# 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"
        }
        l
        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

4. Tutti i Film scritti da autori ancora in vita

#### **SPARQL**

# GraphQL

```
query {
  searchEntity(
    className: "http://dbpedia.org/ontology/Film"
    filters: [
      {
        path: [
          { property: "http://dbpedia.org/property/writer" }
        ]
      }
   1
   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

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

### ${\bf SPARQL}$

```
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"
   ]
 )
}
```

### 8. Top 10 città con la popolazione più alta

### **SPARQL**

```
SELECT ?s ?pt WHERE {
    ?s a dbo:City .
    ?s dbp:populationTotal ?pt .
}
ORDER BY DESC(?pt)
LIMIT 10
```

### GraphQL