



You 9:45:13 AM
hi



Agent 9:45:13 AM
🕒 Completed 67.5s

Execution Steps (1)

🕒 llm:chat 67.5s

Hello! How can I assist you with your research today? We have a wealth of bioinformatics resources available through our Memgraph system if that's what you need help accessing.



You 9:46:36 AM
How many :Blast nodes are there?



Agent 9:46:36 AM
🕒 Completed 245.1s

Execution Steps (4)

🕒 Create TODO list 207.2s

▼ Hide details

```
{
  "todos": [
    {
      "meta": {
        "mode": "memgraph_direct",
        "prompt_id": "p01",
        "memgraph_task": "query",
        "expected_pattern": "MATCH (b:Blast)",
        "expected_contains": [
          "count"
        ],
        "task": "Generate and execute Cypher via graph.generate_cypher + graph.secure_query for the query above and return the results as JSON"
      },
      "status": "completed",
      "evidence": [
        ...
      ]
    }
  ]
}
```

🕒 graph.secure_query 193ms

🕒 Success • 1 rows

▼ Hide details

```
<> Cypher Query
MATCH (b:Blast) RETURN count(b) AS b_count
```

{
 "ok": true,
 "rows": [
 {
 "b_count": 39
 }
],
 "action": "execute",
 "cypher": "MATCH (b:Blast) RETURN count(b) AS b_count",
 "format": "rows",
 "params": {},
 "columns": [
 "b_count"
],
 "rowcount": 1,
 "rowindex": 0
}

🕒 memgraph.summary 0ms

🕒 Success

There are 39 :Blast nodes.

🕒 memgraph.response_builder 37.8s

```
<> Cypher Query
MATCH (b:Blast) RETURN count(b) AS b_count
```

"There are 39 :Blast nodes in the database." The MATCH clause with RETURN count(b) identified and counted all instances of type BLAST, returning their number as b_count.

2/2 tasks completed

There are 39 :Blast nodes.

"There are 39 :Blast nodes in the database." The MATCH clause with RETURN count(b) identified and counted all instances of type BLAST, returning their number as b_count.



You 9:51:56 AM
Show 10 random :Blast nodes with a couple of properties.



Agent 9:51:56 AM
🕒 Completed 180.2s

Execution Steps (3)

>Create TODO list 0ms

Hide details

```
{ "todos": [], "internal_todo_count": 1 }
```

graph.secure_query 84ms

Success • 10 rows

Cypher Query

```
MATCH (b:blast) RETURN b ORDER BY rand() LIMIT 10
```

Hide details

```
{"ok": true, "rows": [ { "b": { "_id": 408, "tags": [], "_type": null, "start": "2025-09-23T00:14:24", "dbname": "JoFq_DB", "status": "Complete", "_labels": [ "Command", "Blast" ] } } ]}
```

memgraph.response_builder 180.1s

Cypher Query

```
MATCH (b:Blast) RETURN b ORDER BY rand() LIMIT 10
```

Found 10 Blast node(s):

- Node 1: dbname=JoFq_DB, blasttype=blastp, status=Complete, blast_version=2.15, output_result=still_run
- Node 2: dbname=DksX_DB, blasttype=blastp, status=Running, blast_version=2.14, output_result=PM_run
- Node 3: dbname=YWos_DB, blasttype=blastp, status=Running, blast_version=2.15, output_result=face_run
- Node 4: dbname=Wiws_DB, blasttype=blastn, status=Complete, blast_version=2.14, output_result=nor_run
- Node 5: dbname=gYNN_DB, blasttype=blastp, status=Pending, blast_version=2.15, output_result=toward_run
- Node 6: dbname=oIhe_DB, blasttype=blastn, status=Pending, blast_version=2.15, output_result=mouth_run
- Node 7: dbname=NcpS_DB, blasttype=blastn, status=Pending, blast_version=2.15, output_result=case_run
- Node 8: dbname=NBFC_DB, blasttype=blastn, status=Complete, blast_version=2.15, output_result=results_run
- Node 9: dbname=dYzG_DB, blasttype=blastp, status=Pending, blast_version=2.14, output_result=production_run
- Node 10: dbname=lwJu_DB, blasttype=blastn, status=Running, blast_version=2.14, output_result=chance_run

Query: 'MATCH (b:Blast) RETURN b ORDER BY rand() LIMIT 10'

Found 10 Blast node(s):

- Node 1: dbname=JoFq_DB, blasttype=blastp, status=Complete, blast_version=2.15, output_result=still_run
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- Node 3: dbname=YWos_DB, blasttype=blastp, status=Running, blast_version=2.15, output_result=face_run
- Node 4: dbname=Wiws_DB, blasttype=blastn, status=Complete, blast_version=2.14, output_result=nor_run
- Node 5: dbname=gYNN_DB, blasttype=blastp, status=Pending, blast_version=2.15, output_result=toward_run
- Node 6: dbname=oIhe_DB, blasttype=blastn, status=Pending, blast_version=2.15, output_result=mouth_run
- Node 7: dbname=NcpS_DB, blasttype=blastn, status=Pending, blast_version=2.15, output_result=case_run
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- Node 10: dbname=lwJu_DB, blasttype=blastn, status=Running, blast_version=2.14, output_result=chance_run

Query: 'MATCH (b:Blast) RETURN b ORDER BY rand() LIMIT 10'

You 9:55:03 AM
What distinct relationship types exist from :Blast?

Agent 9:55:04 AM
Completed 39.9s

Execution Steps (3)

⌚ Create TODO list 4ms

⌄ Hide details

```
{
  "todos": [
    {
      "meta": {
        "mode": "simple_memgraph",
        "reason": "memgraph_hint:relationship_types"
      },
      "task": "Generate a read-only Cypher query to answer: What distinct relationship types",
      "status": "completed",
      "evidence": [
        "graph.query"
      ],
      "nested_steps": [],
      "fallback_mode": false,
      "expect_evidence": true,
      "requires_llm_planning": false
    }
  ]
}
```

⌚ graph.query 56ms

⌚ Success • 1rows

⌚ Cypher Query

```
MATCH (b:Blast)-[r]-(target) RETURN DISTINCT type(r) AS relationship_type LIMIT $limit
```

⌄ Hide details

```
{
  "ok": true,
  "rows": [
    {
      "relationship_type": "OUTPUT"
    }
  ],
  "action": "run",
  "cypher": "MATCH (b:Blast)-[r]-(target)\nRETURN DISTINCT type(r) AS relationship_type LIMIT $limit",
  "columns": [
    "relationship_type"
  ],
  "rowcount": 1,
  "read_only": true,
  "truncated": false
}
```

⌚ memgraph.response_builder 39.8s

⌚ Cypher Query

```
MATCH (b:Blast)-[r]-(target) RETURN DISTINCT type(r) AS relationship_type LIMIT $limit
```

The distinct relationship type(s) from :Blast is: 'OUTPUT'.

1/1 tasks completed

The distinct relationship type(s) from :Blast is: 'OUTPUT'.



You 9:56:10 AM

Sample 5 :Blast → :File|:BlastDb|:BlastedSeq via :OUTPUT edges.



Agent 9:56:11 AM

⌚ Completed 180.2s

Execution Steps (3)

⌚ Create TODO list 1ms

⌄ Hide details

⌚ graph.secure_query 56ms

⌚ Success • 5 rows

⌚ Cypher Query

⌚ memgraph.response_builder 180.1s

⌚ Cypher Query

```

Node 3: dbname=Imft_DB, blasttype=blastp, status=Complete, blast_version=2.10,
output_result=stock_run
- Node 4: dbname=ICRQ_DB, blasttype=blastn, status=Pending, blast_version=2.14,
output_result=music_run
- Node 5: dbname=QgPb_DB, blasttype=blastn, status=Pending, blast_version=2.15,
output_result=road_run

Query: 'MATCH (b:Blast)-[r:OUTPUT]→(target)
WHERE 'File' IN labels(target) OR 'BlastDb' IN labels(target) OR 'BlastedSeq' IN labels(target)
RETURN b, target LIMIT $limit'

```

Found 5 Blast node(s):

```

- Node 1: dbname=Imft_DB, blasttype=blastn, status=Running, blast_version=2.15,
output_result=major_run
- Node 2: dbname=Wiws_DB, blasttype=blastn, status=Complete, blast_version=2.14,
output_result=nor_run
- Node 3: dbname=FnvA_DB, blasttype=blastp, status=Complete, blast_version=2.15,
output_result=stock_run
- Node 4: dbname=ICRQ_DB, blasttype=blastn, status=Pending, blast_version=2.14,
output_result=music_run
- Node 5: dbname=QgPb_DB, blasttype=blastn, status=Pending, blast_version=2.15,
output_result=road_run

```

```

Query: 'MATCH (b:Blast)-[r:OUTPUT]→(target)
WHERE 'File' IN labels(target) OR 'BlastDb' IN labels(target) OR 'BlastedSeq' IN labels(target)
RETURN b, target LIMIT $limit'

```

You 9:59:25 AM

Count :Blast nodes grouped by presence of 'blast_version'.

Agent 9:59:25 AM

Completed 415.1s

Execution Steps (3)

- Create TODO list 345.8s
 - Show details
- graph.secure_query 33ms
 - Success • 1 rows
 - < Cypher Query


```
MATCH (b:Blast) RETURN b.blast_version IS NOT NULL AS has_blast_version, count(b) AS count
ORDER BY has_blast_version DESC
```
 - Show details
- memgraph.response_builder 69.2s
 - < Cypher Query


```
MATCH (b:Blast) RETURN b.blast_version IS NOT NULL AS has_blast_version, count(b) AS count
ORDER BY has_blast_version DESC
```
 - In total, there are 39 Blast nodes in the database. Among them, 39 also contain a 'blast_version' attribute and thus form one group with this count of nodes having that specific version information present. There is no separate count for those without it as they do not exist within our dataset based on current criteria.

1/1 tasks completed

In total, there are 39 Blast nodes in the database. Among them, 39 also contain a 'blast_version' attribute and thus form one group with this count of nodes having that specific version information present. There is no separate count for those without it as they do not exist within our dataset based on current criteria.

You 10:07:16 AM

Show example values for 'blasttype' (max 10).

Agent 10:07:17 AM

Completed 415.7s

Execution Steps (4)

- Create TODO list 365.5s
 - Show details
- graph.secure_query 34ms
 - Success • 2 rows
 - < Cypher Query


```
MATCH (b:Blast) WHERE b.blasttype IS NOT NULL RETURN DISTINCT b.blasttype AS blasttype
LIMIT 10
```
 - Show details
- memgraph.summary 0ms
 - Success
 - Found 2 distinct values for 'blasttype'.

memgraph.response_builder 50.1s

```
< Cypher Query
MATCH (b:Blast) WHERE b.blasttype IS NOT NULL RETURN DISTINCT b.blasttype AS blasttype
LIMIT 10
```

The example blasttypes found were 'blastn', and 'blastp'. There are a total of 2.

2/2 tasks completed

Found 2 distinct values for 'blasttype'.

The example blasttypes found were 'blastn', and 'blastp'. There are a total of 2.

You 10:26:29 AM

Delete :Blast nodes with no :OUTPUT edges.

Agent 10:26:31 AM

Completed 107.2s

Execution Steps (2)

- admin-denial-llm nulls
LLM response was empty
- admin-denial nulls
****Admin Operation Denied****
I'm sorry, but deleting nodes in your network typically involves administrative actions that are restricted to users with elevated privileges for security reasons. This kind of operation ensures data integrity and prevents unauthorized changes within the system. If you need assistance or have concerns about node management, please reach out so we can address them appropriately while maintaining a secure environment.
This operation requires **admin privileges**. Please contact your administrator or use an admin account.

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You 10:30:33 AM

Rename property 'blasttype' to 'blast_type' for every nodes.

Agent 10:30:33 AM

Completed 81.0s

Execution Steps (2)

- admin-denial-llm nulls
LLM response was empty
- admin-denial nulls
****Admin Operation Denied****
I'm sorry, but renaming properties across all nodes in your system typically requires administrative privileges due to potential impacts on data integrity and permissions settings. This operation involves altering metadata for multiple records which is why admin rights are necessary. Please request this task from an administrator or provide the appropriate credentials if you have them.
This operation requires **admin privileges**. Please contact your administrator or use an admin account.

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This operation requires **admin privileges**. Please contact your administrator or use an admin account.

phi3-mini

Type your message... (Enter to send)

