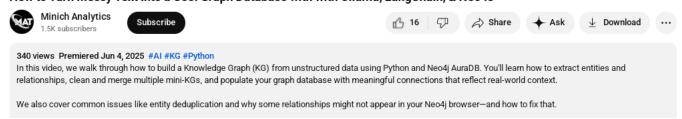
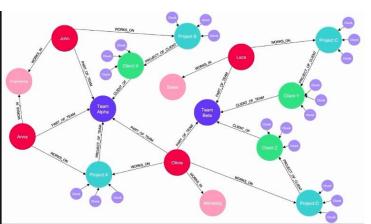
How to Turn Messy Text Into a Cool Graph Database with with Ollama, LangChain, & Neo4J



GraphRAG with Ollama, LangChain, & Neo4j

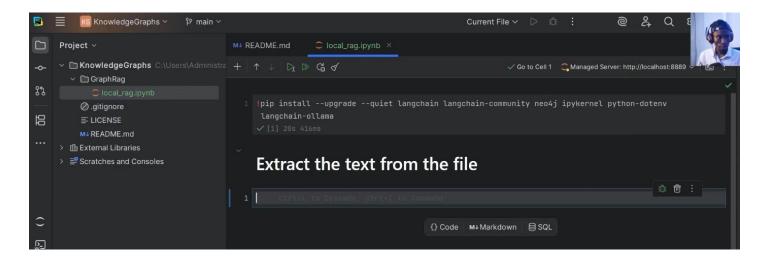


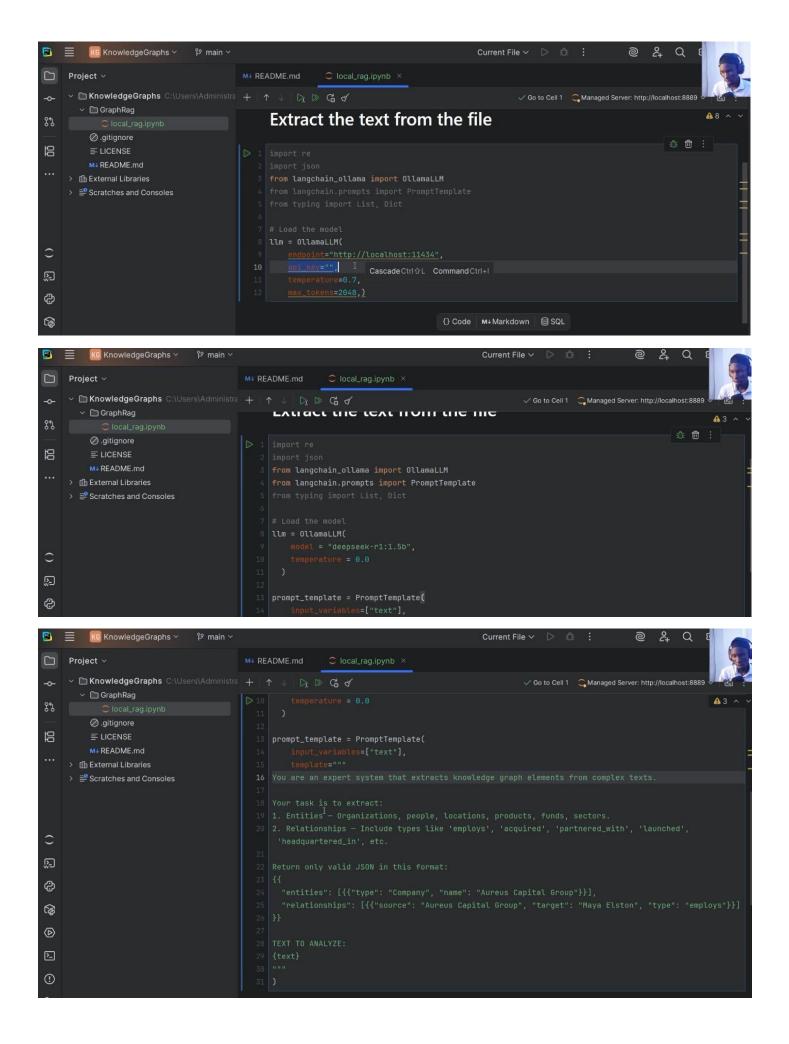
Goal:

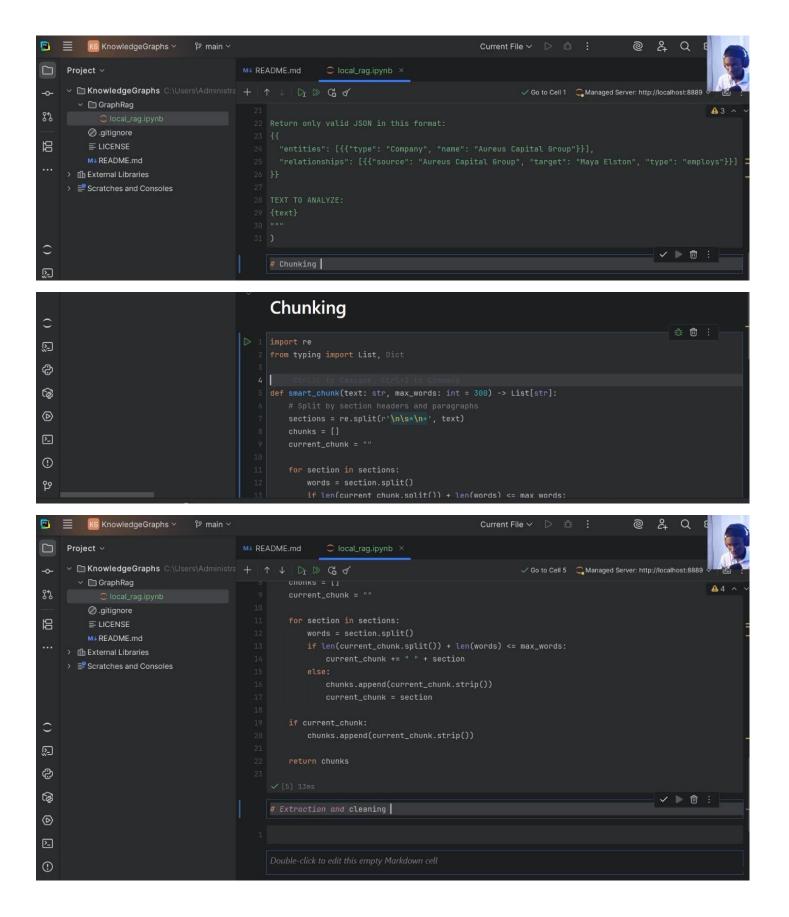
Build a Knowledge Graph from text and load it into Neo4j AuraDB

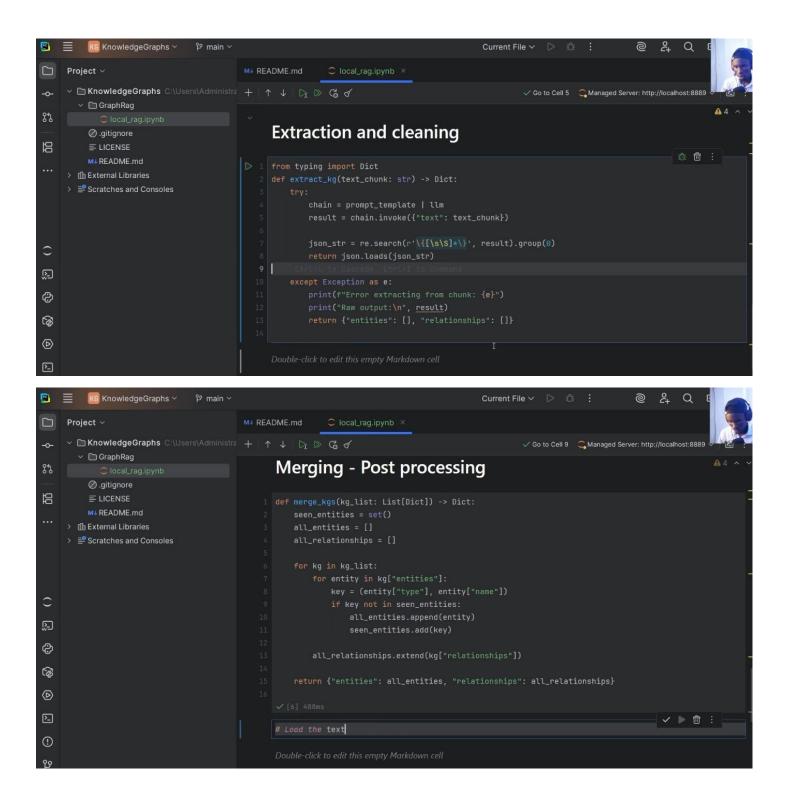
Steps We'll Cover:

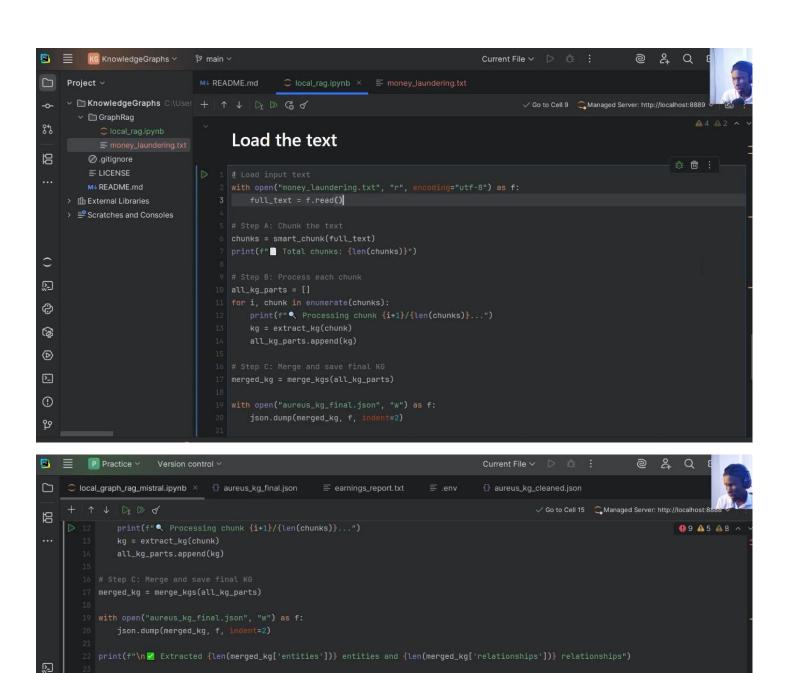
- 1. Extract entities and relationships from text
- 2. Clean and structure the data into JSON
- 3. Load nodes & relationships into Neo4j
- 4. Visualize and query the graph











First, looking for entities: Organizations, people, locations, products, funds, sectors. The text mentions Aureus Capital Group, which

☐ Total chunks: 2

print("\nTOP ENTITIES:")

Raw output:

6

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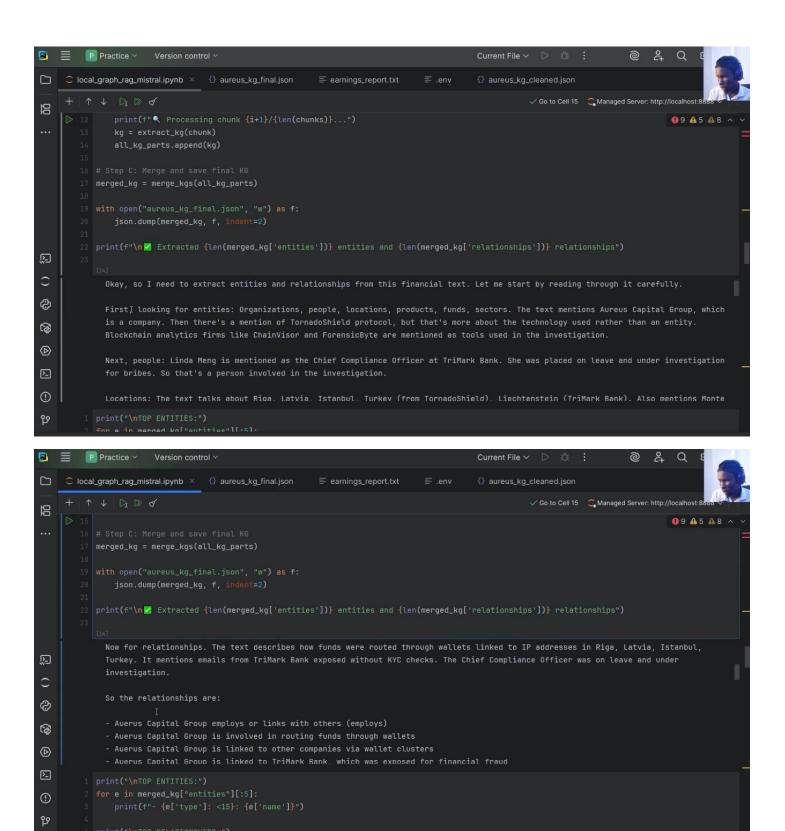
①

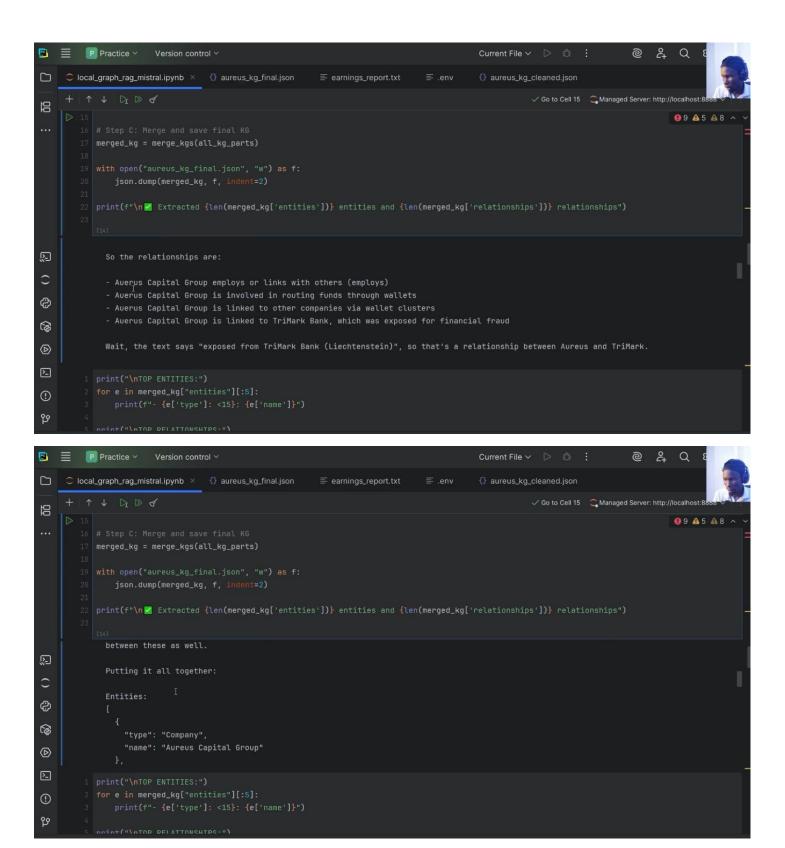
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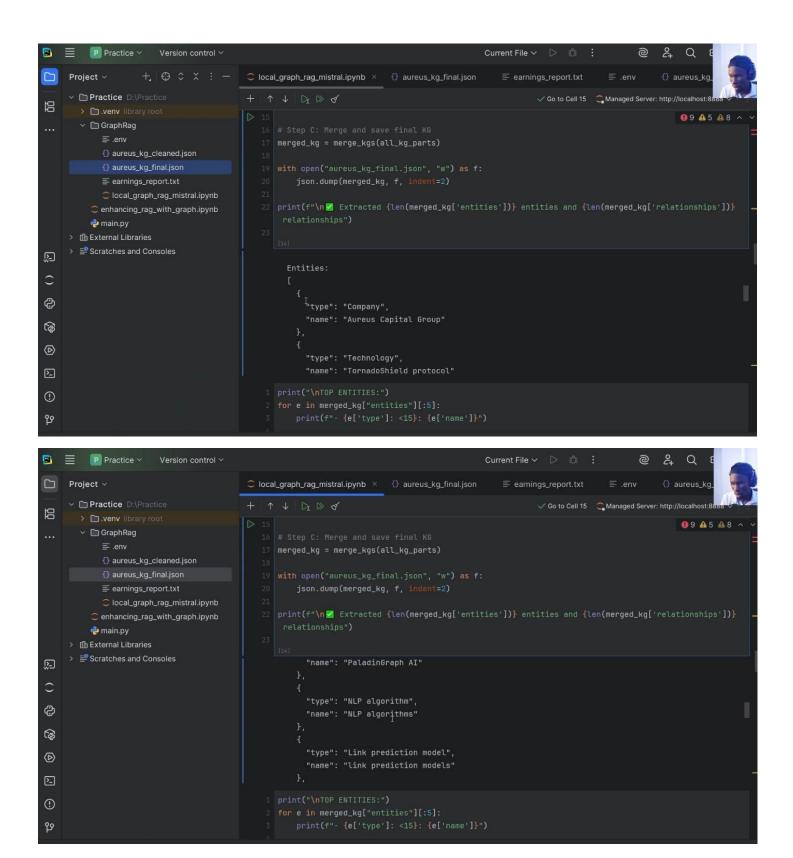
Processing chunk 1/2...

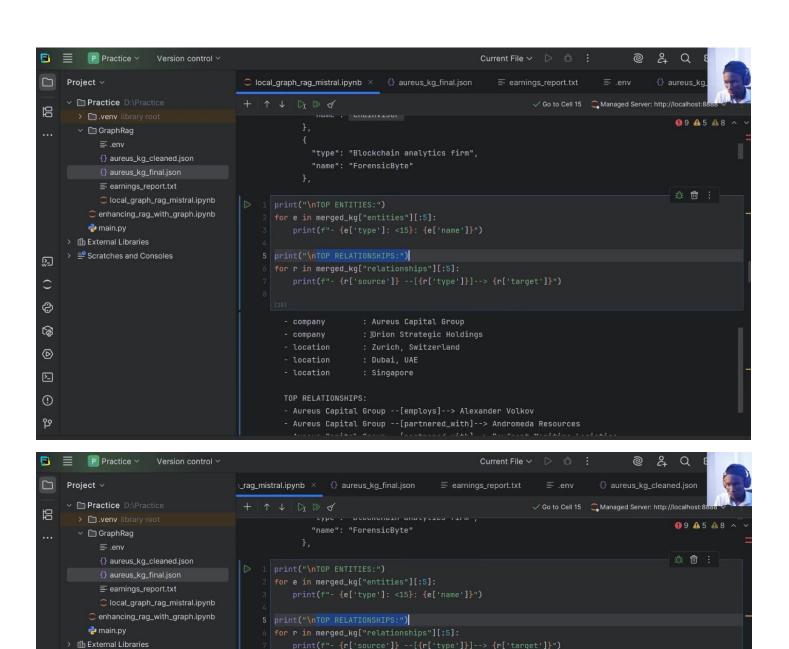
Error extracting from chunk: Extra data: line 4 column 4 (char 63)

Processing chunk 2/2...









- location : Zurich, Switzerland

Build the Knowledge Graph

- Aureus Capital Group --[partnered_with]--> Bayfront Maritime Logistics

- Orion Strategic Holdings --[partnered_with]--> Andromeda Resources

TOP RELATIONSHIPS:

> Properties 2005

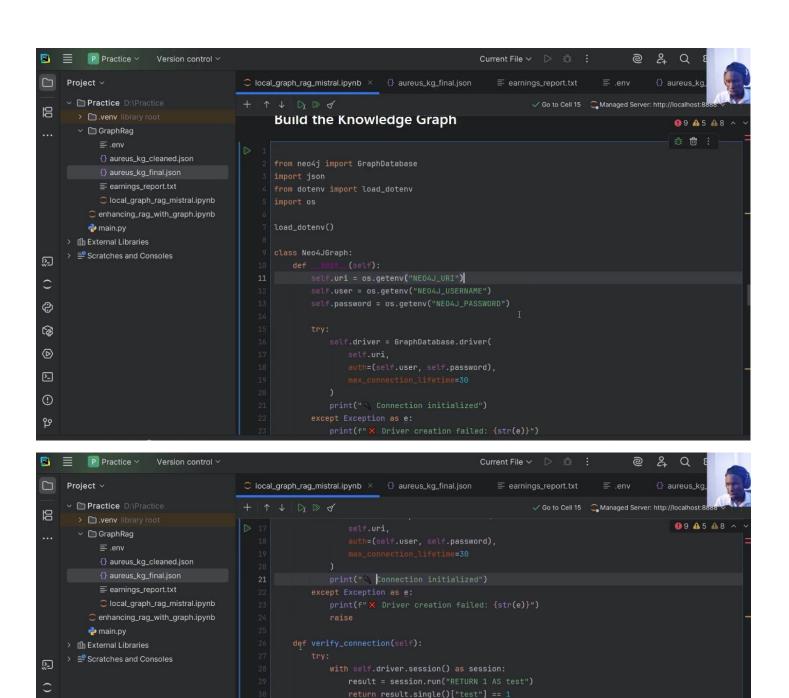
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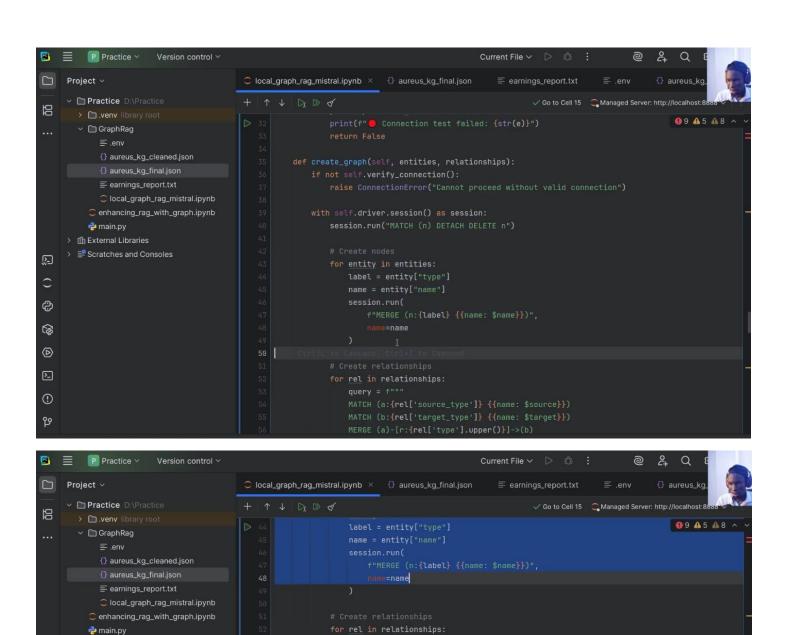
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print(f" Connection test failed: {str(e)}")
return False

6

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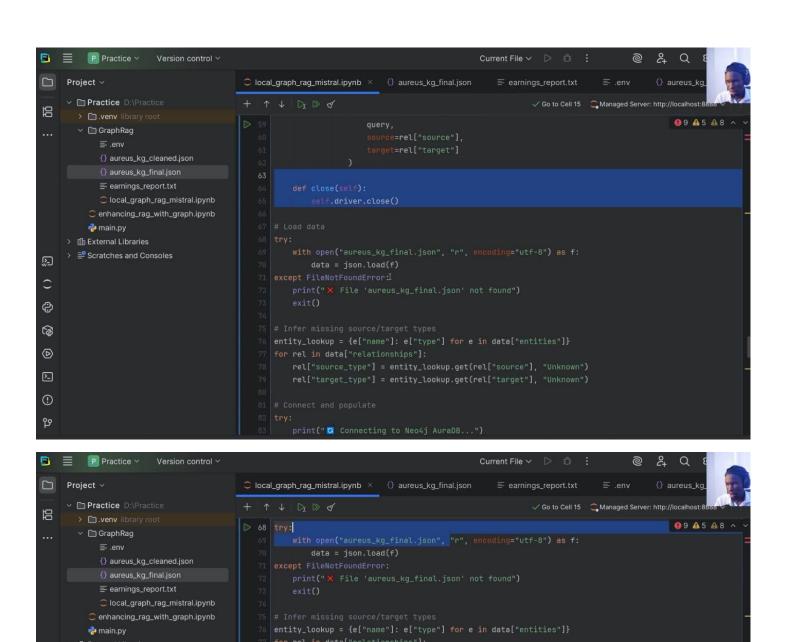


MERGE (a)-[r:{rel['type'].upper()}]->(b)

→ External Libraries
 → Scratches and Consoles

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print(" ☐ Connecting Ito Neo4j AuraDB...")

graph.create_graph(data["entities"], data["relationships"])

print(f" ✓ Graph loaded with {len(data['entities'])} entities and {len

graph = Neo4JGraph()

if graph.verify_connection():

> Properties and Consoles

(A)

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