Instituto Tecnológico y de Estudios Superiores de Occidente

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Dgraph Lab 3 – Pydgraph

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Subject: Non-Relational Databases

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Screenshots

```
Enter your choice: 2
Enter text search: Great!
[
  {
    "uid": "0x111ce",
    "text": "Great video!"
  }
]
```

Query 1: Text search

```
Enter your choice: 3
Enter minimum video duration: 90
[
  {
    "uid": "0x111d4",
    "title": "Intro to Dgraph",
    "duration": 300
  },
  {
    "uid": "0x111d5",
    "title": "Graph DB Tutorial",
    "duration": 600
  }
]
```

Query 2: Video duration

```
Enter your choice: 4
[
  {
    "uid": "0x111d1",
    "username": "Alice",
    "posts": [
      {
        "uid": "0x111d4",
        "title": "Intro to Dgraph",
        "duration": 300
      }
    ]
  },
  {
    "uid": "0x111d2",
    "username": "Bob",
    "posts": [
      {
        "uid": "0x111d5",
        "title": "Graph DB Tutorial",
        "duration": 600
      }
    ]
  },
  {
    "uid": "0x111d3",
    "username": "Carol"
  }
]
```


Query 3: Users with posts.

```
Enter your choice: 5
Enter video title: Intro to Dgraph
[
  {
    "uid": "0x111d4",
    "title": "Intro to Dgraph",
    "~posts": [
      {
        "uid": "0x111d1",
        "username": "Alice"
      }
    ]
  }
]
```

Query 4: Users with posts (reverse).

```
Enter your choice: 6
Enter 'desc' or 'asc', depending on the result you want: asc
[
  {
    "uid": "0x111d4",
    "title": "Intro to Dgraph",
    "duration": 300
  },
  {
    "uid": "0x111d5",
    "title": "Graph DB Tutorial",
    "duration": 600
  }
]
```

Query 5: Videos sorted.

```
Enter your choice: 7
Video count: 2
```

Query 6: Video count.

```
Enter your choice: 8
Enter first result: 1
Enter offset: 1
[
  {
    "uid": "0x111d4",
    "title": "Intro to Dgraph"
  }
]
```

Query 7: Video pagination.

```
Enter your choice: 9
Enter comment text: Great
Deleting 1 comment(s) matching: 'Great'
```

Delete comments by term.

```
Enter your choice: 10
All data and schema dropped.
```

Drop all.

Conclusion

Out of all the laboratories, this was the one I considered the hardest. In previous activities, I struggled with loading CSV information into Dgraph, and after a while, I was able to figure out how to do it. This laboratory was not an exception; in fact, I followed my deliverables regarding PyDGraph and still got many errors. Thus, at the end, I decided to pass my code to Copilot and ask where the reading of files failed.

After correcting the issues, I learned the following: the “os” library is useful to interact with the base operating system and can become handy when dealing with paths and files found in other directories. Also, “traceback” is a report generated when an exception occurs in execution, providing detailed information on what led to the error.

Last but not least, I would like to say that I do not feel proud (dare I say fulfilled?) about my performance in this activity, as I had to yield to AI to solve some logical issues. I was hoping to deliver a piece of work entirely coded by myself, taking as a foundation my last homework; nevertheless, after a while, I could not find the issue, and so I opted

for that solution. Hence, I take it as a lesson that there are still so many things left to learn about PyDgraph to make proper use of it. Moving forward, I aim to improve my debugging skills to reduce my reliance on said type of tools.