

Создаем граф

```
CREATE (n:Person {name: 'Ivan', age: 18, from 'Moscow'}) RETURN (n)
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CREATE (n:Person {name: 'Petr', age: 19, surname: 'Petrov'}) RETURN (n)

CREATE (n:Person {name: 'Maria', age: 20, from 'Vologda', subj: ['rus','fil','math']})

RETURN (n)



Смотрим, что добавили

MATCH (n) RETURN (n)

MATCH (n) RETURN count(n)



Ограничения вывода

MATCH (n) RETURN (n) LIMIT 2



Условия

MATCH (n:Person) WHERE n.name = 'Ivan' RETURN (n)



Добавим свойства

MATCH (n: University {name: 'MGUPI'}) SET n.adress = 'Moscow'



Удалим свойства

MATCH (n: University {name: 'MGUPI'}) REMOVE n.adress



Добавим связей

```
MATCH (a:Person {name: 'Ivan'}), (b:University {name: 'MGUPI'}) MERGE (a)-
```

[r:UCHI]->(b)

MATCH (a:Person {name: 'Maria'}), (b:Person {name: 'Ivan'}) MERGE (a)-[r:UCHI

{year: 2020}]->(b)



Поиск

MATCH (ee:Person)-[:FRIENDS]-(friends) WHERE ee.name = 'Ivan' RETURN ee, friends



Индексы

CREATE INDEX FOR (n:Person) ON (n.name)



Ограничение уникальности

CREATE CONSTRAINT ON (u:University) ASSERT u.name IS UNIQUE



Удалить связи

MATCH (a:Person {name: 'Maria'})-[r]-(b) DELETE r



Удалить узел

MATCH (n: Person {name: 'Maria'}) DELETE n



Удалить все узлы и связи

MATCH(n) OPTIONAL MATCH (n)-[r]-() DELETE n, r