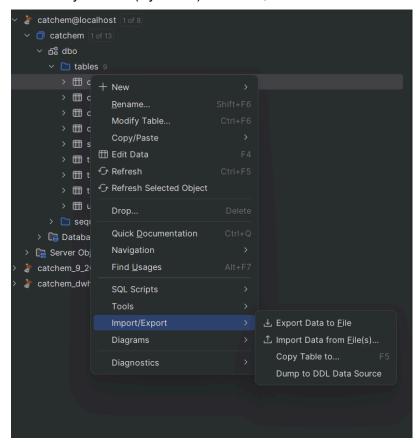
## TASK5: No SQL database for Neo4j

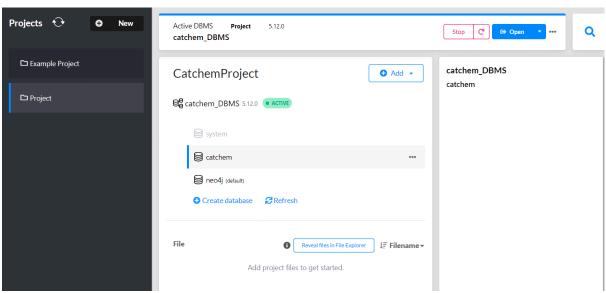
1. Export catchem database to csv.file

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.

```
CREATE INDEX city_id_index FOR (ci:City) ON (ci:city_id)
```

Make relationship between city and country

```
:auto LOAD CSV WITH HEADERS FROM ''file:///city2.csv' AS row
CALL {
     WITH row
     MATCH (c:City {city_id: row.city_id})
     MATCH (co:County {code: row.contry_code})
     MERGE (c)-[:LOCATED_IN]->(co)
} IN TRANSACTIONS OF 1000 ROWS;
```

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;
```

Make a relationship between hunter and treasure found

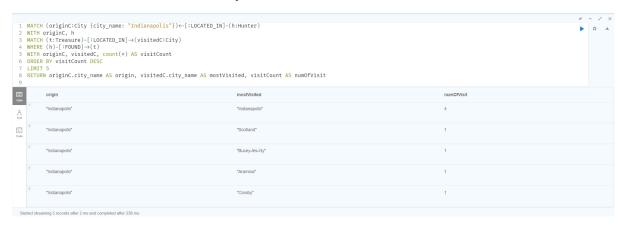
```
:auto LOAD CSV WITH HEADERS FROM 'file:///treasure_log2.csv' AS row
CALL {
WITH row
MATCH (h:Hunter {id: row.hunter_id})
MATCH (t:Treasure {treasure_id: row.treasure_id})
MERGE (h)-[:FOUND]->(t)
} IN TRANSACTIONS OF 1000 ROWS;
```

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.hunter_id})
MATCH (t:Treasure {treasure_id: row.treasure_id})
MERGE (h)-[:OWNS]->(t)
} IN TRANSACTIONS OF 1000 ROWS;
```

## **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

