**DSE 250 10.27.2017**

Data integration -> leave dbs at sources, do not materialize, create scripts for virtual views

**Neo4j -> graph database**

Edges are directed & typed

Cypher = Query language

Examples

Get entire graph:

MATCH (n) RETURN n

Get actors who have acted in The Matrix

MATCH (n)-[ACTED\_IN]->(Movie {title: 'The Matrix'}) Return n.name

Get pairs of actors who have acted together, Remove duplicated -> get distinct

MATCH (n1:Person)-[ACTED\_IN]->(m: Movie)<-[]->(n2:Person) Return DISTINCT n1.name, n2.name

Transverse the grid ie. but not perfect

MATCH (n1:Person)-[]->(m: Movie)<-[]->(n2:Person) CREATE (n1)-(KNOWS)-(n2)

Connections to Kevin Bacon by 1+ nodes

O(n)

-be mindful of the number of means of searching across nodes