DEMO: Flowise with GraphRAG

DATABASES

Relational Database: PostgreSQL

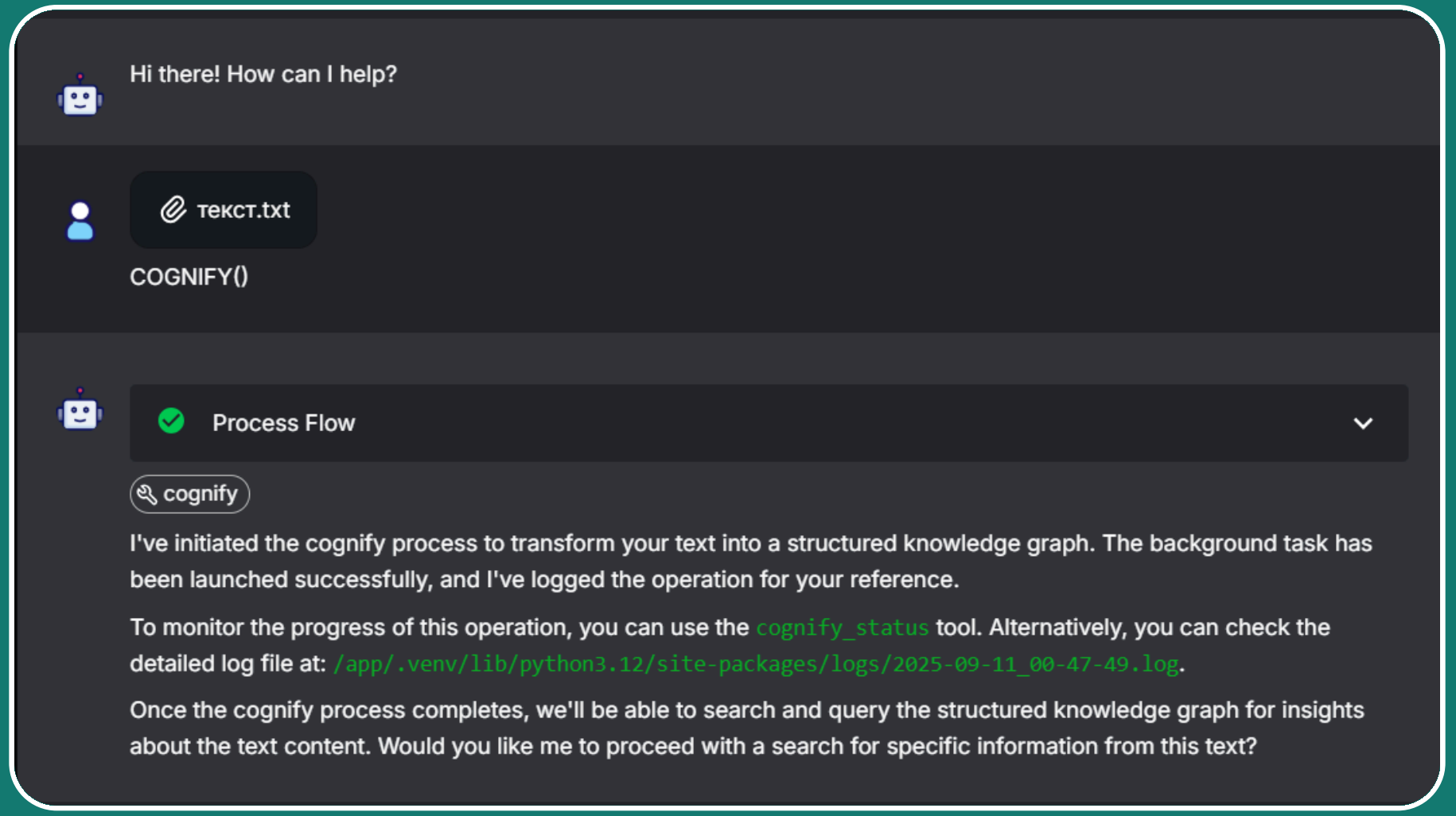
Vector Database: PGVector (PostgreSQL extension)

Graph Database: neo4j

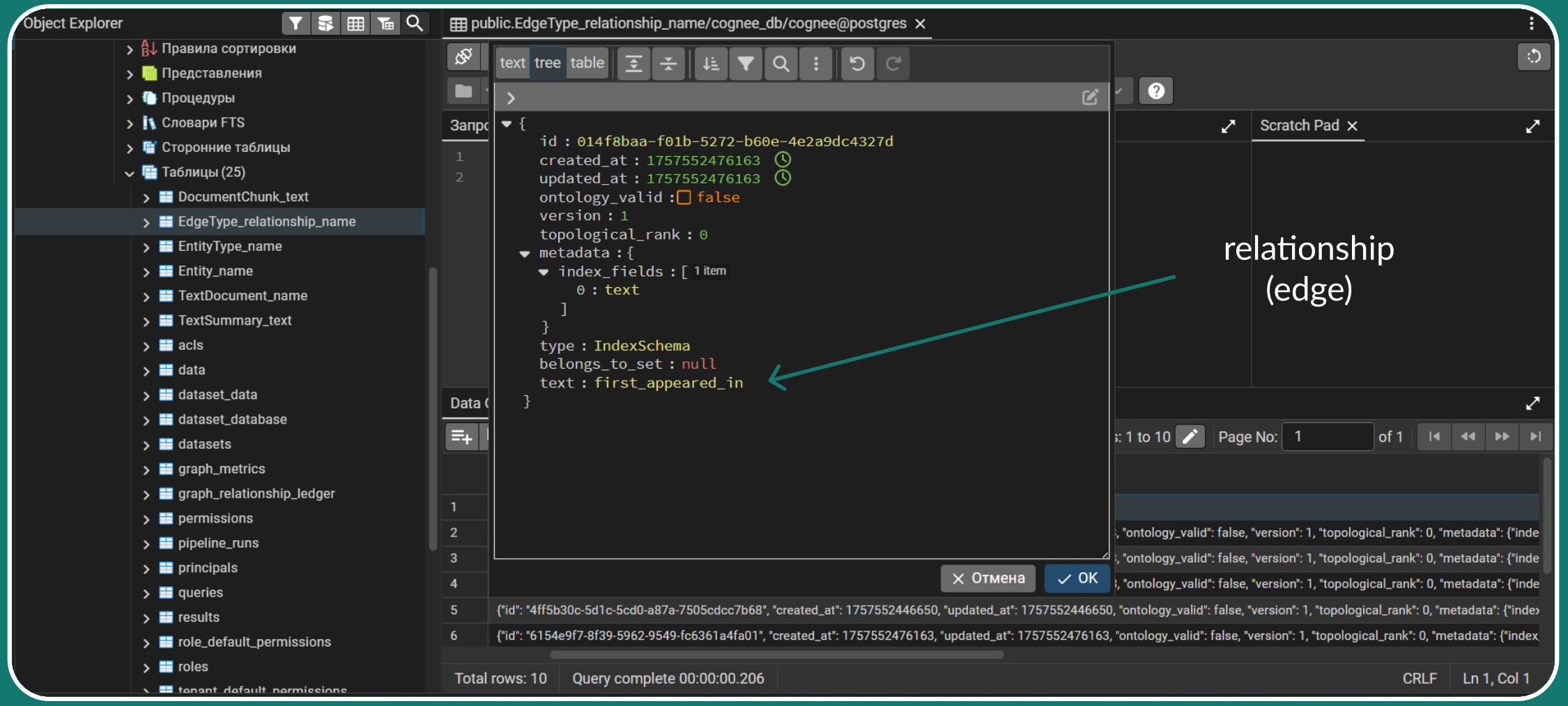
Administration and UI:

PostgreSQL, PGVector - pgAdmin
neo4j - has own web UI

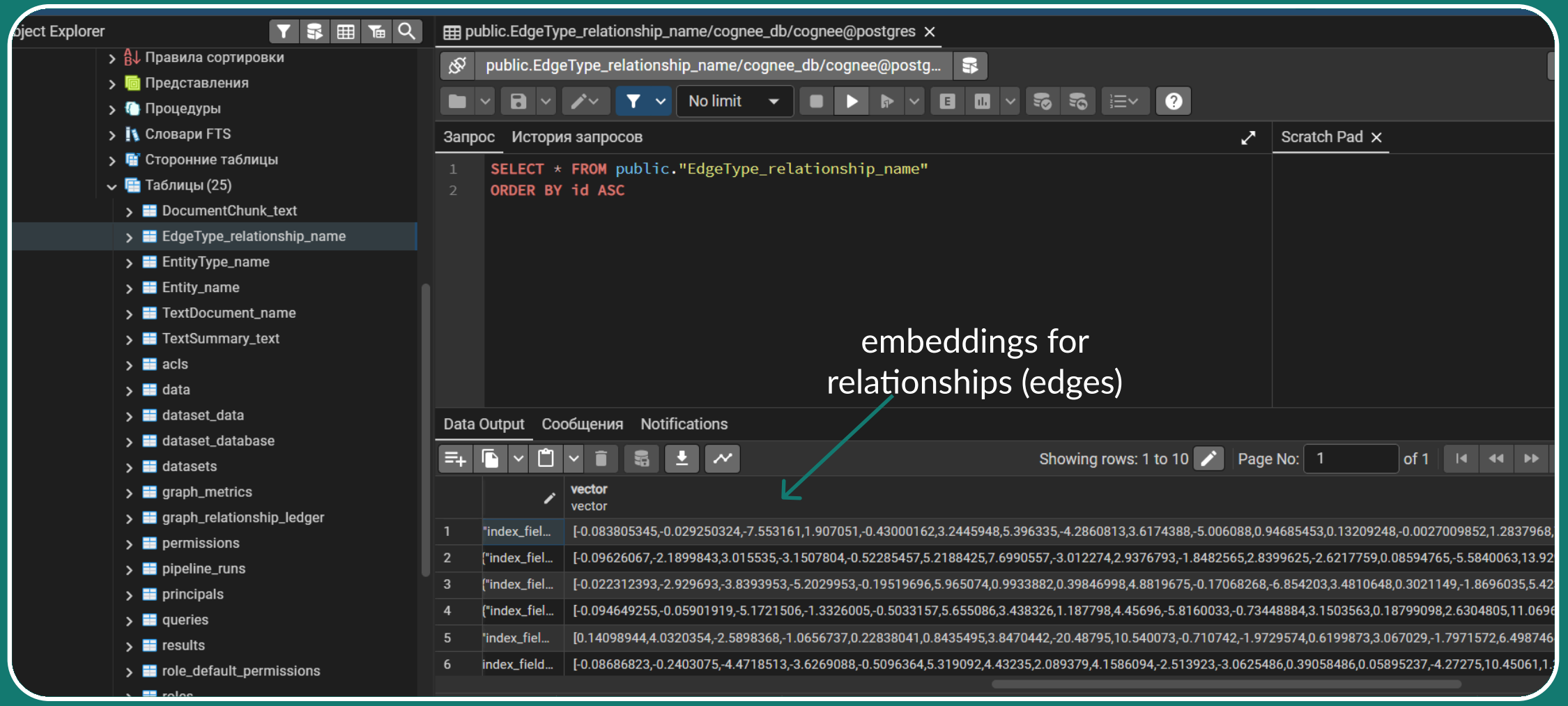
COGNIFY TOOL



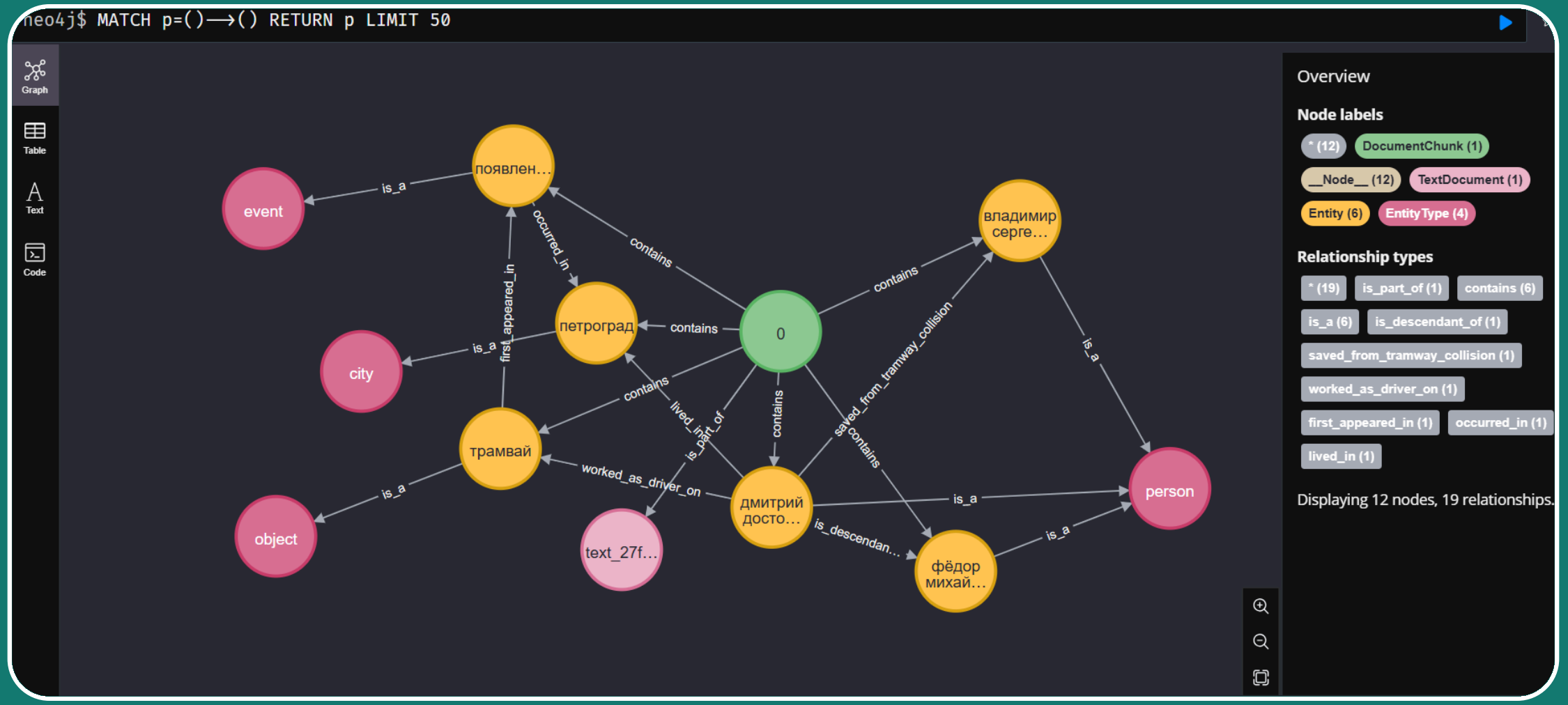
COGNIFY TOOL RELATION DB UPDATE



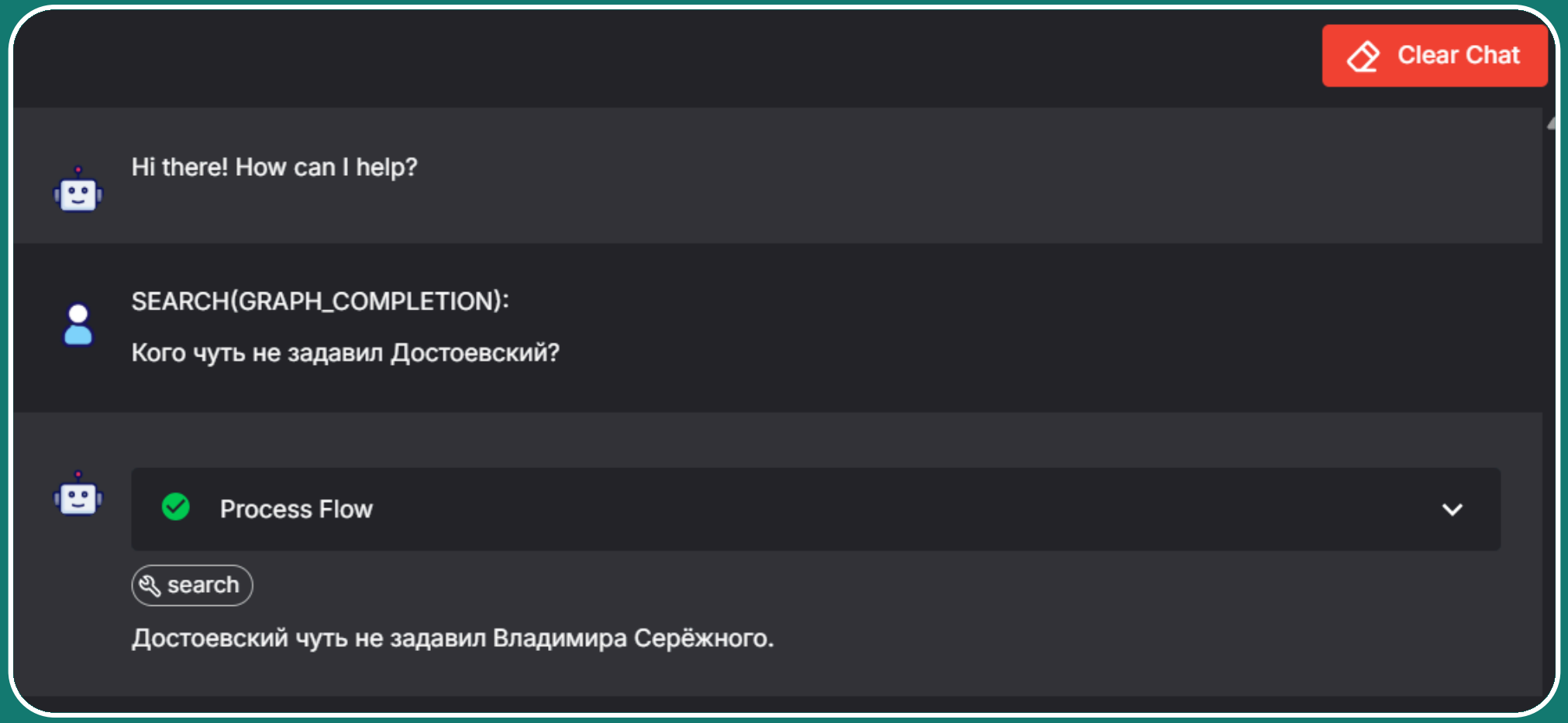
COGNIFY TOOL VECTOR DB UPDATE



COGNIFY TOOL GRAPH DB UPDATE



SEARCH(GRAPH_COMPLETION) TOOL



SEARCH TYPES

SearchType.SUMMARIES - Getting concise overviews of topics. Summarizing large amounts of information. Quick understanding of complex subjects.

SearchType.INSIGHTS - Discovering how entities are connected. Understanding relationships between concepts. Exploring the structure of your knowledge graph.

SearchType.CHUNKS - Finding specific facts. Getting direct answers to questions. Retrieving precise information.

SearchType.COMPLETION - Getting detailed explanations. Combining multiple pieces of information. Generating comprehensive answers

SearchType.GRAPH_COMPLETION - Complex queries requiring graph traversal. Questions that benefit from understanding relationships. Queries where context from connected entities matters

SearchType.CYPHER - Executing precise graph queries with full control. Leveraging Cypher features and functions. Getting raw data directly from the graph database

CURL QUERY

```
curl http://localhost:3000/api/v1/prediction/b2ea9565-02ef-45d7-ae9e-32d92b5b3140 \
    -X POST \
    -d '{"question": "COGNIFY(): A Short Story About Petya and His Friends Petya, who lives in Moscow, has been best friends with Maria since childhood."}' \
    -H "Content-Type: application/json" \
    -H "Authorization: Bearer RO6maTmLiESQonJOU-BNmPa13YzIrQS-aK37pB2_nyU"
```

Viewer | **Text**

Paste | Copy | Format | Remove white space | Clear | Load JSON data


```
{
  "text": "The data about Petya and his friend Maria has been successfully processed into the knowledge graph.
Petya's life in Moscow, or any other details related to their story. Would you like to explore specific aspects
  "question": "COGNIFY(): A Short Story About Petya and His Friends Petya, who lives in Moscow, has been best f
  "chatId": "0123e57d-3a12-478e-ad46-311d2a2536fd",
  "chatMessageId": "28294806-22a3-4d4d-a63a-dc96313075ad",
  "executionId": "75603a86-6fb8-4fb1-acbc-82b71b4c4c3e",
```

CURL QUERY

```
curl http://localhost:3000/api/v1/prediction/b2ea9565-02ef-45d7-ae9e-32d92b5b3140 \
    -X POST \
    -d '{"question": "SEARCH(GRAPH_COMPLETION): Who is the best friend of Maria?"}' \
    -H "Content-Type: application/json" \
    -H "Authorization: Bearer RO6maTmLiESQonJOU-BNmPa13YzIrQS-aK37pB2_nyU"
```

Viewer | Text

Paste | Copy | Format | Remove white space | Clear | Load JSON data


```
{
  "text": "Based on the available information in the knowledge graph, Petya is identified as the best friend of Maria.",
  "question": "SEARCH(GRAPH_COMPLETION): Who is the best friend of Maria?",
  "chatId": "173da5b2-05fc-459e-8db3-dcdf2b76dfb7",
  "chatMessageId": "cbf57f79-5f13-4c73-ae91-5d251375985e",
  "executionId": "dedd794b-5d75-47ef-9af9-aade374fc3d3",
  "agentFlowExecutedData": [
```