

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:

- Nodes:**
 - \$x: Titanic** (green circle)
 - \$y: James Cameron** (green circle)
 - \$z: Avatar** (green circle)
 - directorship** (white circle)
 - relation-type** (blue circle)
 - person** (red circle)
 - movie** (red circle)
 - concept-type** (blue circle)
- Edges (Relationships):**
 - isa** (white arrow):
 - directorship $\xrightarrow{\text{isa}}$ relation-type
 - relation-type $\xrightarrow{\text{isa}}$ directorship
 - person $\xrightarrow{\text{isa}}$ concept-type
 - movie $\xrightarrow{\text{isa}}$ concept-type
 - person $\xrightarrow{\text{isa}}$ directorship
 - movie $\xrightarrow{\text{isa}}$ directorship
 - directorship** (green arrow):
 - directorship $\xrightarrow{\text{directorship}}$ \$x: Titanic
 - directorship $\xrightarrow{\text{directorship}}$ \$y: James Cameron
 - movie-directed** (green arrow):
 - movie-directed $\xrightarrow{\text{movie-directed}}$ \$x: Titanic
 - movie-directed $\xrightarrow{\text{movie-directed}}$ \$z: Avatar