

Explore the highest number of diseases

- Explore the highest number of diseases use cypher query

1.Top5 Diseases with the highest number of Principal Diagnosis (PDx)

```
MATCH (n:id)-[:HasPDx]-(a:dx)
RETURN a.dx as PDx,a.term_d as PDx_Name,
sum(ToInteger(n.n_id)) as number_of_patient
ORDER BY number_of_patient DESC
LIMIT 5
```

No	PDx	PDx_Name	number_of_patient
1	"I251"	"Atherosclerotic heart disease"	5378
2	"I500"	"Congestive heart failure"	3453
3	"I214"	"Acute subendocardial myocardial infarction"	3211
4	"I633"	"Cerebral infarction due to thrombosis of cerebral arteries"	2200
5	"I635"	"Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries"	1630

2. Top5 Diseases with the highest number of Secondary Diagnosis (SDx)

```
MATCH (n:id)-[:HasSDx]-(a:dx)
RETURN a.dx as SDx, a.term_d as SDx_Name,
sum(ToInteger(n.n_id)) as number_of_patient
ORDER BY number_of_patient DESC
LIMIT 5
```

No	SDx	SDx_Name	number_of_patient
1	"I10"	"Essential (primary) hypertension"	4647
2	"E789"	"Disorder of lipoprotein metabolism, unspecified"	3159
3	"E119"	"Type 2 diabetes mellitus, without complications"	2023
4	"I251"	"Atherosclerotic heart disease"	1178
5	"I48"	"Atrial fibrillation and flutter"	1070

3. Cypher Query for shows networks of Comorbidity

```
MATCH p=(x:dx)-[:Risk]-(a:dx) RETURN p LIMIT 25
```



