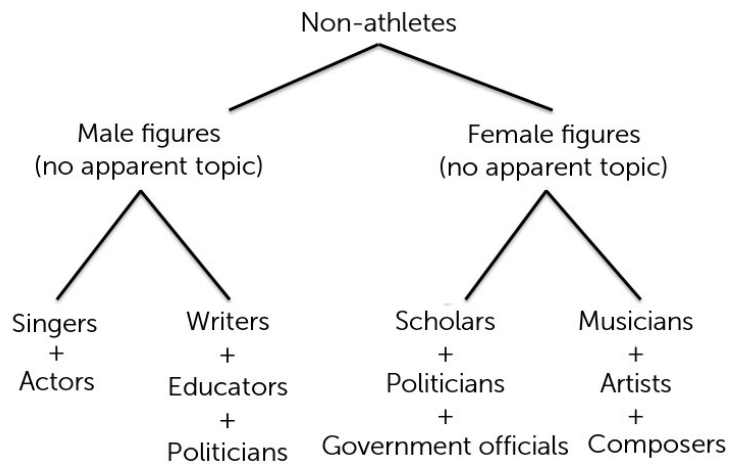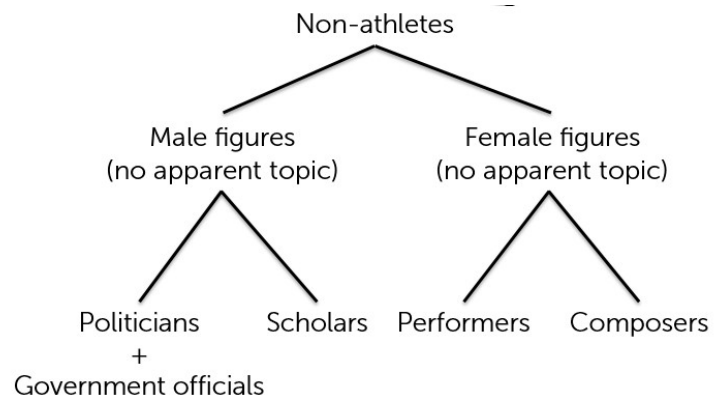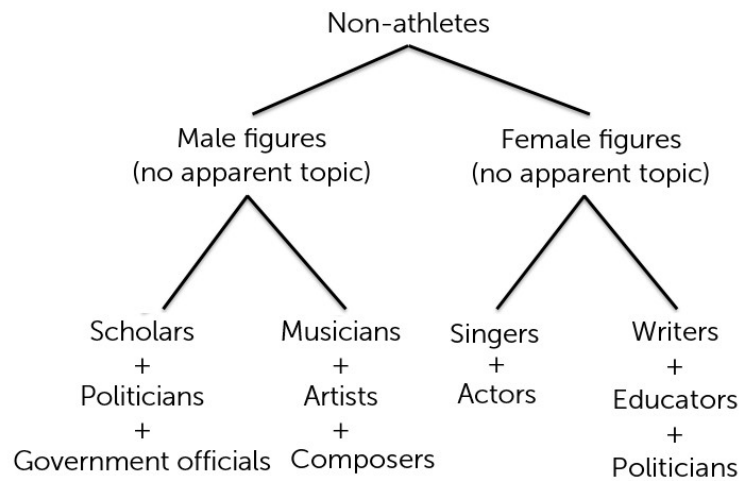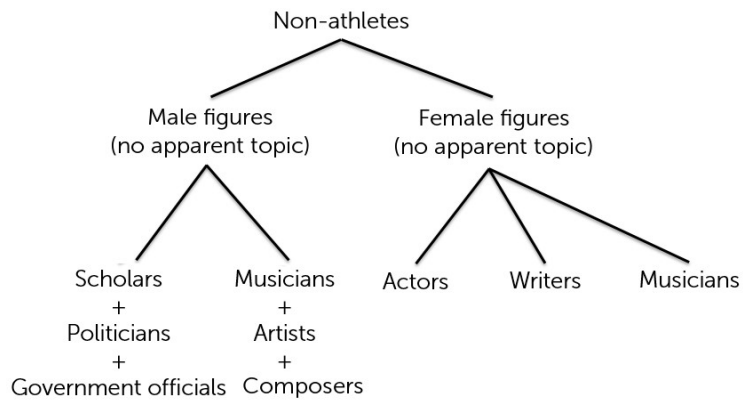## 3.

Let us bipartition the clusters **male_non_athletes** and **female_non_athletes**. Which diagram best describes the resulting hierarchy of clusters for the non-athletes?

Note. The clusters for the athletes are not shown to save space.

◯

Option 1

Non-athletes
- Male figures (no apparent topic)
  - Politicians + Government officials
  - Scholars
- Female figures (no apparent topic)
  - Performers
  - Composers

○

Option 2

Non-athletes
- Male figures (no apparent topic)
  - Singers + Actors
  - Writers + Educators + Politicians
- Female figures (no apparent topic)
  - Scholars + Politicians + Government officials
  - Musicians + Artists + Composers

○

Option 3

Non-athletes
- Male figures (no apparent topic)
  - Scholars + Politicians + Government officials
  - Musicians + Artists + Composers
- Writers + Educators + Politicians

○

Non-athletes

Male figures
(no apparent topic)

Female figures
(no apparent topic)

Scholars
+
Politicians
+
Government officials

Musicians
+
Artists
+
Composers

Actors　　Writers　　Musicians

⦿

Non-athletes

Male figures
(no apparent topic)

Female figures
(no apparent topic)

Scholars
+
Politicians
+
Government officials

Musicians
+
Artists
+
Composers

Singers
+
Actors

Writers
+
Educators
+
Politicians

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