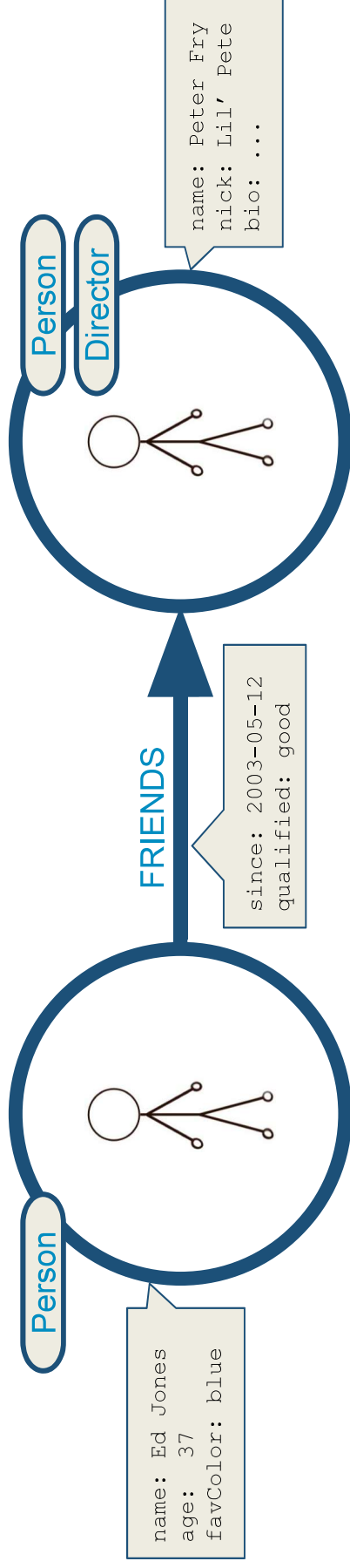


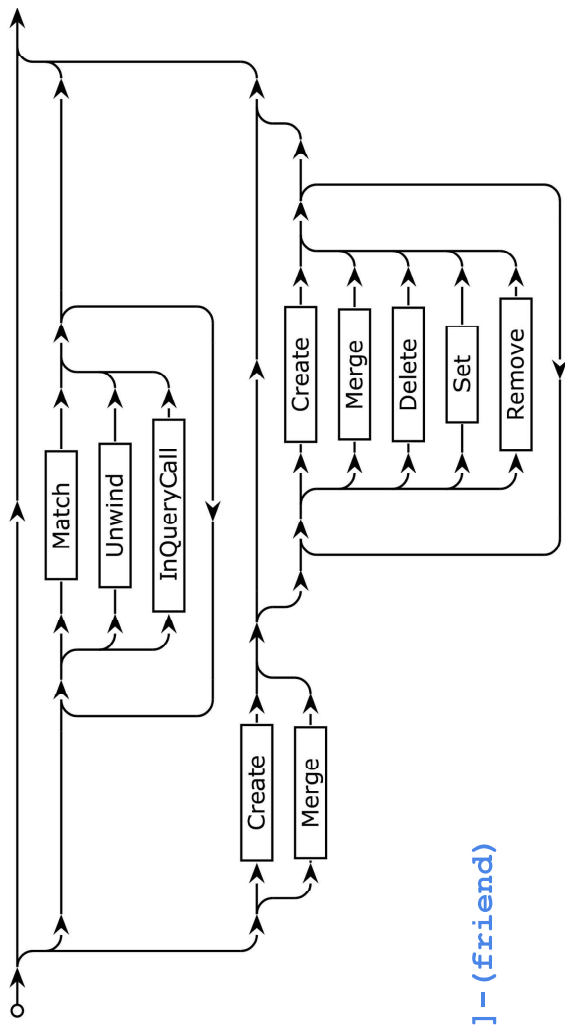
Property Graphs



Cypher



- Pattern Matching:
MATCH (me:Person) -[:FRIEND] -> (friend)
- Filtering:
WHERE me.name = "Frank Black"
AND friend.age > me.age
- Projection:
RETURN friend.name, friend.title
- Data creation and manipulation:
CREATE (you:Person)
SET you.name = "Aaron Fletcher"
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



Patterns



```
MATCH () , (node) , (node:Node) , (:Node) ,
      (node {type:"NODE"})
```

```
MATCH ()-->() , ()-[edge]->() ,
      ()-[edge:RELATES]->() ,
      ()-[:RELATES]->() ,
      ()-[edge {score:5}]->() ,
      (a)-[edge]->(b)
      (a)<-[edge]-(b) , (a)-[edge]-(b)
```

```
MATCH p = (a)-[:ONE]-( )-[:TWO]-( )-[:THREE]-( )
```

```
MATCH p = (me)-[:FRIEND*]-(foaf)
```

```
MATCH (me)-[:FRIEND*1..3]-(foaf)
```

