Group Project

(Mention your contribution in the project during the presentation and in the report)

Objective:

Explore Graph Database "Neo4j", and build a relationship/ visualization by creating vertices, edges, and attributes.

Academic Integrity

- Do not copy texts verbatim from online or printed materials
- Do not copy texts from other's work
- Do not submit other's work
- If you obtain help from Tutor(s), please acknowledge
- Provide citation for texts, images, tables, data etc.
- The Dalhousie Academic Integrity policy applies to all material submitted as part of this course. Please understand the policy, which is available at: https://www.dal.ca/dept/university_secretariat/academic-integrity.html

Presentation Date:

Monday – Oct 28, 2019 (2:35 pm – 3:55 pm)
Tuesday – Oct 29, 2019 (10:05 am – 11:25 am)
Tuesday – Oct 29, 2019 (2:35 pm – 3:55 pm)

Order of presentation is available on a separate file

[6 minutes/ group (Only Project Demo. No power point presentation)]

Report Submission Due:

A single PDF file must be submitted by Tuesday – Oct 29, 2019 at 11:59 pm (midnight)

Your Task:

A. Write a one-page report on a graph database - Neo4j. You should include its significance, and limitations in your report. [Font: Times, 12 pt., Single spacing]. You must include proper citation (in IEEE/ACM Format only. Use reliable information source.)

B. Visit this web link: https://oceana.ca/en/marine-life/marine-life-canada

and extract the names of the marine life, name, habitat, if endangered etc.

Download, and install graph database - "Neo4j", and perform the following:

1. Consider feeding habits of a marine animal as a node
2. Consider each marine animal as a node
3. For each marine animal add name, conservation status, habitat as properties
4. All marine animals must be connected using "habitat/ecosystem" edge (relationship: neighbor).
5. All animals are also connected to feeding habits with an edge (relationship: Identical Feeding habits)
6. Once the graph is constructed using Neo4j, using graph visualization display the animals that are endangered.