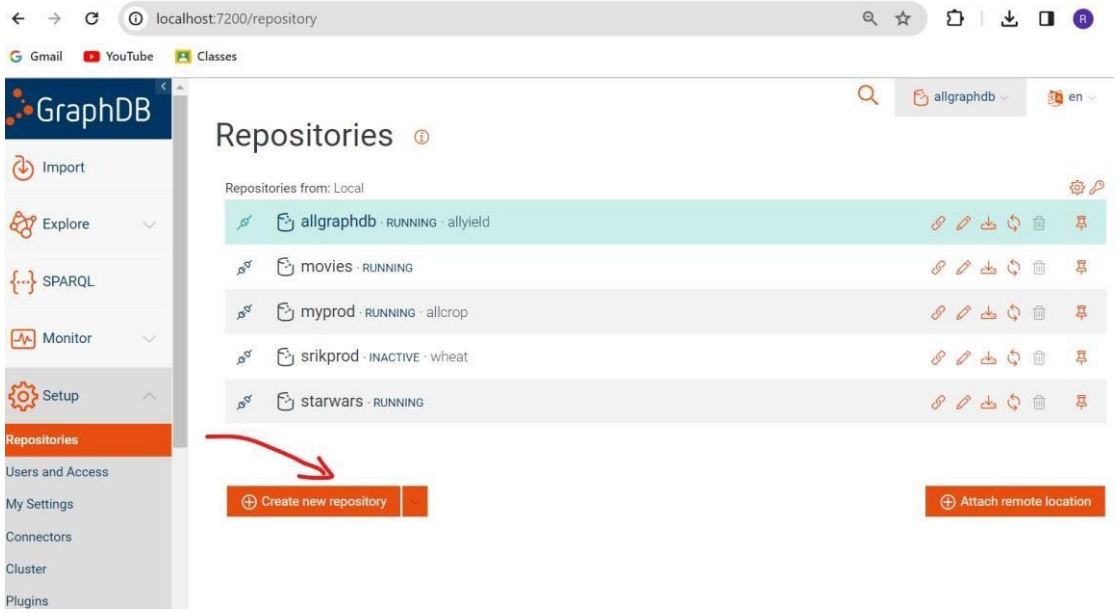
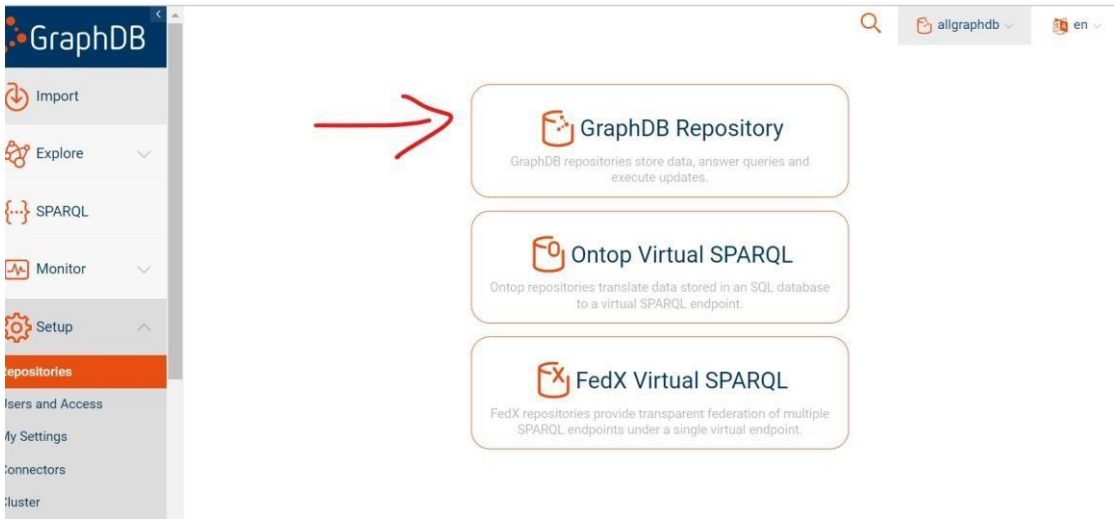
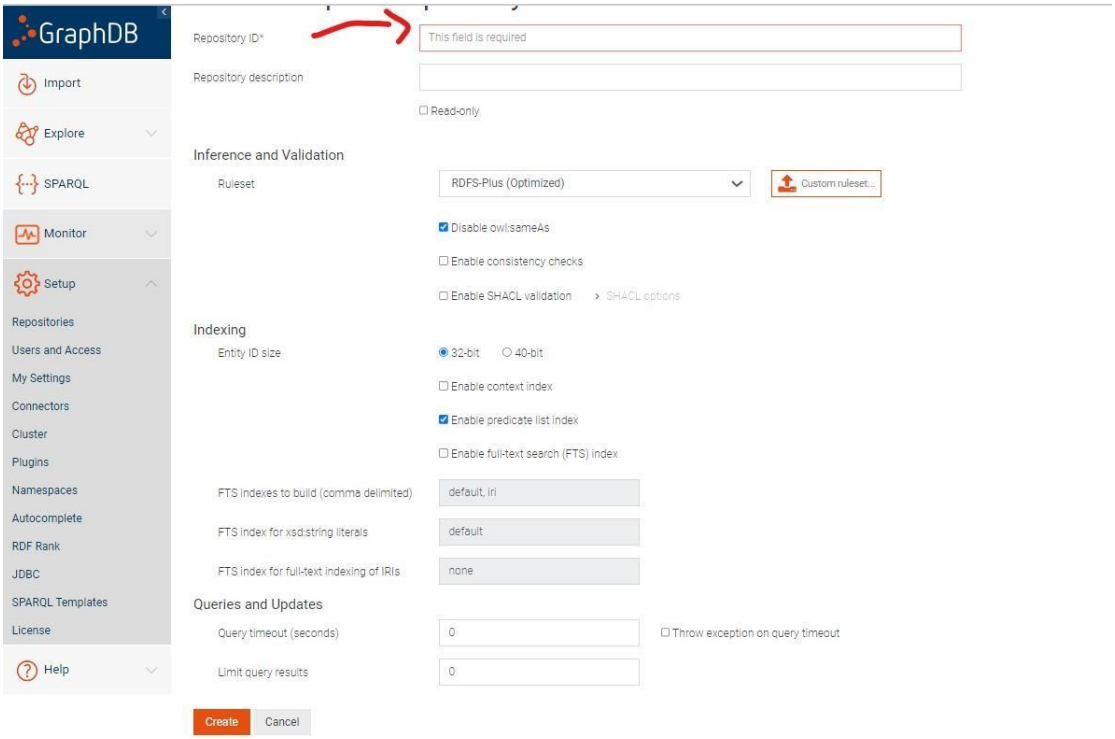
Instructions for running Graph DB instance:

1. https://download.ontotext.com/owlim/13956f1e-3766-11ee-910e-42843b1b6b38/graphdb-10.3.1-dist.zip
2. Download the above graphdb zip file and extract it .
3. Then install the graphdb desktop version and upon successful installation open it and then in the settings tab assign the port value to 7200.
4. Then open graphdb workbench so that it connects to local host server running on port 7200.
5. Convert all the csv files into one combined rdf file using python code. (make necessary changes to path in python code before running).

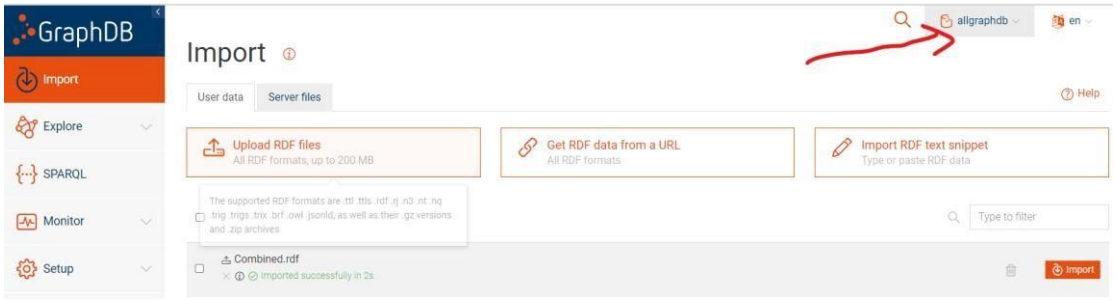
In Setup, create a new repository for our graph relations to show.



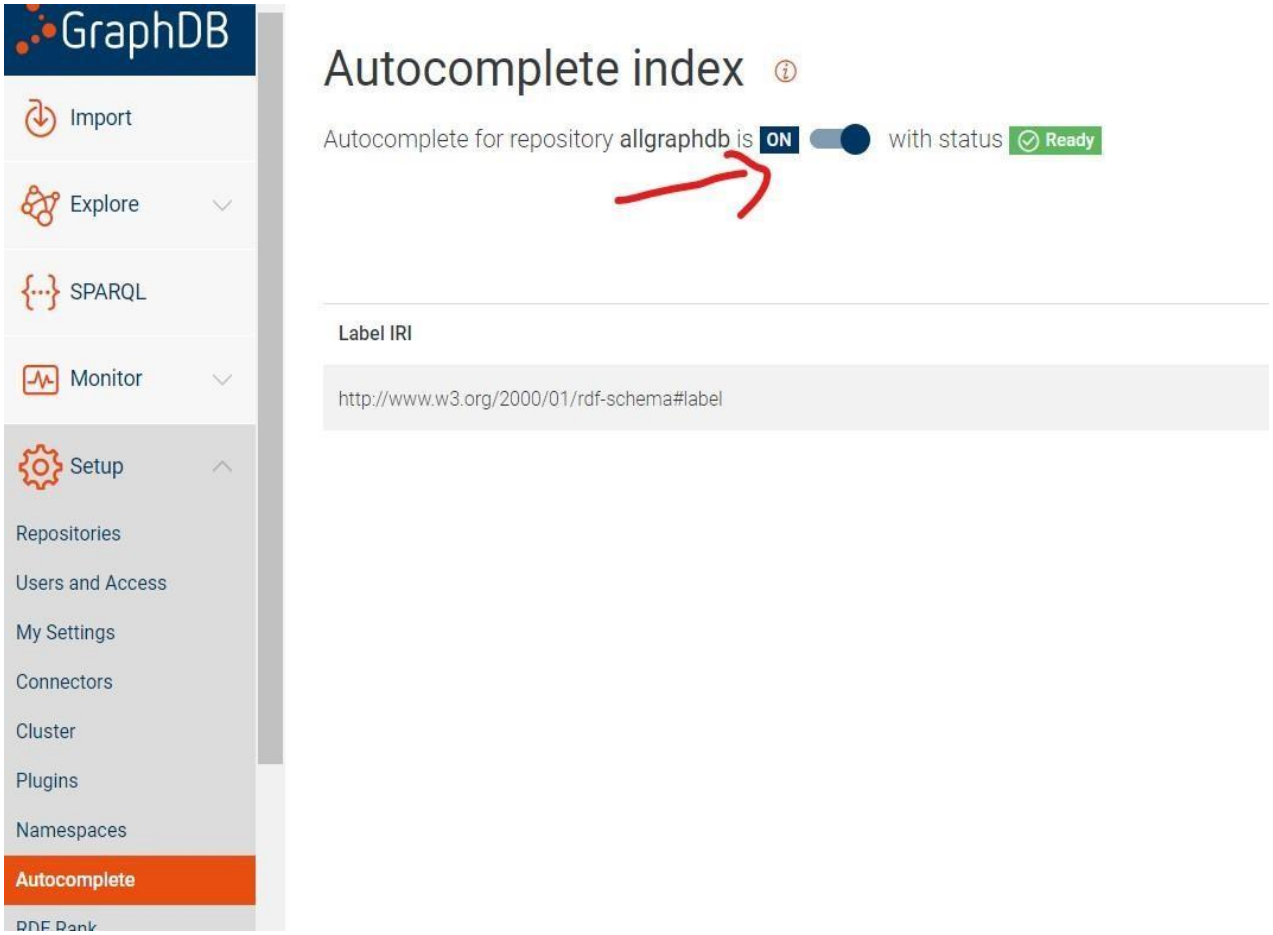




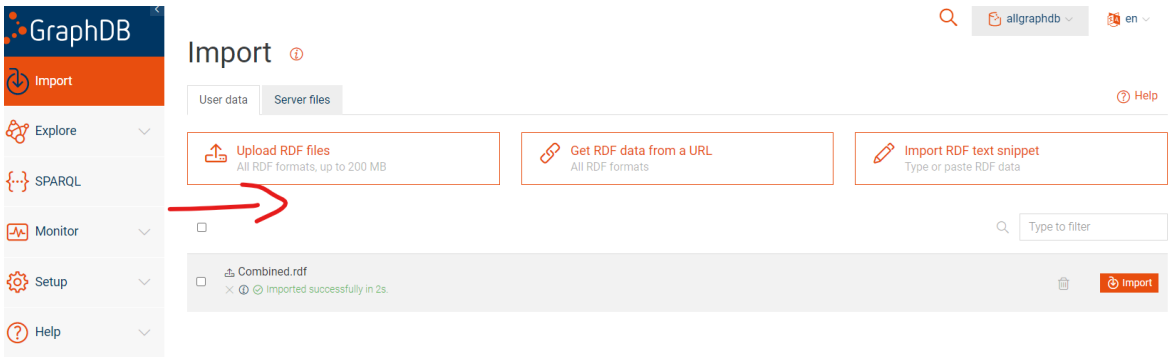
Open that repository on top right corner in dropdown.



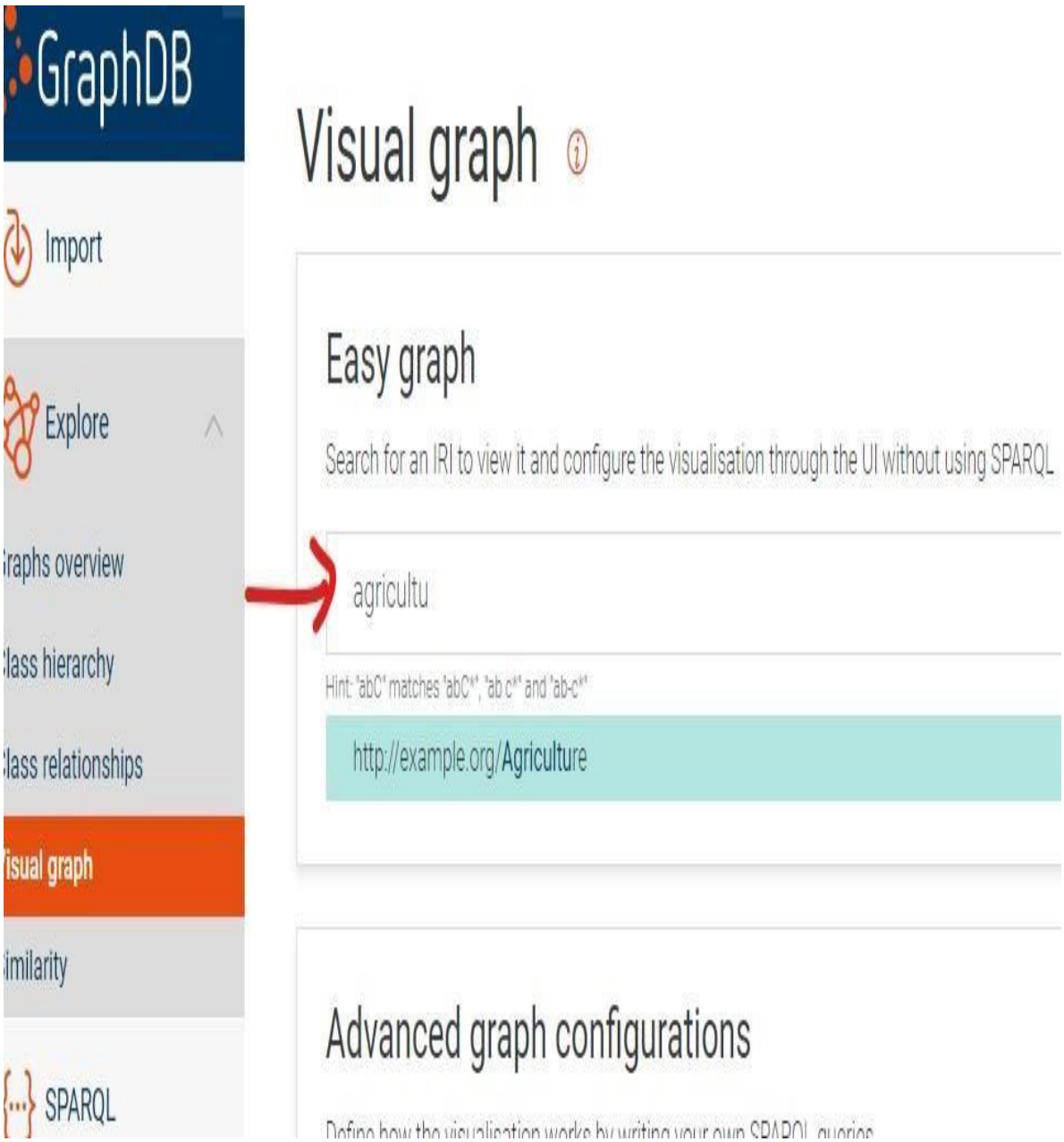
Make sure in setup that autocomplete is turned on.



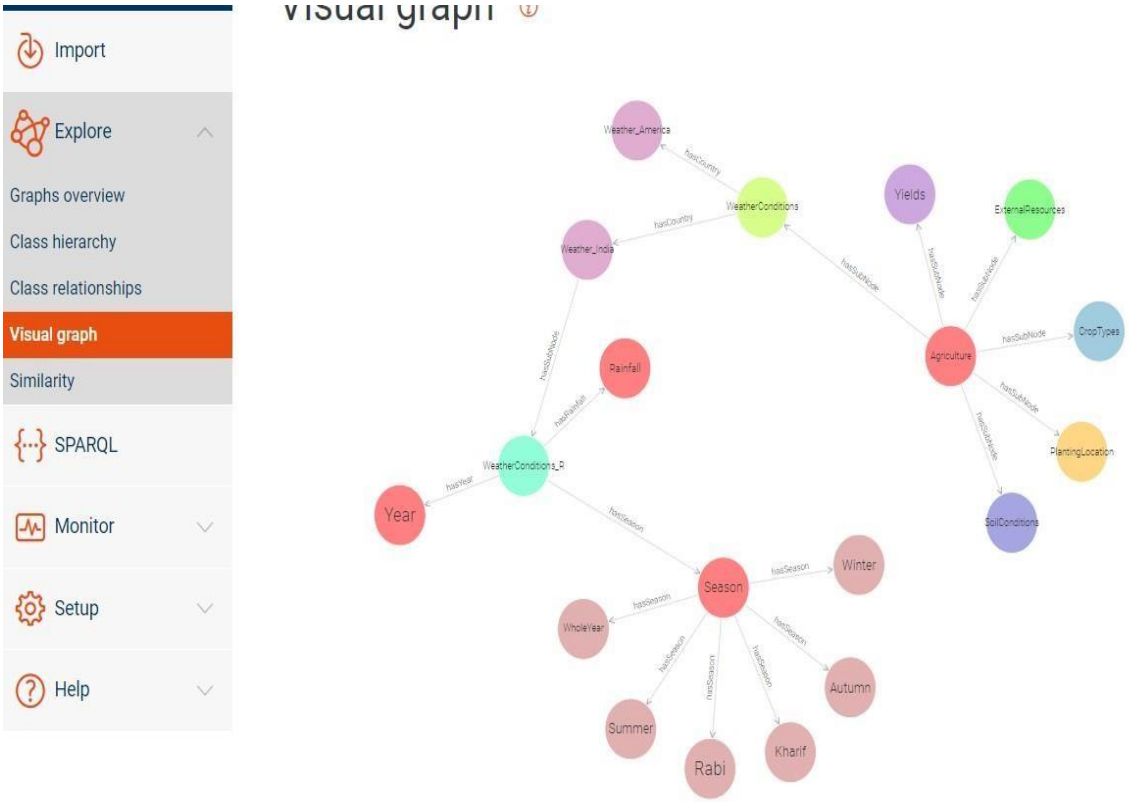
Go to import and upload the rdf file and then import.



Open the visual graph and in easy graph search for agriculture and open it as it is the main node.



It consists of majorly 6 nodes. Then in each node there is Indian data, based on climate and soil characteristics (i.e, Revanth's data) and American data and again American data has 2 subnodes in which one belongs to Srikar data, based on weather and other belongs to Aryan data, based on amount of nitrogen.
Example: WeatherConditions_R is Revanth data
WeatherConditions_S is Srikar data
WeatherConditions_A is Aryan data
Similarly for remaining fields it was mentioned like this.



- Explore all the nodes so that it contains all the data related to it.
- In easy graph as the limit is 1000, it shows only 1000 entries.
- Can check the count using countgraphdb python file. As graph db takes the unique data, it shows the data as one even when they are repeated.
- All 3 students data was taken and kept into related fields in graph db.

In explore, go to class hierarchy to check whether all the nodes and it's data are present.

Numbered 1 like Area 1, Production 1… represents Revanth data.
Numbered 2 like Yield 2, Soil Temp min 2… represents Srikar data.
Numbered 3 like PH3, Humidity3…. represents Aryan data.