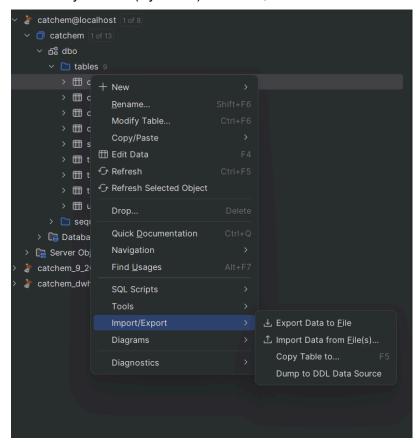
## TASK5: No SQL database for Neo4j

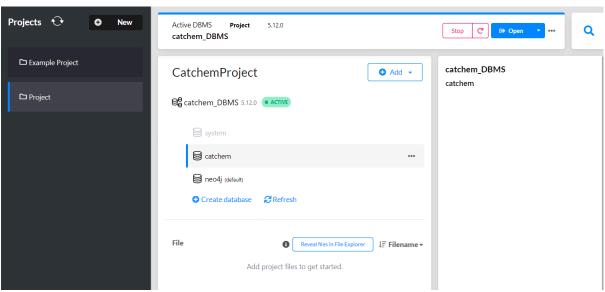
1. Export catchem database to csv.file

Connect your IDE (Pycharm) to SSMS, then choose the table to export as csv file.



2. Create new Project and inside of it, you create new DBMS.

I created new DBMS called "catchem", where I am going to import all csv file from SSMS.



3. How to import csv file to Neo4j DBMS

Create an index when it takes too much time to load CSV to database so that it can load data faster.

```
2 :auto LOAD CSV WITH HEADERS FROM 'file:///stage2.csv' AS row
3 CALL {
4
       WITH row
5
       MERGE (s:Stage {id: row.id})
6
       SET s.container size = toInteger(row.container size),
           s.description = row.description,
7
           s.latitude = toFloat(row.latitude),
8
           s.longitude = toFloat(row.longitude),
9
           s.sequence number = toInteger(row.sequence number),
10
           s.type = toInteger(row.type),
11
           s.visibility = toInteger(row.visibility)
12
   } IN TRANSACTIONS OF 1000 ROWS;
```

#### Make relationship between city and country



### Make relationship between treasure and city

```
:auto LOAD CSV WITH HEADERS FROM 'file:///treasure2.csv' AS row
CALL {
    WITH row
    MATCH (t:Treasure {treasure_id: row.id})
    MATCH (c:City {city_id: row.city_city_id})
    MERGE (t)-[:LOCATED_IN]→(c)
} IN TRANSACTIONS OF 1000 ROWS;

Created 13913 relationships, completed after 203494 ms.
```

#### Make relationship between hunter and treasure found

```
1 :auto LOAD CSV WITH HEADERS FROM 'file:///treasure_log2.csv' AS row

2 CALL {
3  | WITH row
4  | MATCH (h:Hunter {id: row.hunter_id})
5  | MATCH (t:Treasure {treasure_id: row.treasure_id})
6  | MERGE (h)-[:FOUND]→(t)
7  } IN TRANSACTIONS OF 1000 ROWS;

Created 14762 relationships, completed after 445662 ms.
```

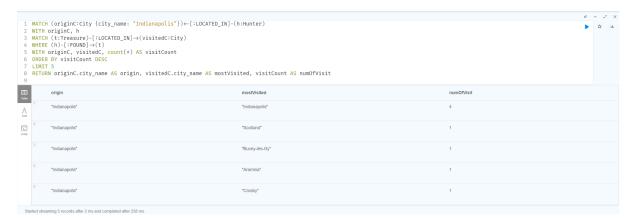
### Make relationship between treasure and owner

```
:auto LOAD CSV WITH HEADERS FROM 'file:///treasure2.csv' AS row
CALL {
    WITH row
    MATCH (h:Hunter {id: row.owner_id})
    MATCH (t:Treasure {treasure_id: row.id})
    MERGE (h)-[:OWNS]→(t)
} IN TRANSACTIONS OF 1000 ROWS;

Created 13913 relationships, completed after 340399 ms.
```

#### Research Question

For a given city, identify which other city is strongly linked to it. You do this by checking which other cities the hunters in that city also visit.



Create a query to find "fellow hunters" who do similar hunts to yourself. These are hunters who often sought the same treasures.



# Top 10 Dedicators

