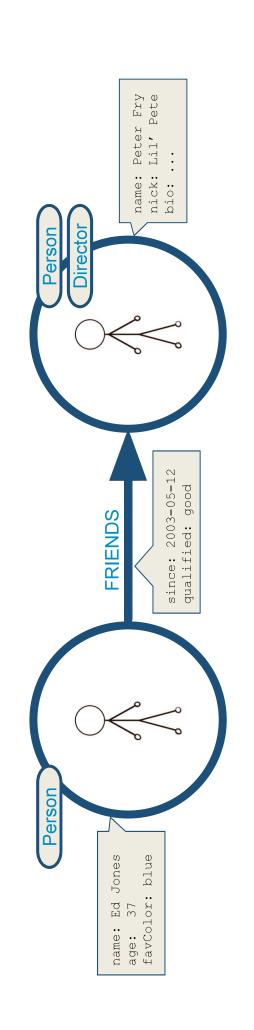


Property Graphs





Cypher

Pattern Matching:

MATCH (me:Person) - [:FRIEND] -> (friend)

WHERE me.name = "Frank Black" friend.age > me.age Filtering:

Projection:

RETURN friend.name, friend.title

Data creation and manipulation:

SET you.name = "Aaron Fletcher" CREATE (you:Person)

CREATE (you)-[:FRIEND]->(me)

Sequential Query Composition:

MATCH (me:Person{name:\$name})-[:FRIEND]-(friend) WITH me, count(friend) AS friends

MATCH (me) - [:ENEMY] - (enemy)

RETURN friends, count(enemy) AS enemies

Remove Delete Merge Create Set InQueryCall Unwind Match Merge Create



Patterns

```
^ ______
                                                                                                                                                                      MapLiteral
                                                                                                                                                                                               -▶ Parameter
                                                                                                                                                                                                                                                                                                                     RelationshipDetail
                                                 RelationshipPattern
                                                                                                 → PatternElement
 NodePattern
                                                                                                                                                                                                                                                                                                                                                                                                                                     RelationshipDetail
                                                                                                                                                                                                                                                                RelationshipDetail
                                                                                                                                                                       (:)→ | label
                                                                                                                                                                                                                                                                                                                                                                            RelationshipDetail
                                                                                                                                                                                                                                          <u>↑</u>
•
                                                                                                                                                                      variable |-▶
                                                                                                                                                                                                                                                       MAICH p = (a) - [:ONE] - () - [:TWO] - () - [:THREE] - ()
MATCH (), (node), (node:Node), (:Node),
(node {type:"NODE"})
                                                                                                                                                                                           (a) <- [edge] - (b) , (a) - [edge] - (b)
                                                                                                                                                                                                                                                                                                                    (me) - [:FRIEND*] - (foaf)
                                                                                                                                                                                                                                                                                                                                                                                MATCH (me) - [:FRIEND*1..3] - (foaf)
                                                                                                                                                   ()-[edge {score:5}]->(),
                                                                                 ()-->(), ()-[edge]->(),
                                                                                                      () - [edge: RELATES] -> (),
                                                                                                                           () - [:RELATES] -> (),
                                                                                                                                                                      (a) - [edge] -> (b)
                                                                                                                                                                                                                                                                                                                       II
                                                                                                                                                                                                                                                                                                                    MATCH p
                                                                                   MATCH
```