

MindmapsDB: A Distributed Knowledge Graph Platform

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Movies

```
# get movies directed by the director of the movie Avatar

graql>>
match
  $x isa movie;
  $y isa person;
  $z isa movie value "Avatar";
  ($x, $y) isa directorship;
  ($y, $z) isa directorship;
select $x;

results>>
[
  {"isa": "movie", "value": "Titanic"},
  {"isa": "movie", "value": "Aliens"},
  {"isa": "movie", "value": "Terminator 2: Judgement Day"}
]
```

The diagram illustrates a knowledge graph with the following structure:

- Concept Types (blue circles):** `directorship`, `relation-type`, and `concept-type`.
- Instance Types (red circles):** `person` and `movie`.
- Instance Nodes (green circles):** `$x: Titanic`, `$y: James Cameron`, and `$z: Avatar`.
- Relationships (edges):**
 - `directorship` *isa* `relation-type`
 - `relation-type` *isa* `concept-type`
 - `person` *isa* `concept-type`
 - `movie` *isa* `concept-type`
 - `person` *isa* `directorship`
 - `movie` *isa* `directorship`
 - `directorship` *director* `person`
 - `directorship` *director* `movie`
 - `person` *movie-directed* `Titanic`
 - `person` *movie-directed* `James Cameron`
 - `movie` *movie-directed* `Avatar`