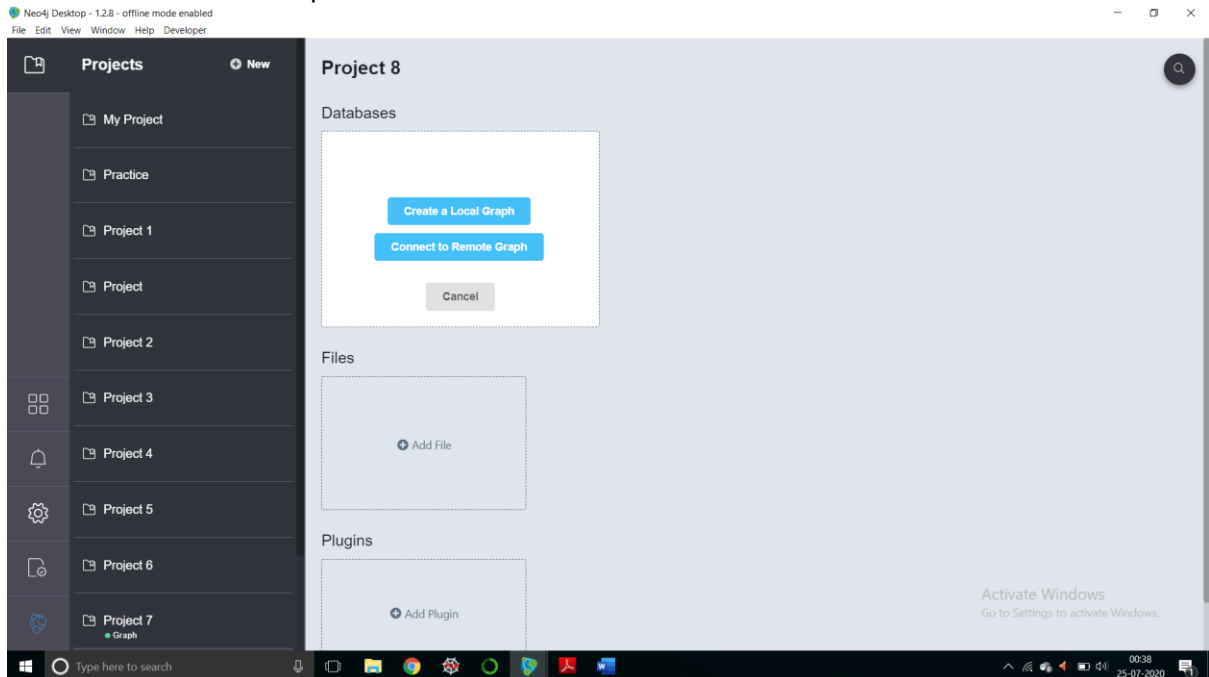


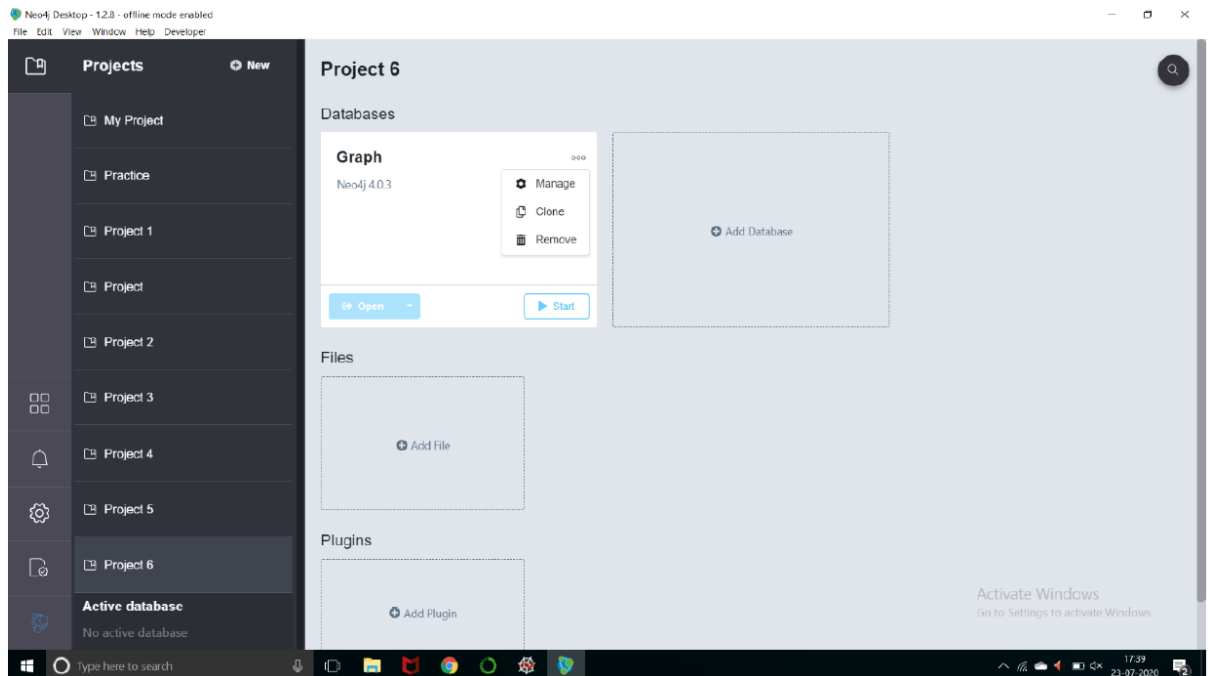
Steps to create Neo4j Graph from database

Create a new project on Neo4j with your username and password

Select: Create a Local Graph

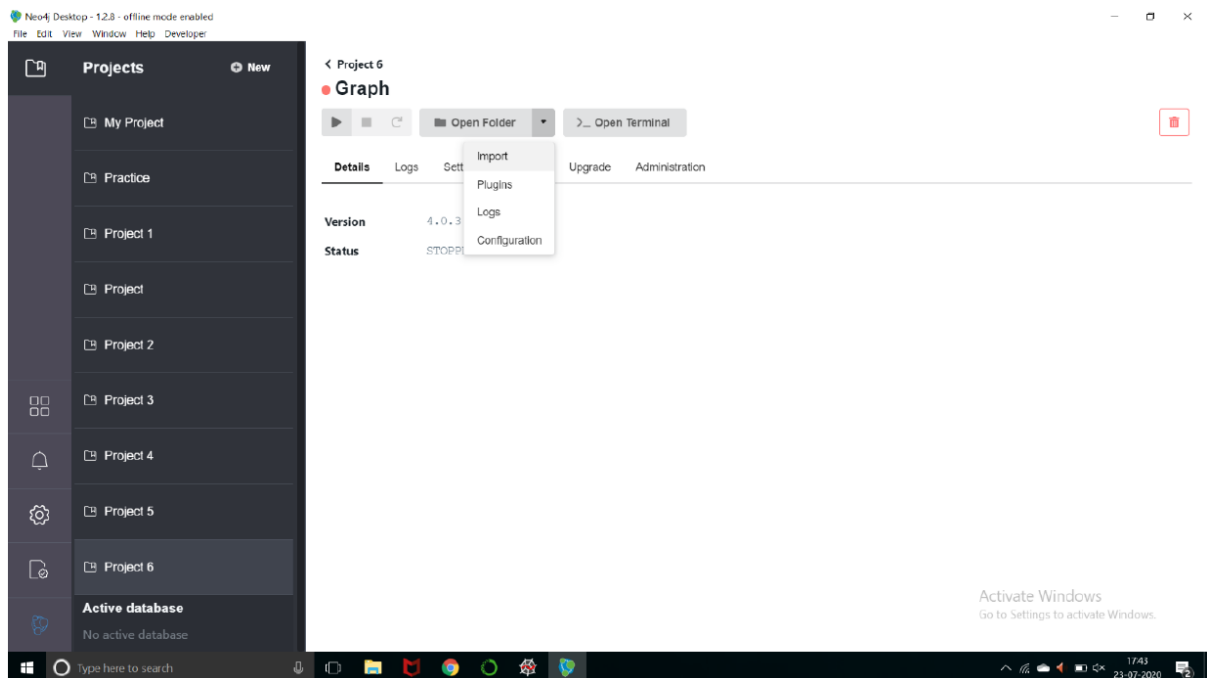


Click on the 3 horizontal dots -> Manage

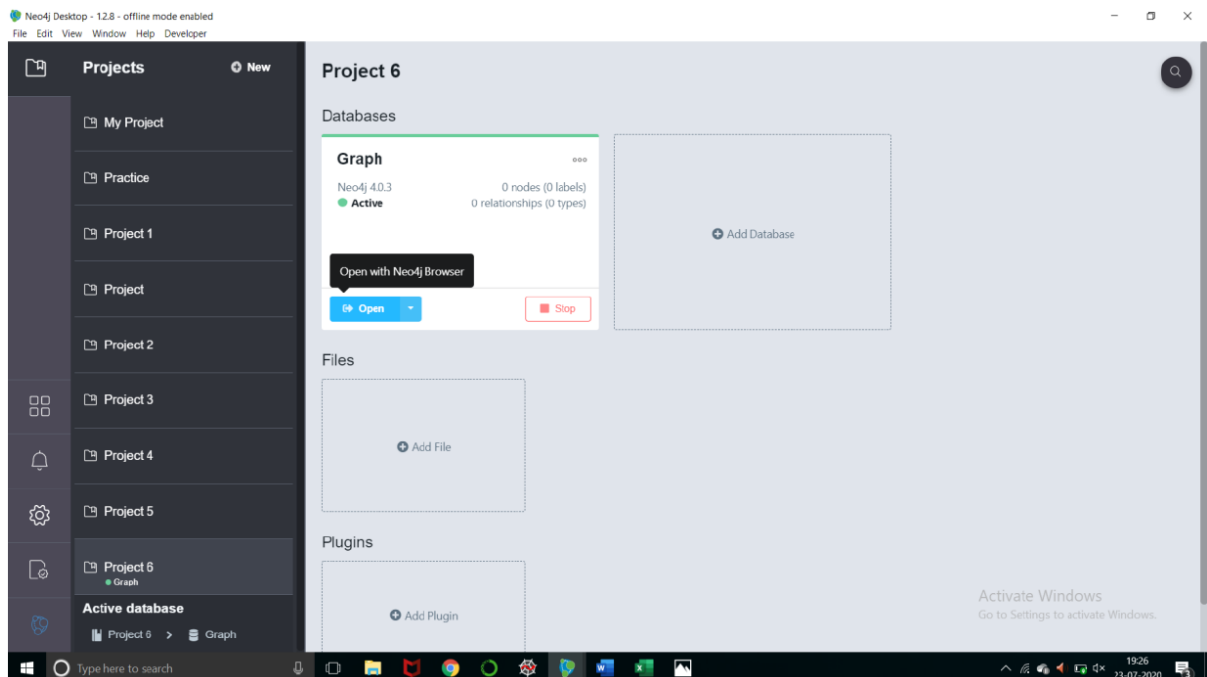


Click on open folder, a drop-down menu will appear ->Click import -> A folder will open ->

Put data.csv (the csv file containing entities) file in that folder and close the import folder-> Go back to the project.



Start the project and open the neo4jwebpage.



Give the following commands and run:

LOAD CSV FROM 'file:///data.csv' AS row

RETURN count(row)

The screenshot shows the Neo4j Browser interface. The command bar contains the query: `neo4j$ LOAD CSV FROM 'file:///data.csv' AS row RETURN count(row)`. The results pane displays a table with one column, `count(row)`, and one row with the value `10227`. Below the results, a status message reads: "Started streaming 1 records after 38810 ms and completed after 53888 ms." The bottom pane shows the Neo4j logo and several informational cards: "Learn about Neo4j", "Jump into code", "System information", and an "Activate Windows" watermark.

count(row)
10227

LOAD CSV with headers FROM 'file:///data.csv' AS row

with row limit 1 return keys(row)

The screenshot shows the Neo4j Browser interface with two queries. The first query is: `neo4j$ LOAD CSV with headers FROM 'file:///data.csv' AS row with row limit 1 return keys(row)`. The results pane shows a table with one column, `keys(row)`, and one row containing a list of keys: `["sentence", "subject", "relation", "object"]`. Below this, the second query is entered: `neo4j$ LOAD CSV FROM 'file:///data.csv' AS row RETURN count(row)`. The results pane for the second query shows a table with one column, `count(row)`, and one row with the value `10227`. A status message for the first query reads: "Started streaming 1 records after 20 ms and completed after 589 ms." The bottom pane shows the Neo4j logo and informational cards, including the "Activate Windows" watermark.

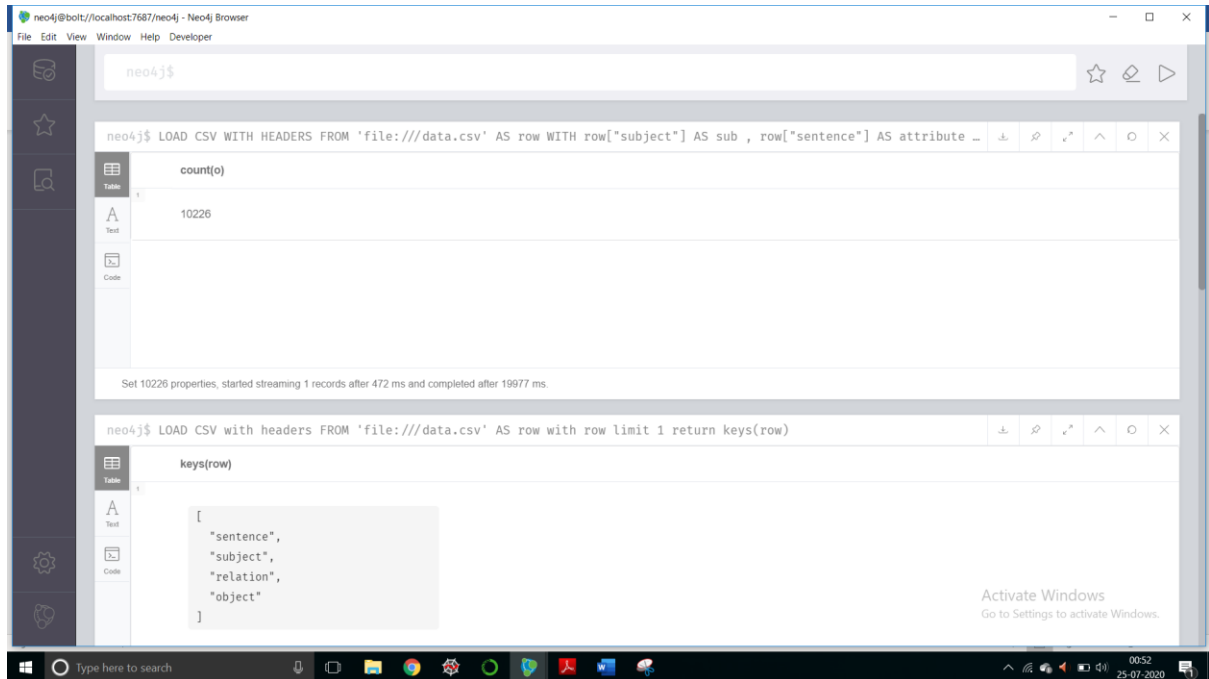
keys(row)
<code>["sentence", "subject", "relation", "object"]</code>

count(row)
10227

```

LOAD CSV WITH HEADERS FROM 'file:///data.csv' AS row
WITH row["subject"] AS sub , row["sentence"] AS attribute
MERGE (o:Order {sub: sub})
      SET o.attribute = attribute
RETURN count(o)

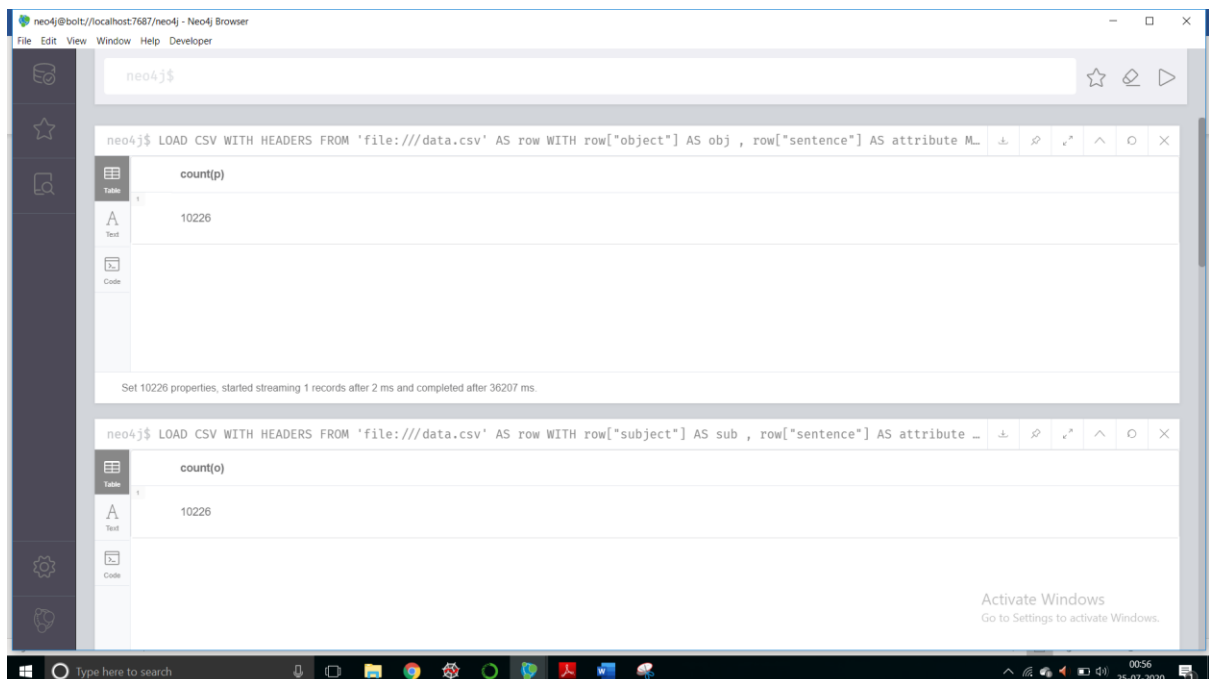
```



```

LOAD CSV WITH HEADERS FROM 'file:///data.csv' AS row
WITH row["object"] AS obj , row["sentence"] AS attribute
MERGE (p:Pred {obj: obj})
SET p.attribute = attribute
RETURN count(p)

```



```
LOAD CSV WITH HEADERS FROM 'file:///data.csv' AS row WITH row["relation"] AS re, row["object"]
As obj,row["subject"] As sub MATCH (p:Pred {obj: obj}) MATCH (o:Order {sub: sub}) MERGE (o)-
[rel:CONTAINS {re: re}]->(p) RETURN count(rel)
```

The screenshot displays the Neo4j Browser application. The top menu bar includes File, Edit, View, Window, Help, and Developer. The address bar shows the URL neo4j@bolt://localhost:7687/neo4j - Neo4j Browser.

The main interface is divided into a left sidebar with navigation icons (Home, Star, Recent, etc.) and a main content area. The content area shows two Cypher queries and their results.

Query 1:

```
neo4j$ LOAD CSV WITH HEADERS FROM 'file:///data.csv' AS row WITH row["relation"] AS re, row["object"] AS obj, row["subj_"]
```

Result 1:

count(re)
10226

Started streaming 1 records after 2 ms and completed after 39137 ms.

Query 2:

```
neo4j$ LOAD CSV WITH HEADERS FROM 'file:///data.csv' AS row WITH row["object"] AS obj , row["sentence"] AS attribute_M_
```

Result 2:

count(p)
10226

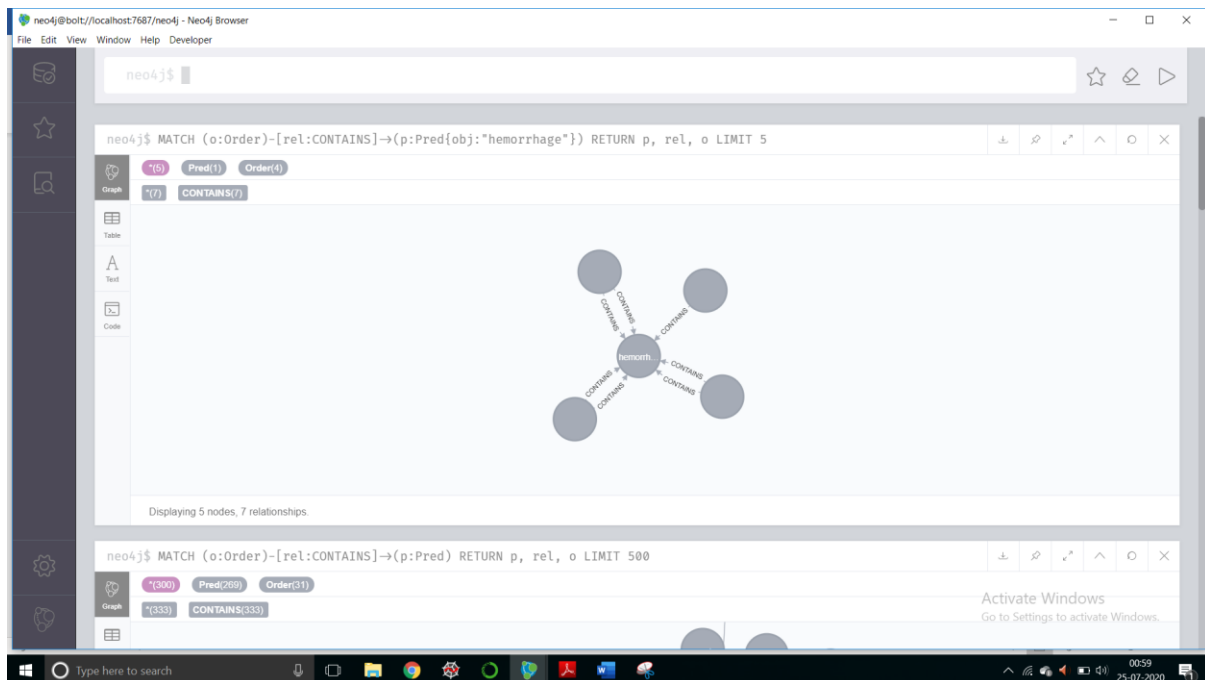
At the bottom right, there is a message: "Activate Windows. Go to Settings to activate Windows."

```
MATCH (o:Order)-[rel:CONTAINS]->(p:Pred)
RETURN p, rel, o LIMIT 500
```

[illegible]

SAMPLE QUERY:

```
MATCH (o:Order)-[rel:CONTAINS]->(p:Pred{obj:"hemorrhage"})  
RETURN p, rel, o LIMIT 5
```



Possible Changes you can achieve in building knowledge Graph:

Large volume of data in neo4j can be imported by changing configuration of the project in Neo4j settings by following required steps. The current file has approx.10K rows. The following links might be useful:

<https://community.neo4j.com/t/load-large-volume-of-data-in-neo4j/14571>

<https://groups.google.com/forum/m/#!topic/neo4j/jSFtnD5OHxg>