Graph Database

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Definition (Graph)

A graph $G(V, E)$ has a set V of vertexes (nodes) and a set E of edges. Each edge $e \in E$ connects two nodes in V.

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- Internet graph.
- Co
- Dist https://eduassistpro.github.i
- etc.

Graph is a general tool for modelling the interconnecti
the real world

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A graph ca

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See `http://law.di.unimi.it/dataset`

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- Path Query.

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- Path Query.
- Pattern Query.

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- Path Query.
- Pattern Query.
- Analytical Query.

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- Path Query.
- Pat
- Ana
- …

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Many graph queries can hardly be expressed in SQL and e
RDBMS.

- Self-describing data.

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Movie (IMDB):

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Graph data: semi-structured data

- Self-describing data.
- Document/text attached on nodes/edges.

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Web graph: webpages and their hyperlinks

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Graph data: semi-structured data

- Self-describing data.
- Document/text attached on nodes/edges.
- Queries can be more complicated.

Who worked in both the team of "Casablanca" and "Play it again, Sam"

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Motivation:

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- Graph is a general tool for modelling the interconnectivity of the objects in the real world.
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Motivation:

- Graph is a general tool for modelling the interconnectivity of the objects in the real world.

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Aim: to understand and to use

- General graph database Neo4J.

- RDF graphs with their query language SPARQL.