

# SPARQL CONSTRUCT, ASK a DESCRIBE



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Zuzana Nevěřilová | Centrum zpracování přirozeného jazyka

# SELECT, ASK, DESCRIBE, CONSTRUCT

```
ASK
WHERE {
    ?book a dbo:Book .
    ?book dbo:author ?author .
    ?book dbp:releaseDate ?date .
    ?author rdfs:label ?author_name .
    ?book rdfs:label ?title .
    ?book dbo:numberOfPages ?pages.

    FILTER(?pages > 500)
}
LIMIT 100
```

Existuje aspoň jeden výsledek?

- true
- false

# SELECT, ASK, DESCRIBE, CONSTRUCT

```
DESCRIBE ?author ?book
```

```
WHERE {
```

```
  ?book a dbo:Book .
```

```
  ?book dbo:author ?author .
```

```
  ?book dbp:releaseDate ?date .
```

```
  ?author rdfs:label ?author_name .
```

```
  ?book rdfs:label ?title .
```

```
  ?book dbo:numberOfPages ?pages.
```

```
  FILTER(?pages > 500)
```

```
}
```

```
LIMIT 100
```

Informace o každé instanci  
(jako kdybychom rozklikli stránku)  
Formát HTML microdata

# SELECT, ASK, DESCRIBE, CONSTRUCT

```
CONSTRUCT {?author <http://example.org/hasWritten> ?book}
```

```
WHERE {
```

```
  ?book a dbo:Book .
```

```
  ?book dbo:author ?author .
```

```
  ?book dbp:releaseDate ?date .
```

```
  ?author rdfs:label ?author_name .
```

```
  ?book rdfs:label ?title .
```

```
  ?book dbo:numberOfPages ?pages.
```

```
  FILTER(?pages > 500)
```

```
}
```

```
LIMIT 100
```

Vytvoří se nový graf, kde mohou (ale nemusí) být stejné hrany jako v původním grafu.

# SELECT, ASK, DESCRIBE, CONSTRUCT - výstupy

## SELECT - projekce (tabulka)

- HTML
- XML
- JSON
- CSV

## ASK

- ano/ne v XML
- ano/ne v JSON

## DESCRIBE

- HTML microdata
- RDF/XML, Turtle

## CONSTRUCT

- RDF/XML, Turtle