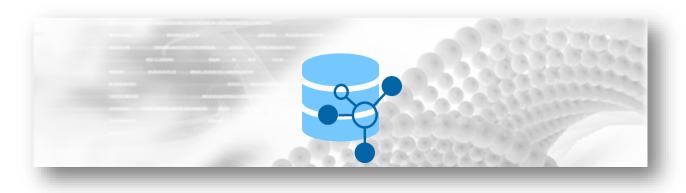
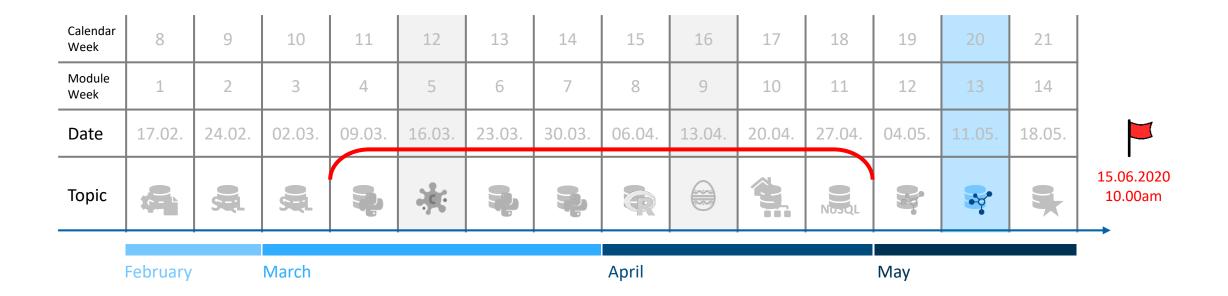
ACLS

Graph-based



SS 2020 – Week 13 May 11

Schedule





Introduction & RDB



Data Warehouse



Structured Query Language

Not only SQL



Database & Python



Graph Database



Database & R



Special





• Review		5′
RDF & SPARQL		85′
Knowledge Graph		45′
• Exercises	•	90′





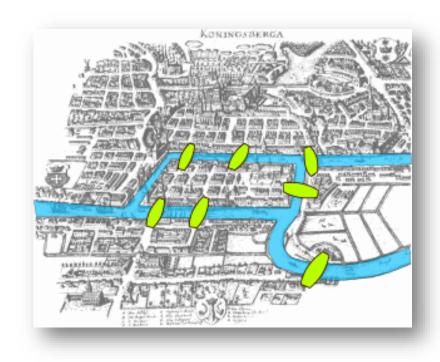


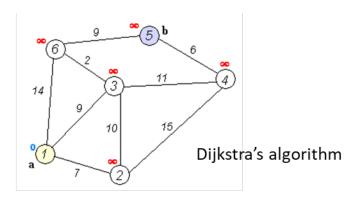
•	Review		5'
•	RDF & SPARQL		85′
•	Knowledge Graph		45′
	Exercises	3	90'

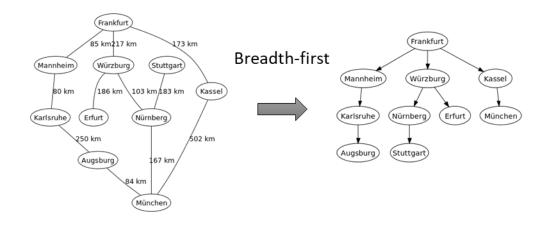


Review (1/4)

Graphs



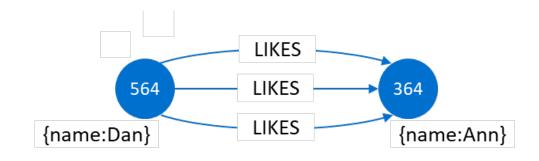




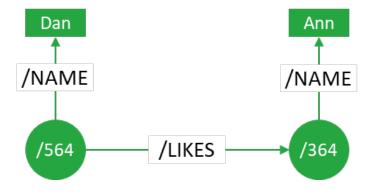
Review (2/4)

LPG vs RDF

Labeled Properties Graph

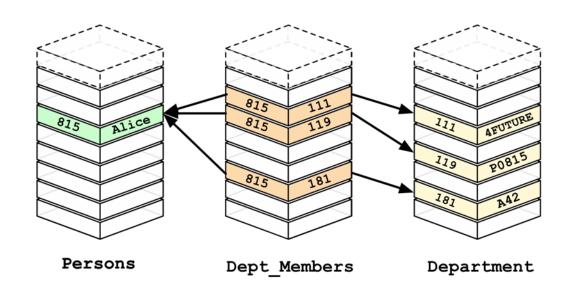


Resource Description Framework



Review (3/4)

Relational → Labeled Properties Graph



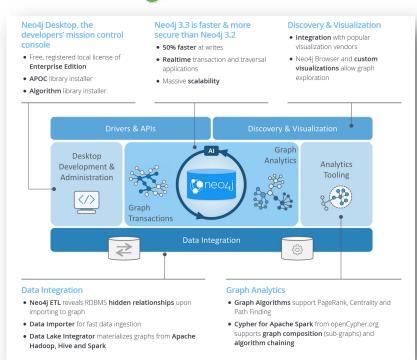
Functionality: Relational Algebra

Functionality: Graph Theory

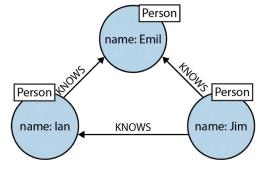
Review (4/4)

Neo4j & CYPHER





- Nodes are «drawn» in parentheses:
- Edges are «drawn» using pairs of dashes with greater-than or less-than signs and square brackets in between:

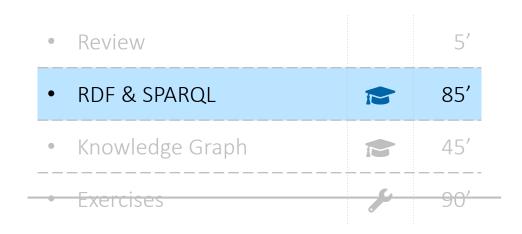


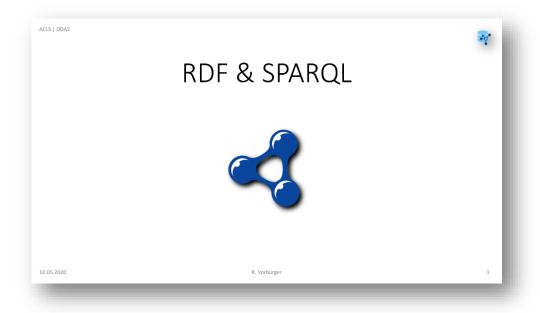
```
()-[]->()

(:Person)-[:KNOWS]->(:Person)

(:Person {name:'Jim'})-[:KNOWS]->(:Person {name:'Ian'})
```

Content





Content

