

Database Systems

CMPT 308

- Graph Database Project - 150 points

Goal	To learn about graph databases. We've been spending our semester mostly on relational database systems. That's fine because they're awesome. But there are other kinds of data management systems. One of my favorites is graph databases.
Instructions	Research a pure graph database like Neo4J or InfiniteGraph and compare it to other non-relational data storage systems. Then transform our beloved CAP relational database into a graph database and show its contents. You don't have to actually implement CAP in Neo4J or InfiniteGraph, just create a diagram that illustrates it in its entirety.
Deliverables	<p>Create a slide presentation as if you were going to teach this to our class. (Don't worry, you're not going to. But put yourself in that mindset as you develop your slides. You never know truly something at a deep level until you teach it to someone else.)</p> <ul style="list-style-type: none">• Slide 0 - Title, your name, the date, a cool graphic or logo or image• Slide 1 - What is a Graph Database? Show a small example.• Slide 2 - How is a graph database different from a Relational database?• Slide 3 - How is a graph database different from a document store?• Slide 4 - How is a graph database different from a Key-Value store?• Slide 5 - How is a graph database different from a semantic store?• Slide 6 - How is a graph database different from a network database?• Slide 7 - Examples of the transformation from relational CAP into graph CAP• Slide 8 - Our entire CAP database in graph form• Slide 9 - References
Resources	<ul style="list-style-type: none">• The references on our web site about graph databases• Your own research
Submitting	Submit your work as a PDF. (Only PDF files will be accepted.) Push it to your GitHub repository before the date at which it is due (see syllabus). Remember, neatness counts. So does accuracy, spelling, grammar, correctness, and essentially everything else. It only has to be perfect. Make it so.