

## Sample Query Graph2SAPRQL

1. Prime 10 triple che appartengono alla classe Film e che sono interpretate da John Wayne

### SPARQL

```
SELECT ?f WHERE {  
  ?f rdf:type dbo:Film .  
  ?f dbo:starring dbr:John_Wayne .  
} LIMIT 10
```

### GraphQL

```
query {  
  searchEntity(  
    className: "http://dbpedia.org/ontology/Film"  
    filters: [  
      {  
        property: "http://dbpedia.org/ontology/starring"  
        value: "http://dbpedia.org/resource/John_Wayne"  
      }  
    ]  
    limit: 10  
  )  
}
```

2. Primi 10 film in lingua italiana (descritti in lingua inglese)

### SPARQL

```
SELECT ?f WHERE {  
  ?f a dbo:Film .  
  ?f dbp:language "Italian"@en .  
} LIMIT 10
```

## GraphQL

```
query {
  searchEntity(
    className: "http://dbpedia.org/ontology/Film"
    filters: [
      {
        property: "http://dbpedia.org/property/language"
        value: "Italian@en"
        operator: "="
      }
    ]
    limit: 10
  )
}
```

### 3. Primi 10 Film interpretati da un attore nato dopo il 1 Gennaio 1980

## SPARQL

```
SELECT ?film WHERE {
  ?film a dbo:Film;
        dbp:starring ?actor .
  ?actor dbp:birthDate ?birthDate .
  FILTER(?birthDate>=xsd:date("1980-01-01"))
} LIMIT 10
```

## GraphQL

```
query {
  searchEntity(
    className: "http://dbpedia.org/ontology/Film"
    filters: [
      {
        path: [
          { property: "http://dbpedia.org/property/starring" },
          { property: "http://dbpedia.org/property/birthDate",
            value: "1980-01-01", operator: ">=" }
        ]
      }
    ]
    limit: 10
  )
}
```

### 4. Tutti i Film scritti da autori ancora in vita

## SPARQL

```
SELECT ?film WHERE {
  ?film a dbo:Film ;
        dbp:writer ?author .
  FILTER NOT EXISTS{?author dbp:deathDate ?deathDate}
}
```

## GraphQL

```
query {
  searchEntity(
    className: "http://dbpedia.org/ontology/Film"
    filters: [
      {
        path: [
          { property: "http://dbpedia.org/property/writer" }
        ]
      }
    ]
    notExistsFilters: [
      {
        path: [
          { property: "http://dbpedia.org/property/writer" },
          { property: "http://dbpedia.org/property/deathDate" }
        ]
      }
    ]
  )
}
```

**5. Lista di Person nate in un certo luogo (birthPlace) la cui nazione (dbo:country) è l'Italia**

## SPARQL

```
SELECT ?person WHERE {
  ?person a dbo:Person ;
    dbp:birthPlace ?bp .
  ?bp dbo:country dbr:Italy .
}
```

## GraphQL

```
query {
  searchEntity(
    className: "http://dbpedia.org/ontology/Person"
    filters: [
      {
        path: [
          { property: "http://dbpedia.org/property/birthPlace" },
          { property: "http://dbpedia.org/ontology/country",
            value: "http://dbpedia.org/resource/Italy" }
        ]
      }
    ]
  )
}
```

## 6. Primi 10 Film con budget ordinati in modo ascendente

### SPARQL

```
SELECT ?film ?budget WHERE {  
  ?film a dbo:Film ;  
        dbo:budget ?budget .  
}  
ORDER BY ASC(?budget)  
LIMIT 10
```

### GraphQL

```
query {  
  searchEntity(  
    className: "http://dbpedia.org/ontology/Film"  
    selectFields: [  
      "http://dbpedia.org/ontology/budget"  
    ]  
    orderBy: [  
      { property: "http://dbpedia.org/ontology/budget", order: "ASC" }  
    ]  
    limit: 10  
  )  
}
```

## 7. Film scritti da autori morti, con budget opzionale

### SPARQL

```
SELECT * WHERE {  
  ?film a dbo:Film;  
        dbp:writer ?author .  
  ?author dbp:deathDate ?deathDate .  
  OPTIONAL { ?film dbo:budget ?budget }  
}
```

## GraphQL

```
query {  
  searchEntity(  
    className: "http://dbpedia.org/ontology/Film"  
    filters: [  
      {  
        path: [  
          { property: "http://dbpedia.org/property/writer" },  
          { property: "http://dbpedia.org/property/deathDate" }  
        ]  
      }  
    ]  
    optionalFilters: [  
      { property: "http://dbpedia.org/ontology/budget" }  
    ]  
    selectFields: [  
      "http://dbpedia.org/ontology/budget"  
    ]  
  )  
}
```