

## Assignment # 4

### In Power BI

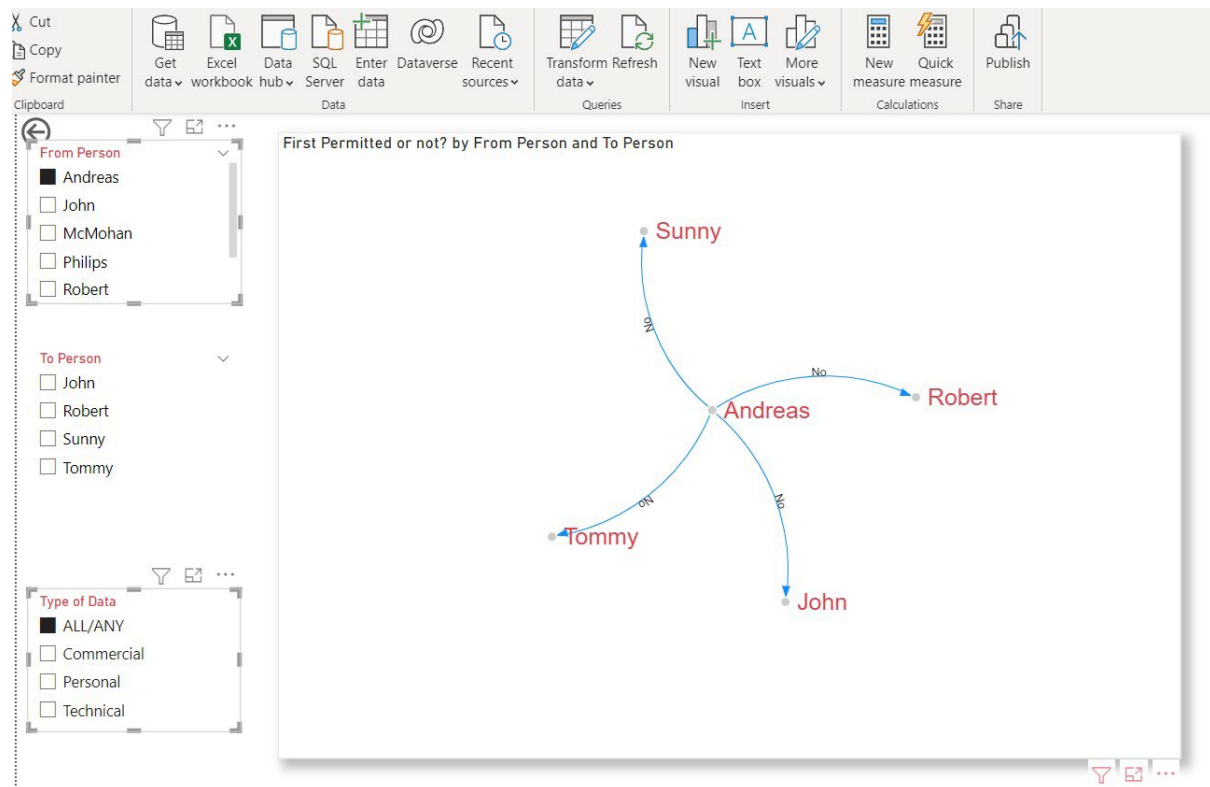
I imported the CSV file in power BI and loaded, it does not need any transformation and all the data are set in 4 columns.

After that I used three slicers that user can change own selection optional, for every item means, **From Person, To Person, Type of Data**.

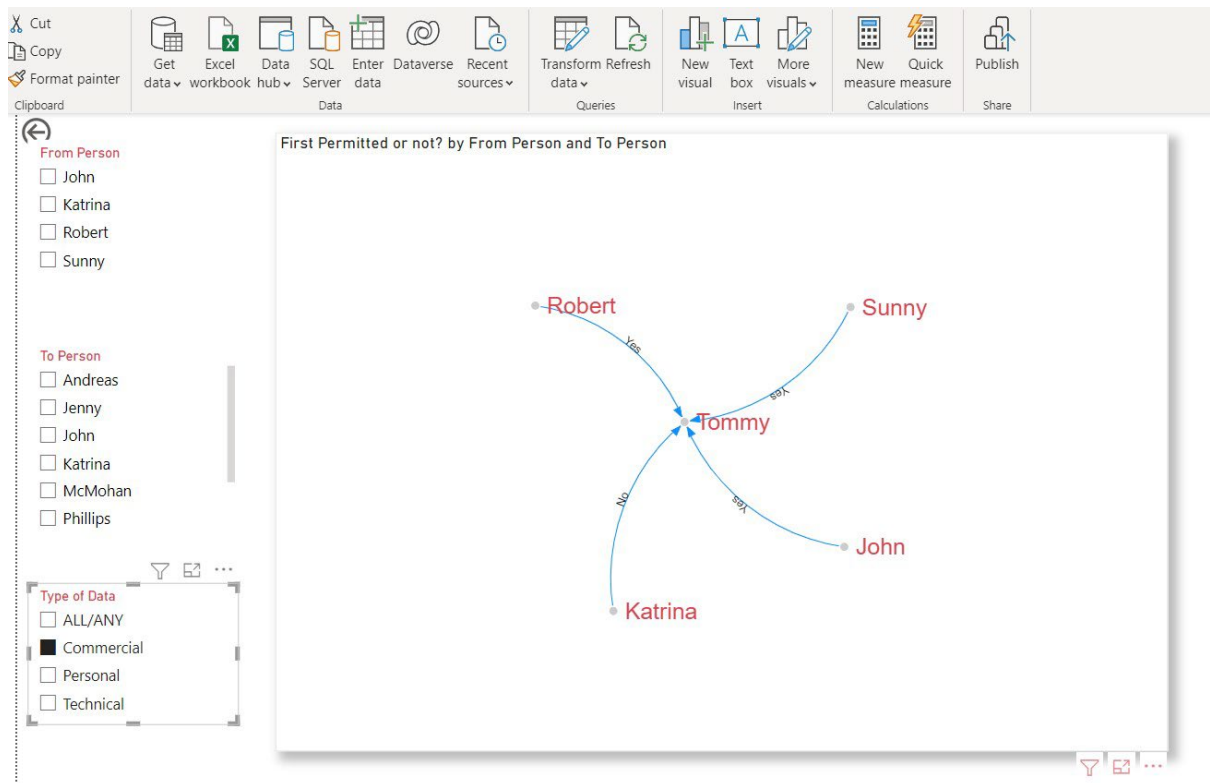
I put Force Directed graph that I imported before and did some settings, now with different selection we can see the connection, permission and automatically the slicers of type show only correct option.

Some pictures from diagram, for example:

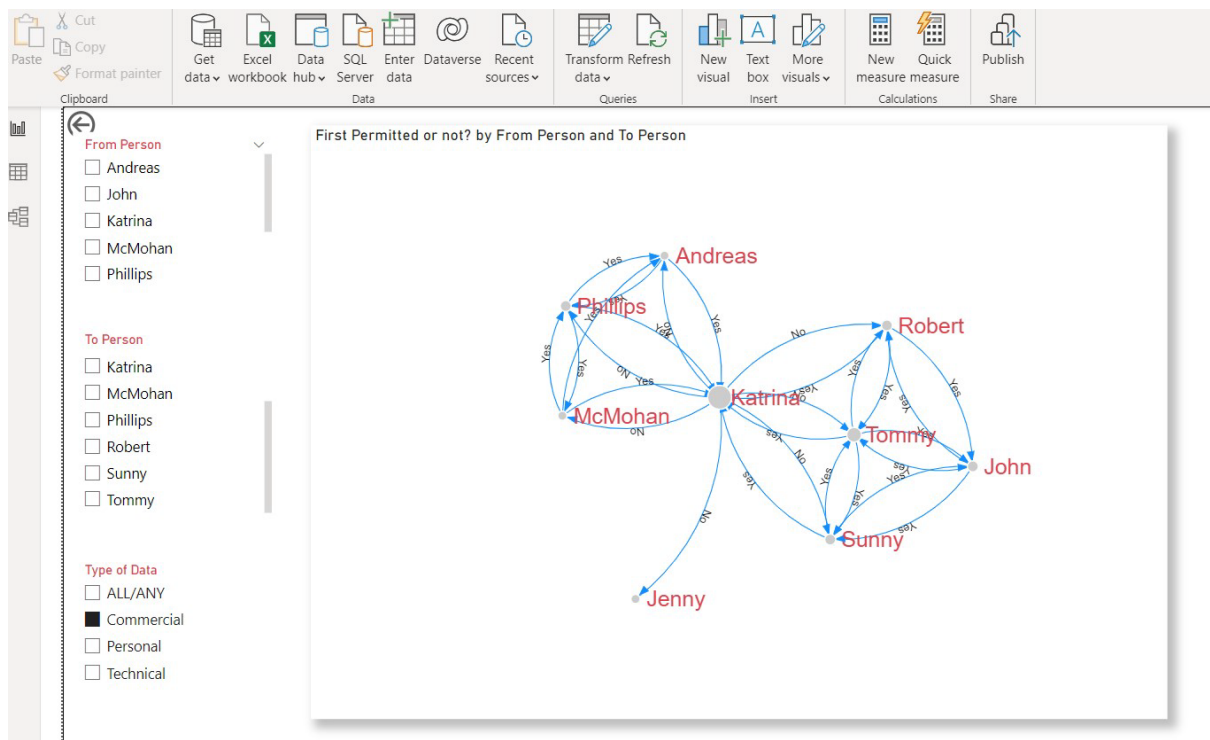
Andreas	Robert	ALL/ANY	No
Andreas	Tommy	ALL/ANY	No
Andreas	Sunny	ALL/ANY	No
Andreas	John	ALL/ANY	No



Another example, just commercial connection with Tommy:



Commercial connections totally :



Although I used another diagram in second tab with Zoomchart network chart and 4slicers.

In Google Collab:

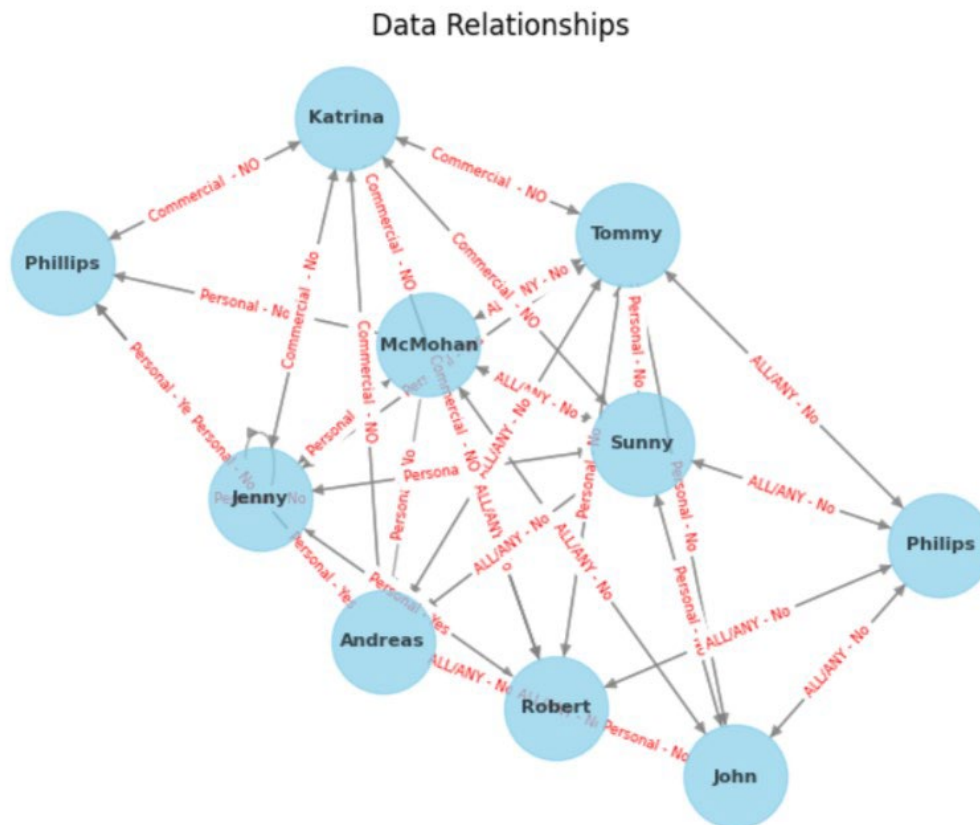
<https://colab.research.google.com/drive/1ZlgefU3yoyJ3hsyruG68lv5sVEXVjL0X?usp=sharing>

I uploaded file from my google drive with the command

```
! gdown --id 1XjxCNYIdi4GqQBeqRA-H3q2Y4annoOJn
```

```
! gdown --id 1XjxCNYIdi4GqQBeqRA-H3q2Y4annoOJn
```

After reading the file, I used network library to show connection types and permissions.



For more clearance, I used for loop, to show different graphs for every item in FROM PERSON. For example: in Google Collab you can see all diagrams.

