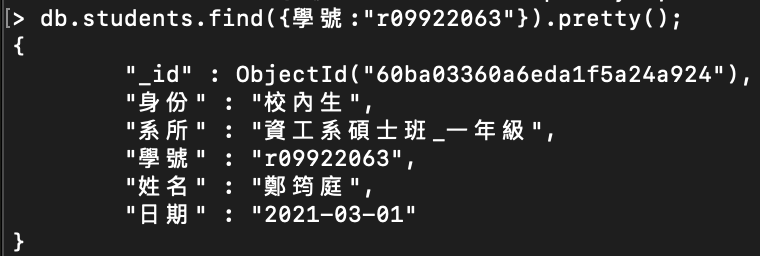
**Part I (MongoDB)**

**Task 1**

Code:

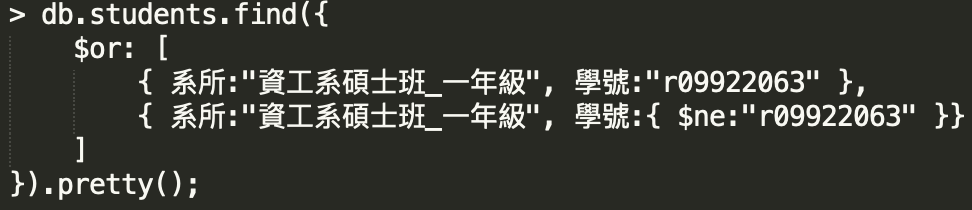


Result:

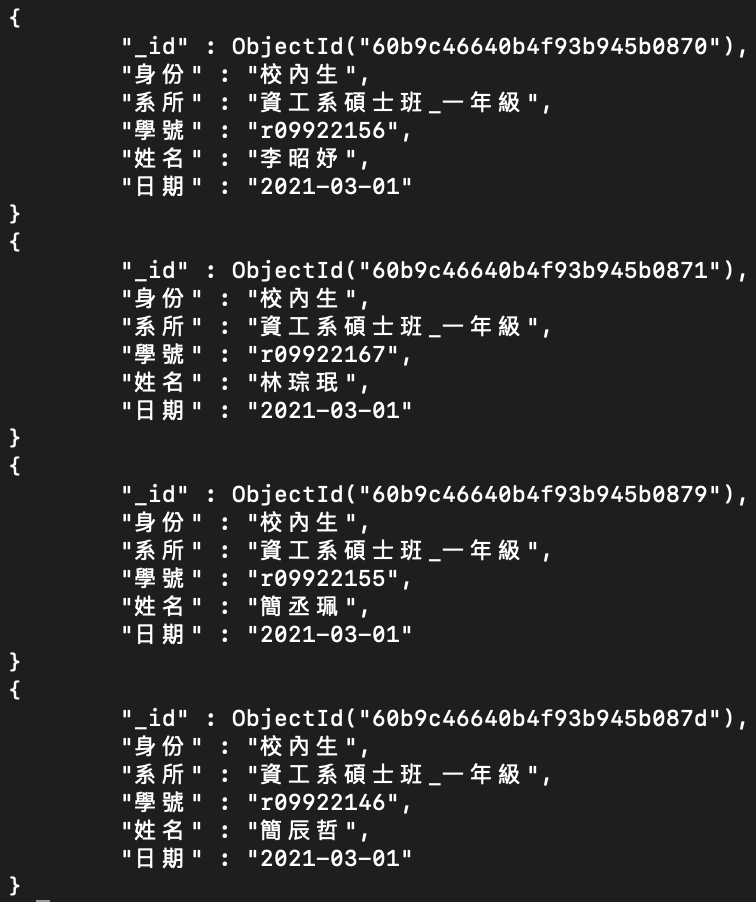


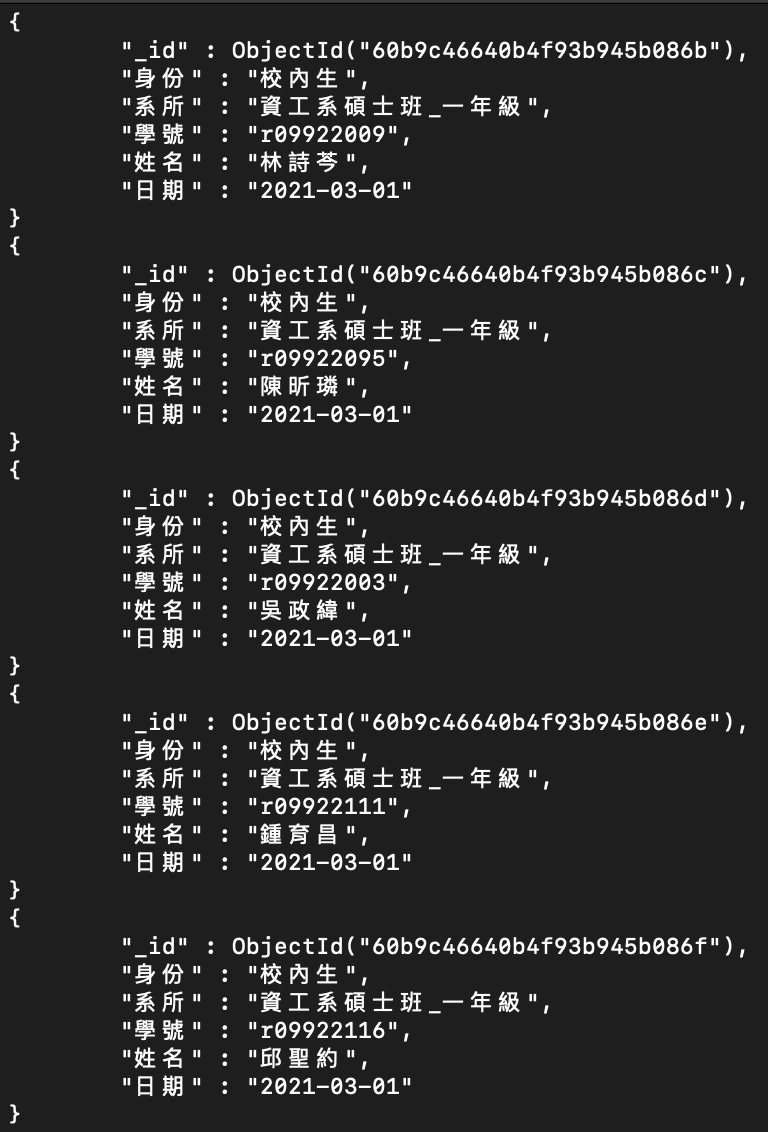
**Task 2**

Code:

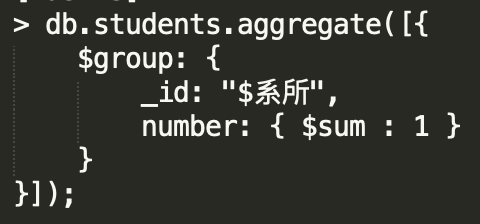


Result:





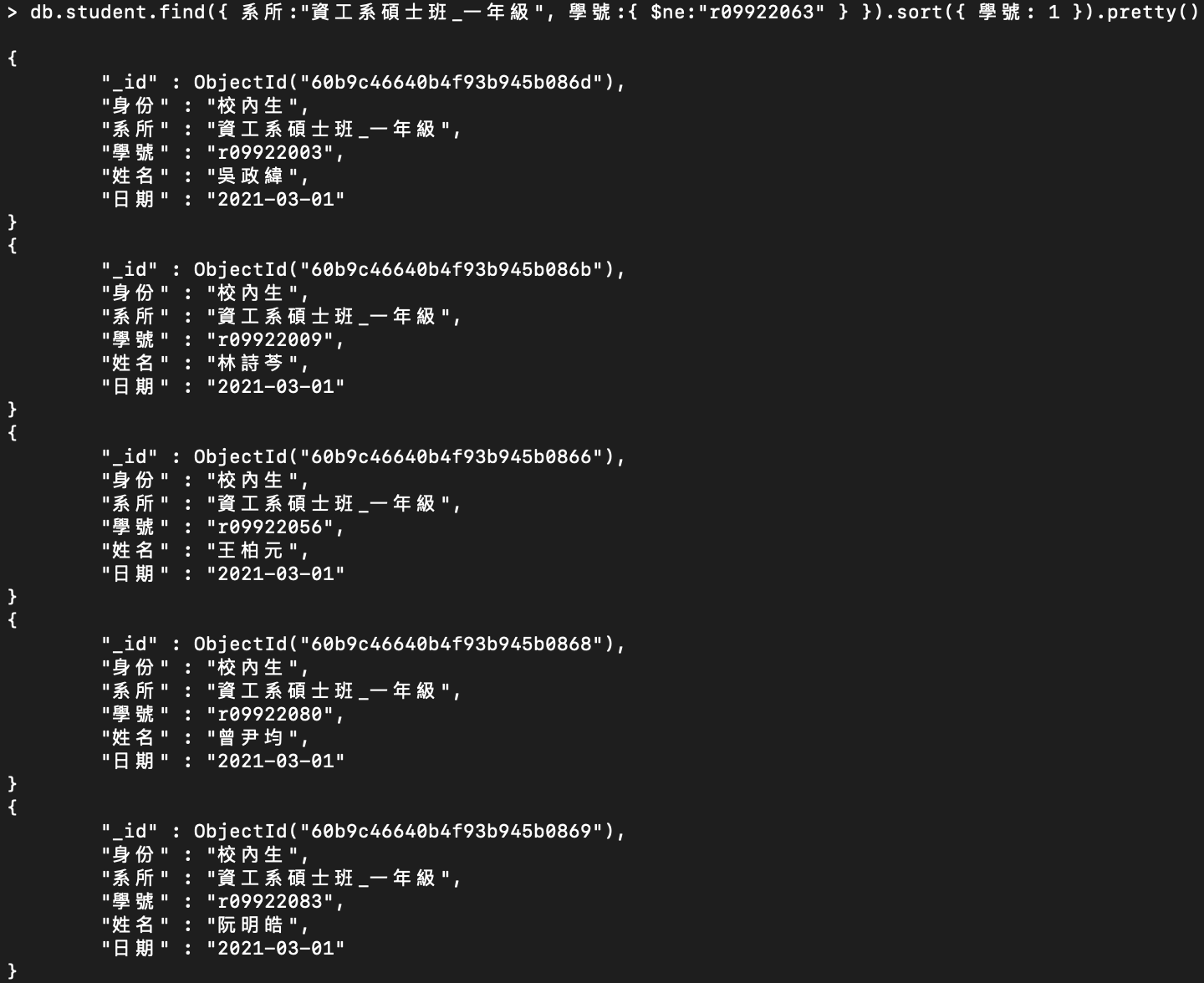
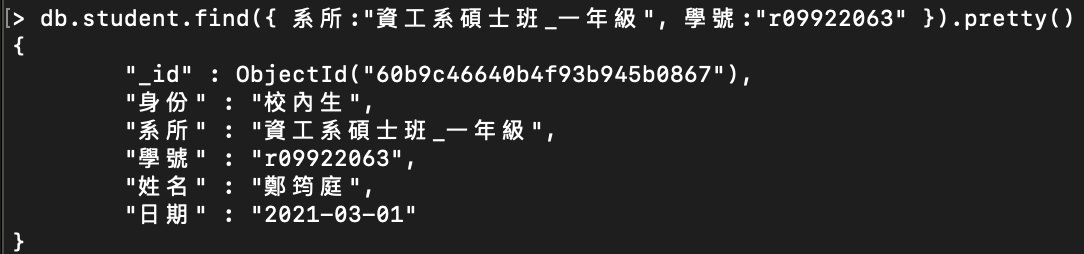
Result:

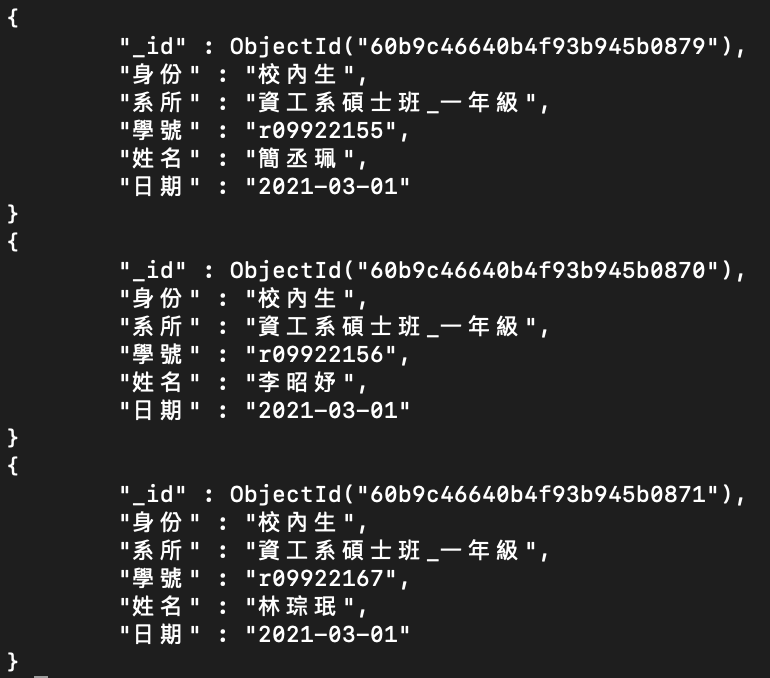
**Task 3**

Code:

Task 4

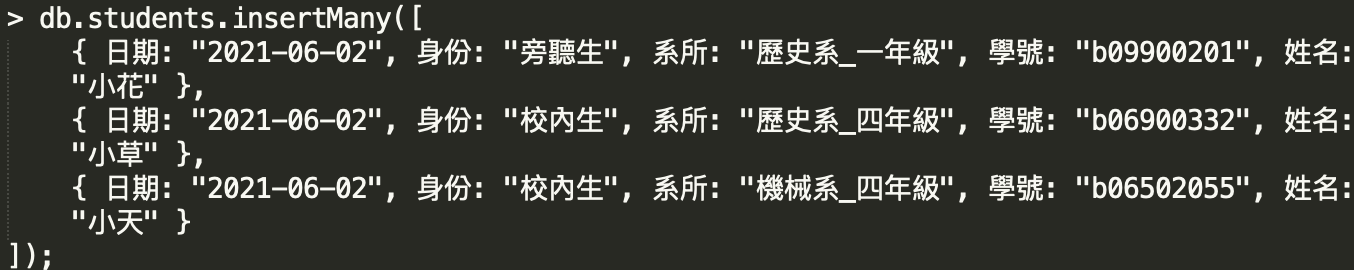
Code:

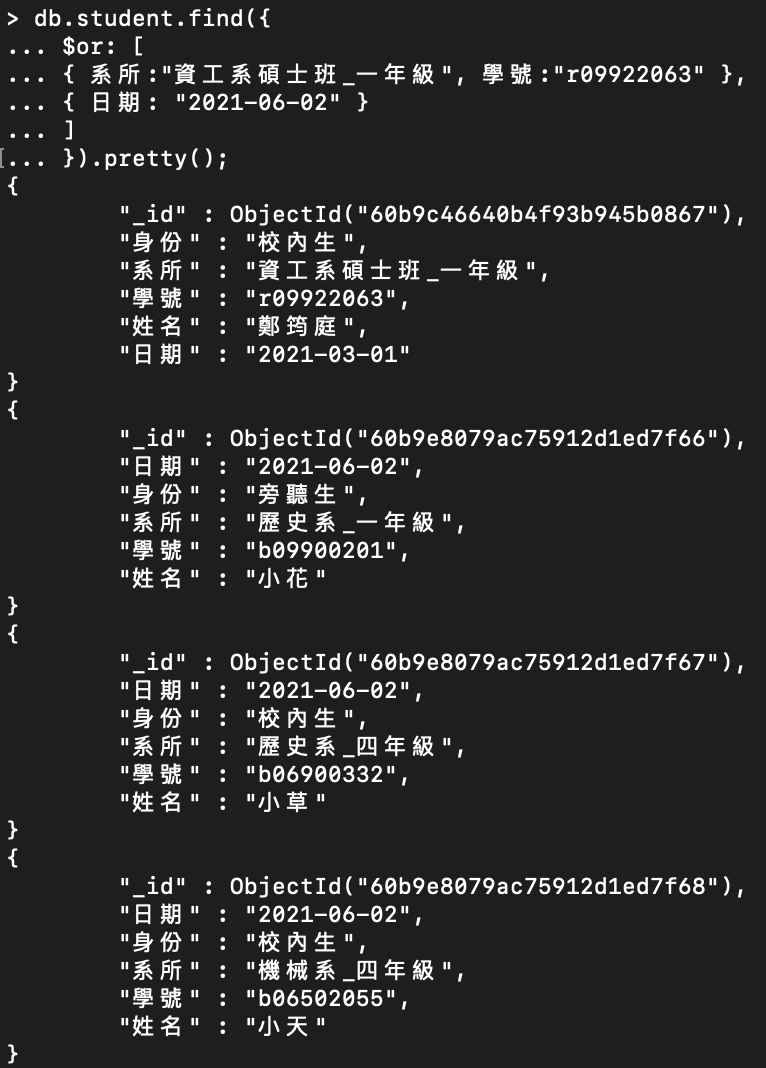
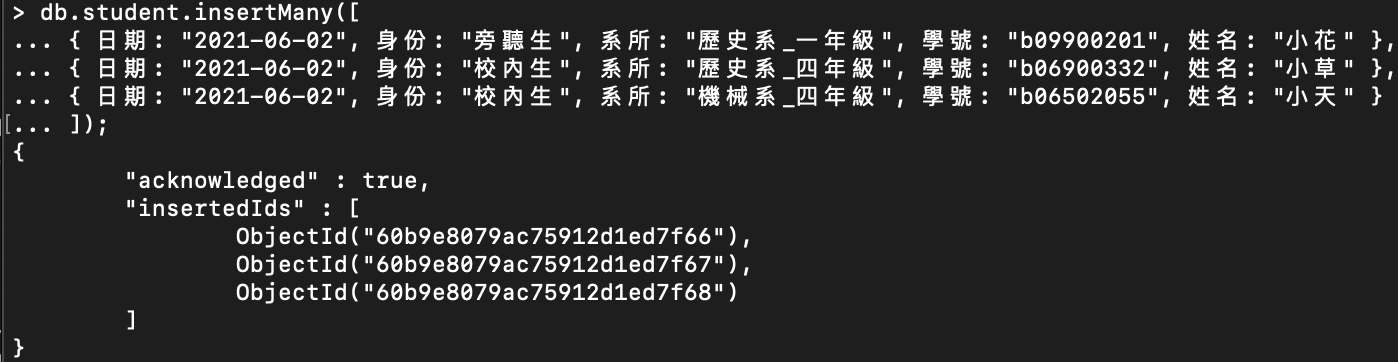
Result:



**Task 5**

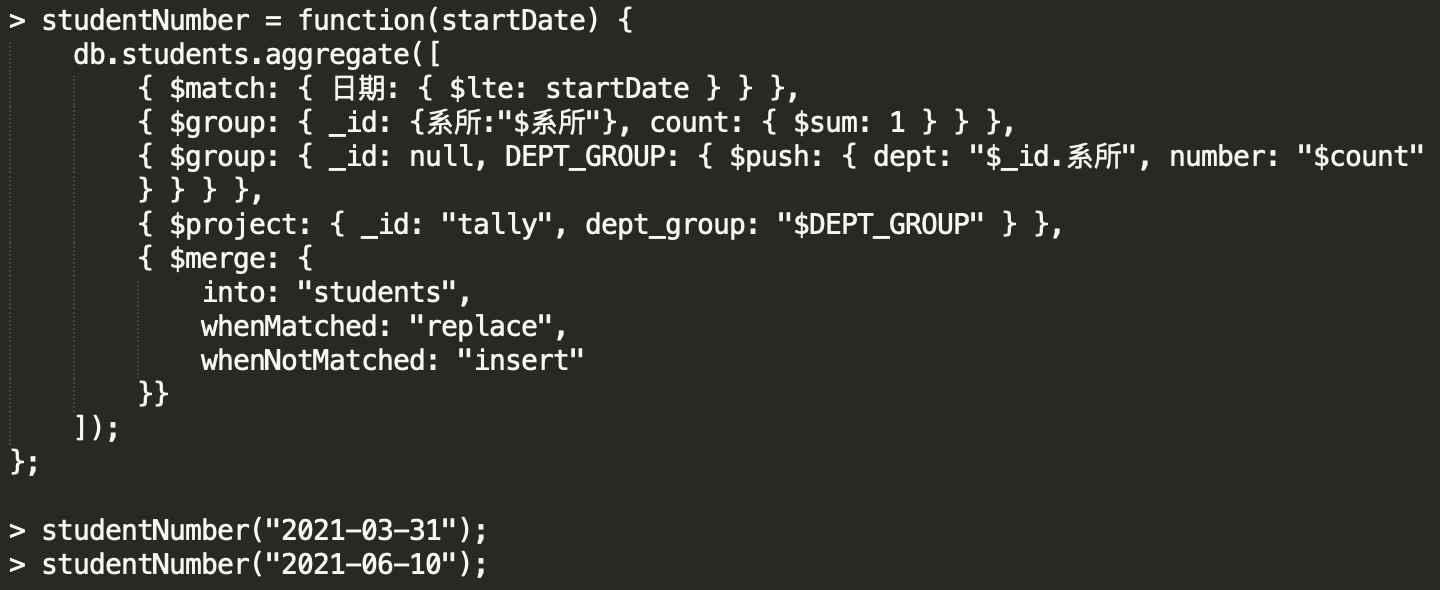
Code:

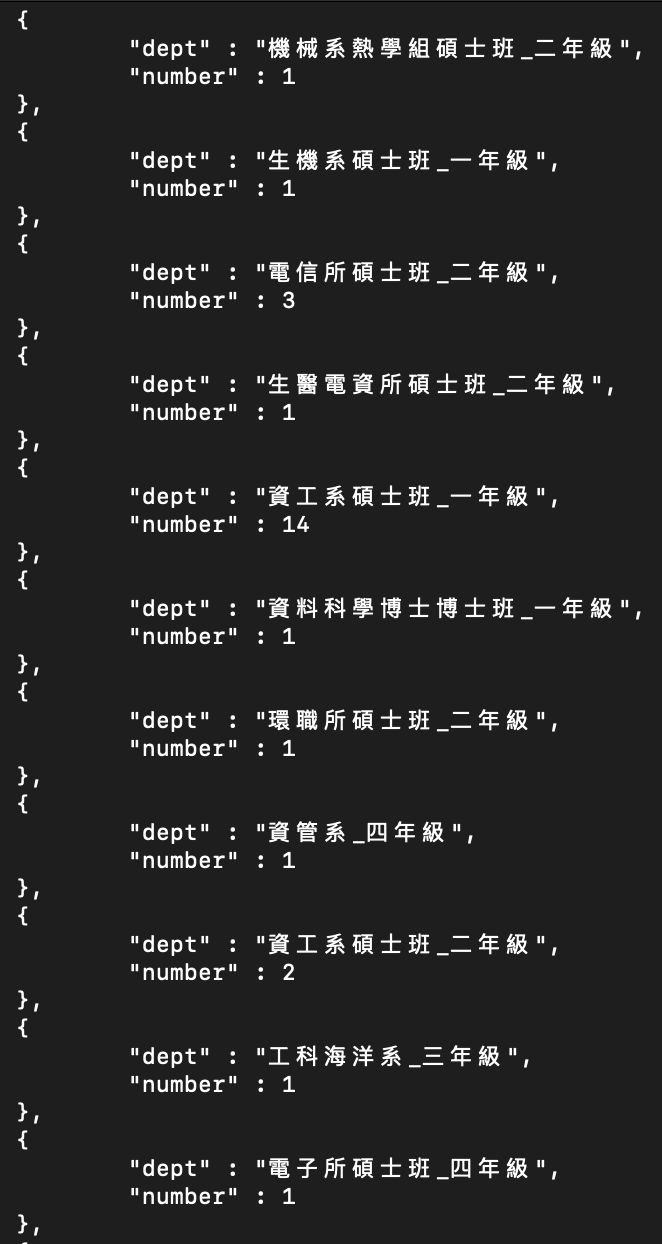


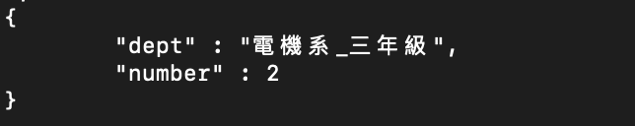
Result:

**Task 6**

Code:



Result:



Second Result:



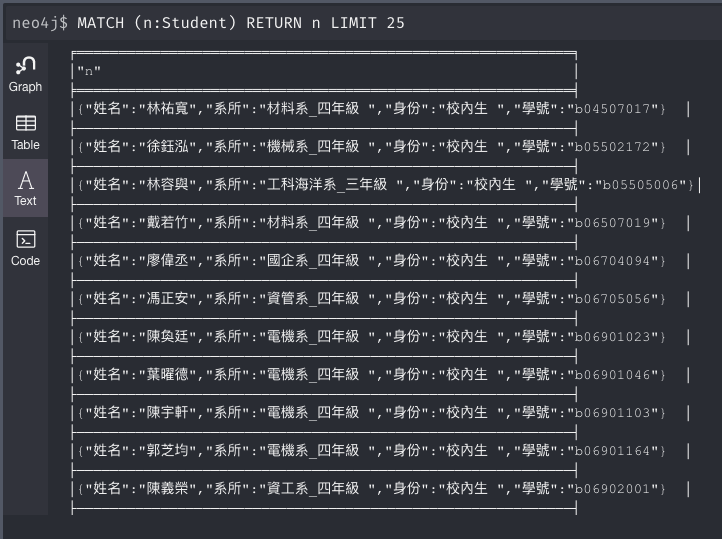
**Part II (Graph DB Basic)**

**Task 1**

Code:

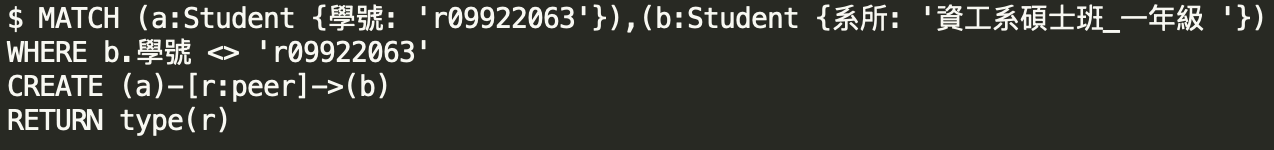


Result:

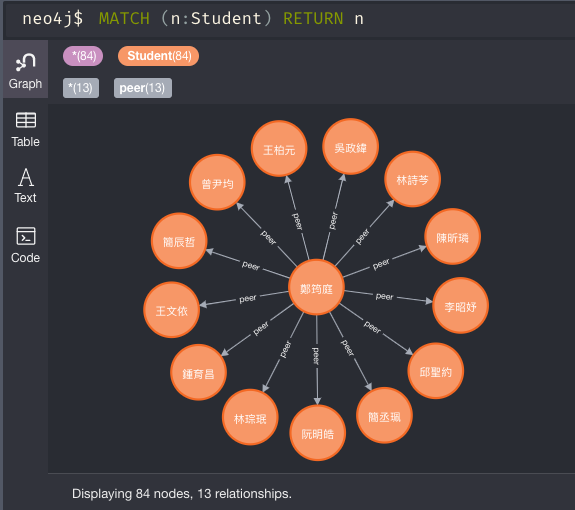


**Task 2**

Code:



Result:

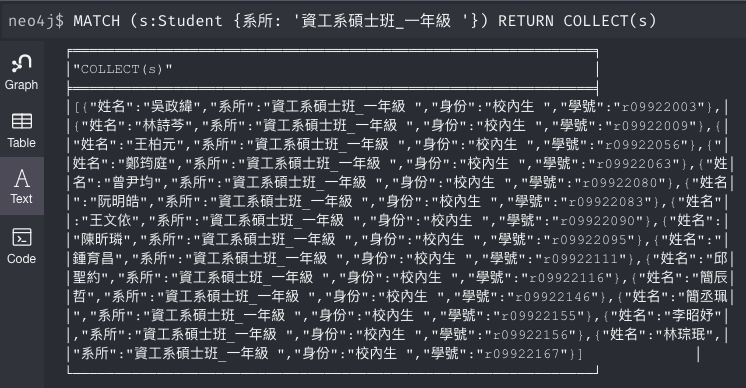


**Task 3**

Code:



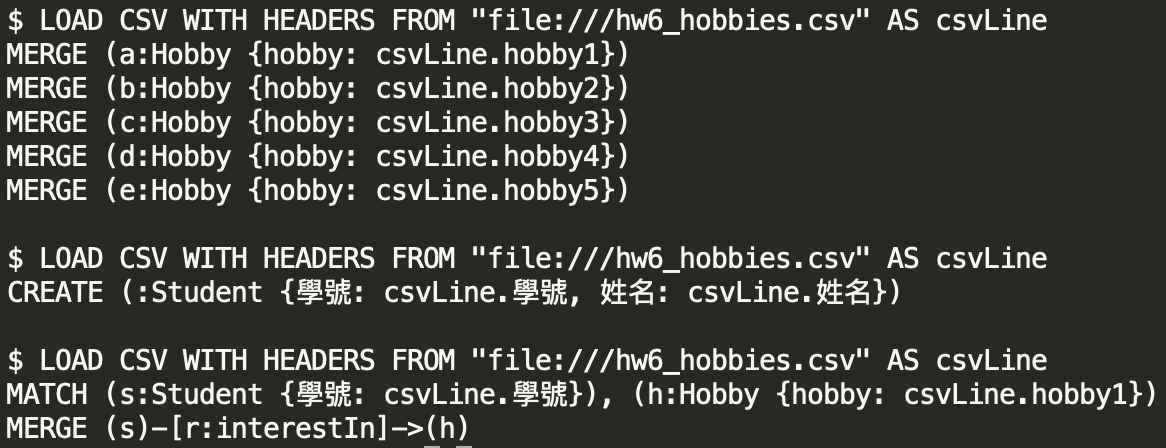
Result:



**Part III 2 (Graph DB Advanced)**

**Task 1**

Code:



從csv檔中讀取五個興趣，並分別存入獨立的Hobby node，Hobby node並不會有duplicate。

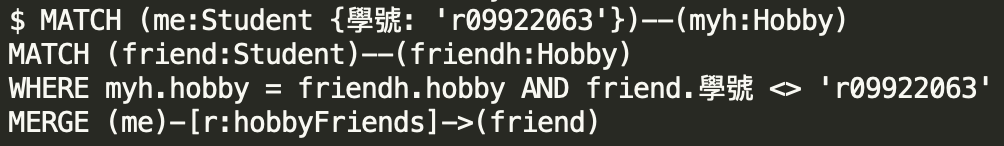
讀取學生名稱與學號存入Student node，並將Student與他所擁有的Hobby連接，relationship的名稱為interestIn。

Result:

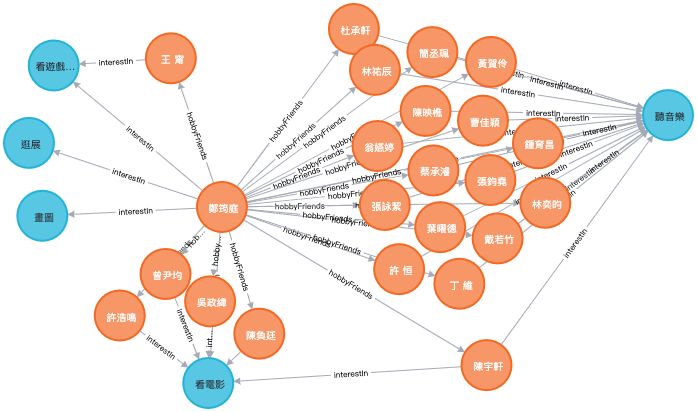


**Before Task 2**

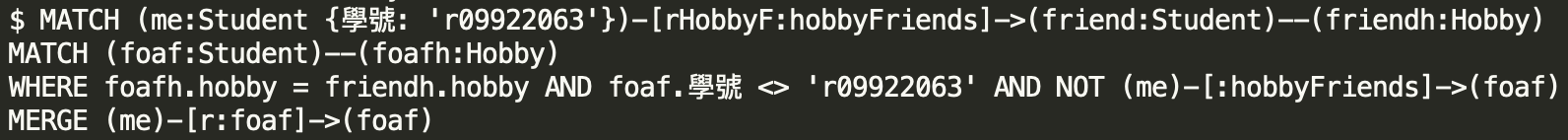
Code:



利用relationship與match找到跟我有相同興趣的人，加上新的relationship。

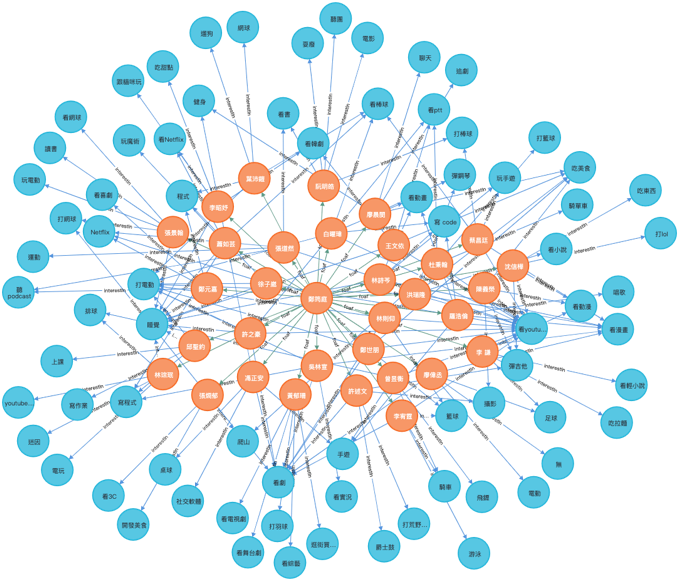


Code:



把朋友的朋友與我加上foaf的relationship，會去除掉我自己以及已經是hobby friends的人。

印出所有foaf跟他們的興趣。這邊並非task 2最終答案，因為我自己也被印出來了。

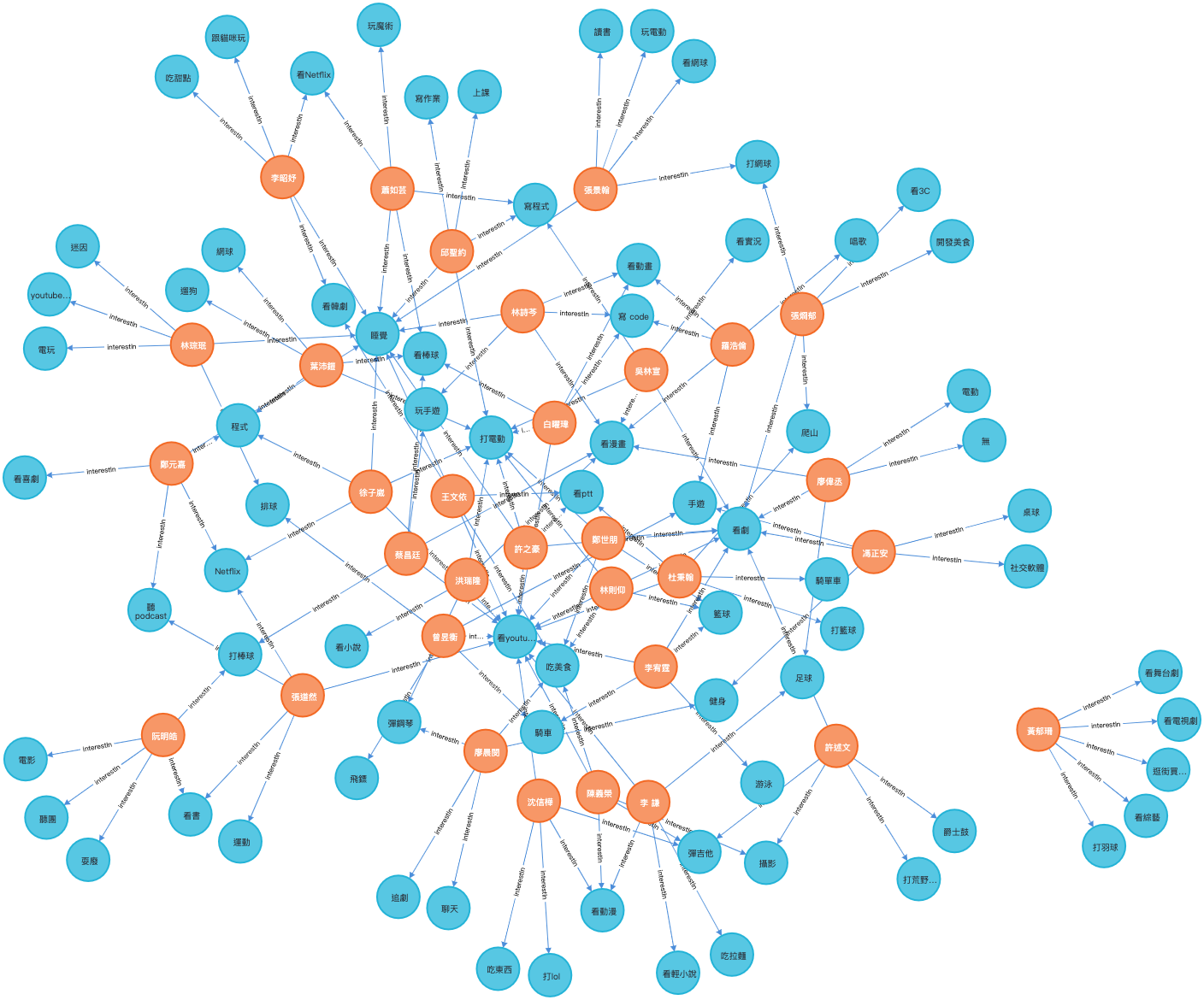


**Task 2**

Code:

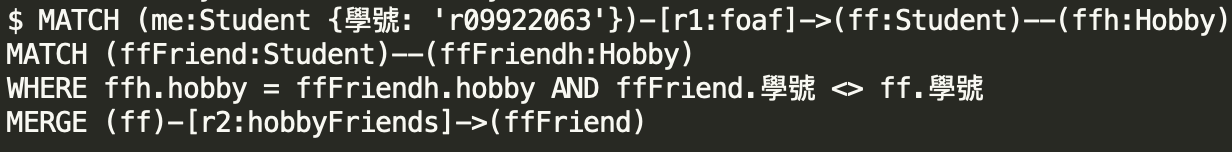


Result:

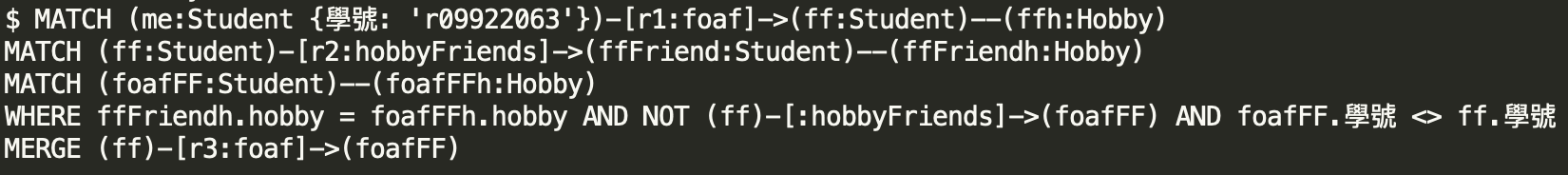


**Task 3**

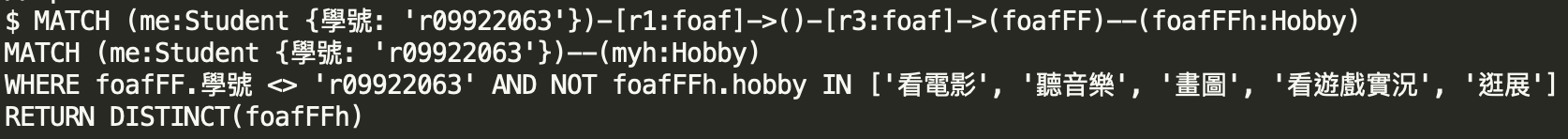
Code:



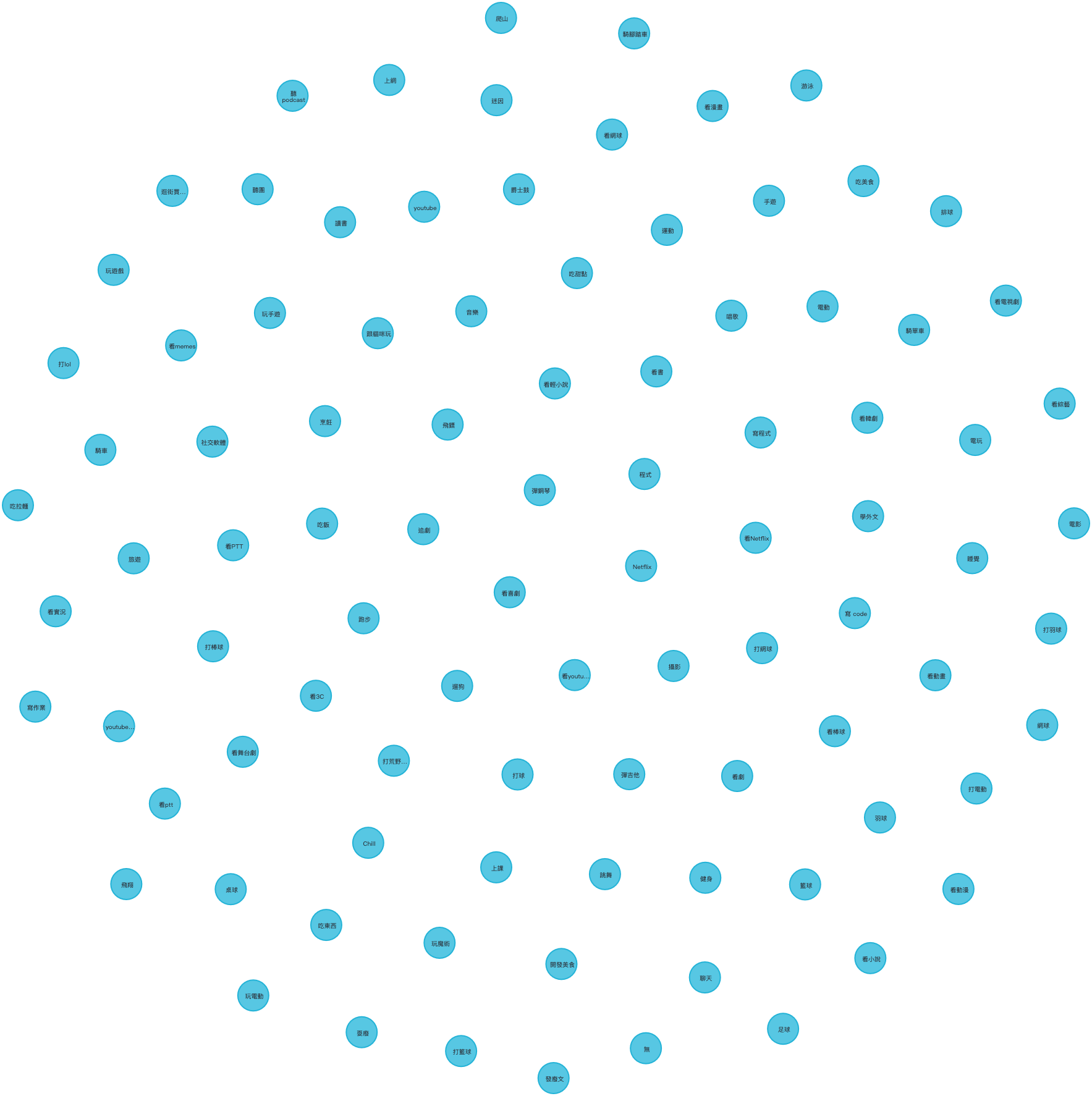
尋找我的foaf的hobby friends，設定一個relationship。



透過hobby friends去尋找我的foaf的 foaf，建立foaf relationship。



取得我的foaf的新hobby。

Result: