

Apache Solr Queries

Ingested dataset into Apache Solr

The screenshot shows the Apache Solr Core Admin interface. On the left, there's a sidebar with links like Dashboard, Logging, Security, Core Admin (which is selected), Java Properties, Thread Dump, and Core Selector. The main area has tabs for Core and Index. Under Core, it shows startTime: 6 minutes ago, instanceDir: /var/solr/data/hauntedplaces_dataset, and dataDir: /var/solr/data/hauntedplaces_dataset/data/. Under Index, it shows lastModified: less than a minute ago, version: 28, numDocs: 10993, maxDoc: 10993, deletedDocs: 0, current: ✓, and directory: org.apache.lucene.store.NRTCachingDirectory:NRTCachingDirectory(MMapDirectory@/var/solr/data/hauntedplaces_dataset/data/index; lockFactory=org.apache.lucene.store.NativeFSLockFactory@474e82ad; maxCacheMB=48.0 maxMergeSizeMB=4.0). At the bottom, there are links for Documentation, Solr Query Syntax, Community, Issue Tracker, Slack, and IRC.

Query 1: Find the number of each event

The screenshot shows the Apache Solr Request Handler interface. The left sidebar includes Overview, Analysis, Documents, Params, Files, Ping, Plugins / Stats, Query (selected), Replication, Schema, and Segments info. The main area has a Request Handler (qt) dropdown set to /select. It contains fields for common (q: *:*), q.op (OR), fq, sort, start, rows (0, 0), fl, df, paramset(s) (Select paramset(s)...), vt (----), indent (checked), debugQuery (unchecked), and deftype (----). To the right, a preview window shows the URL http://localhost:8983/solr/hauntedplaces_dataset/select?facet.field=Event_type_str&facet=true&indent=true&q.op=OR&q=%3A&rows=0&useParams= followed by the JSON response. The response header includes status: 200, QTime: 20, and params: {q: "*:*"}, facet.field: "Event_type_str", indent: "true", q.op: "OR", rows: "0", facet: "true", useParams: "", _id: "1746042008978". The response body shows numFound: 10993, start: 0, numFoundExact: true, docs: [], and facet_counts: { facet_queries: {}, facet_fields: {}, Event_type_str: ["Unexplained Movements and Physical Manifestations", 2422], Ghostly Sightings, 2357, Violent or Tragic Deaths, 1381, Sounds and Noises, 1067, Murmurs, 1067, and so on].

Pretty-print

```
{  
  "responseHeader": {  
    "status": 0,  
    "QTime": 24,  
    "params": {  
      "q": "*:*"  
      "facet.field": "Event_type_str",  
      "indent": "true",  
      "q.op": "OR",  
      "rows": "0",  
      "facet": "true",  
      "useParams": ""  
    }  
  },  
  "response": {  
    "numFound": 10993,  
    "start": 0,  
    "numFoundExact": true,  
    "docs": []  
  },  
  "facet_counts": {  
    "facet_queries": {  
    },  
    "facet_fields": {  
      "Event_type_str": [  
        "Unexplained Movements and Physical Manifestations",  
        2422, "Ghostly Sightings",  
        2357, "Violent or Tragic Deaths",  
        1381, "Sounds and Noises",  
        1867, "Murder",  
        919, "Object and Environmental Manipulation",  
        521, "Mysterious Occurrences",  
        453, "Fire and Destruction",  
        218]  
    },  
    "facet_ranges": {  
    },  
    "facet_intervals": {  
    },  
    "facet_heatmaps": {  
    }  
  }  
}
```

Query 2: Find out the number of events happened in different time of the day

The screenshot shows the Solr admin interface with the 'Query' tab selected. The left sidebar lists various datasets, with 'hauntedplaces...' currently selected. The main area contains a 'Request-Handler (qt)' input field set to '/select'. Below it are several configuration fields: 'common' (q: *:*), 'q.op' (set to OR), 'fq' (empty), 'sort' (empty), 'start, rows' (0, 0), 'fl' (empty), 'df' (empty), 'paramset(s)' (empty), 'wt' (set to -----), 'indent on' (checkbox checked), 'debugQuery' (checkbox unchecked), and 'defType' (empty). To the right, the results of a facet pivot query are displayed in a JSON-like format:

```
{  
  "responseHeader": {  
    "status": 0,  
    "QTime": 94,  
    "params": {  
      "facet.limit": "1000",  
      "q": "*:*",  
      "facet.pivot": "Time_of_Day_str,Event_type_str",  
      "indent": "true",  
      "q.op": "OR",  
      "rows": "0",  
      "facet": "true",  
      "useParams": "",  
      "l": "1746042008978"  
    }  
  },  
  "response": {  
    "numFound": 10993,  
    "start": 0,  
    "numFoundExact": true,  
    "docs": []  
  },  
  "facet_counts": {  
    "facet_queries": {},  
    "facet_fields": {},  
    "facet_ranges": {},  
    "facet_intervals": {},  
    "facet_heatmaps": {},  
    "facet_pivot": {  
      "Time_of_Day_str,Event_type_str": [{  
        "field": "Time_of_Day_str",  
        "value": "Unknown",  
        "count": 5372,  
        "label": "Unknown  
5372"  
      }]  
    }  
  }  
}
```

hl

facet

facet.query

facet.field

facet.prefix

facet.contains

facet.contains.ignoreCase

facet.limit

facet.matches

facet.sort

facet.mincount

facet.missing

json.facet [?](#)

spatial

spellcheck

Raw Query Parameters
 facet.pivot=Time_of_Day_str,Event_type

JSON Query [?](#)

Execute Query

```

"pivot":[{
  "field": "Event_type_str",
  "value": "Unexplained Movements and Physical Manifestations",
  "count": 1327
},
{
  "field": "Event_type_str",
  "value": "Ghostly Sightings",
  "count": 1271
},
{
  "field": "Event_type_str",
  "value": "Violent or Tragic Deaths",
  "count": 597
},
{
  "field": "Event_type_str",
  "value": "Sounds and Noises",
  "count": 582
},
{
  "field": "Event_type_str",
  "value": "Murder",
  "count": 396
},
{
  "field": "Event_type_str",
  "value": "Mysterious Occurrences",
  "count": 196
},
{
  "field": "Event_type_str",
  "value": "Fire and Destruction",
  "count": 188
},
{
  "field": "Event_type_str",
  "value": "Object and Environmental Manipulation",
  "count": 44
}
],
{
  "field": "Time_of_Day_str",
  "value": "night",
  "count": 5313,
}

"pivot":[{
  "field": "Event_type_str",
  "value": "Ghostly Sightings",
  "count": 1835
},
{
  "field": "Event_type_str",
  "value": "Unexplained Movements and Physical Manifestations",
  "count": 1835
},
{
  "field": "Event_type_str",
  "value": "Violent or Tragic Deaths",
  "count": 739
},
{
  "field": "Event_type_str",
  "value": "Sounds and Noises",
  "count": 541
},
{
  "field": "Event_type_str",
  "value": "Murder",
  "count": 489
},
{
  "field": "Event_type_str",
  "value": "Object and Environmental Manipulation",
  "count": 466
},
{
  "field": "Event_type_str",
  "value": "Mysterious Occurrences",
  "count": 236
},
{
  "field": "Event_type_str",
  "value": "Fire and Destruction",
  "count": 186
}
],
{
  "field": "Time_of_Day_str",
  "value": "morning",
  "count": 178,
}
]

```

```
"pivot":[{
    "field":"Event_type_str",
    "value":"Ghostly Sightings",
    "count":32
},{
    "field":"Event_type_str",
    "value":"Unexplained Movements and Physical Manifestations",
    "count":29
},{
    "field":"Event_type_str",
    "value":"Violent or Tragic Deaths",
    "count":26
},{
    "field":"Event_type_str",
    "value":"Murder",
    "count":18
},{
    "field":"Event_type_str",
    "value":"Mysterious Occurrences",
    "count":14
},{
    "field":"Event_type_str",
    "value":"Sounds and Noises",
    "count":12
},{
    "field":"Event_type_str",
    "value":"Object and Environmental Manipulation",
    "count":5
},{
    "field":"Event_type_str",
    "value":"Fire and Destruction",
    "count":1
}]
},{
    "field":"Time_of_Day_str",
    "value":"evening",
    "count":93,
}

"pivot":[{
    "field":"Event_type_str",
    "value":"Unexplained Movements and Physical Manifestations",
    "count":23
},{
    "field":"Event_type_str",
    "value":"Ghostly Sightings",
    "count":15
},{
    "field":"Event_type_str",
    "value":"Violent or Tragic Deaths",
    "count":13
},{
    "field":"Event_type_str",
    "value":"Murder",
    "count":9
},{
    "field":"Event_type_str",
    "value":"Sounds and Noises",
    "count":9
},{
    "field":"Event_type_str",
    "value":"Mysterious Occurrences",
    "count":6
},{
    "field":"Event_type_str",
    "value":"Fire and Destruction",
    "count":3
},{
    "field":"Event_type_str",
    "value":"Object and Environmental Manipulation",
    "count":2
}
]
},{
    "field":"Time_of_Day_str",
    "value":"afternoon",
    "count":37,
```

```
    "pivot":{[
      {"field":"Event_type_str",
       "value":"Unexplained Movements and Physical Manifestations",
       "count":8
     },{
      {"field":"Event_type_str",
       "value":"Murder",
       "count":7
     },
     {
      {"field":"Event_type_str",
       "value":"Violent or Tragic Deaths",
       "count":6
     },
     {
      {"field":"Event_type_str",
       "value":"Ghostly Sightings",
       "count":4
     },
     {
      {"field":"Event_type_str",
       "value":"Object and Environmental Manipulation",
       "count":4
     },
     {
      {"field":"Event_type_str",
       "value":"Sounds and Noises",
       "count":3
     },
     {
      {"field":"Event_type_str",
       "value":"Mysterious Occurrences",
       "count":1
     }
   }]
}
```

[!\[\]\(8af806fb1314382d09bc5ec5b767526c_img.jpg\) Documentation](#) [!\[\]\(e640e0608cc7d5ca49cf1ad6b9b82bbd_img.jpg\) Solr Query Syntax](#) [!\[\]\(92b03d1f12d69c4f54507e4fc2d5d7f3_img.jpg\) Community](#) [!\[\]\(6677381d1ca16a89651ff93f23d60b0b_img.jpg\) Issue Tracker](#) [!\[\]\(3effedc99d3e22c541dd98aafa5ea5a5_img.jpg\) Slack](#) [!\[\]\(78ad2220eef273dc6d30911ba0352514_img.jpg\) IRC](#)

Query 3: Top states with more haunting places?

The screenshot shows the Solr Admin interface with the 'Request-Handler (qt)' set to '/select'. The search parameters are as follows:

- q: *:*
- q.op: OR
- fq: (empty)
- sort: (empty)
- start, rows: 0, 0
- fl: (empty)
- df: (empty)
- paramset(s): Select paramset(s)...
- wt: json
- indent on: checked
- debugQuery: unchecked
- defType: (empty)

The right side displays the JSON response from the Solr server:

```
{ "responseHeader":{ "status":0, "QTime":33, "params":{ "q":"*:*", "facet.field":"state_str", "indent":true, "q.op":OR, "rows":0, "facet":true, "useParams": "", "_":1746042088978 } }, "response":{ "numFound":10993, "start":0, "numFoundExact":true, "docs":[] }, "facet_counts":{ "facet_queries":{ }, "facet_fields":{ "state_str":["California",1070,"Texas",696,"Pennsylvania",649,"Michigan",530,"Ohio",477,"New York",459,"Illinois",395,"Kentucky",370,"Indiana",351,"Massachusetts" ] }, "facet_ranges":{ }, "facet_intervals":{ }, "facet_heatmaps":{ } } }
```

Query 4: Distribution of haunting reports by ZIP code

Solr

Request-Handler (qt) /select

common

q *;*

q.op OR

fq

sort

start, rows 0 0

fl

df

paramset(s) Select paramset(s)...

wt -----

indent on

debugQuery

defType -----

```
{
  "responseHeader": {
    "status": 0,
    "QTime": 166,
    "params": {
      "facet.limit": "1000",
      "q": "*;*",
      "facet.field": "ZIP_Code_s",
      "indent": "true",
      "q.op": "OR",
      "rows": "0",
      "facet": "true",
      "useParams": "",
      "_": "1746042008978"
    }
  },
  "response": {
    "numFound": 10993,
    "start": 0,
    "numFoundExact": true,
    "docs": []
  },
  "facet_counts": {
    "facet_queries": {},
    "facet_fields": {
      "ZIP_Code_s": ["20770", "20", "78285", "18", "17325", "16", "70116", "14", "92501", "14", "32084", "13", "32765", "13", "5401", "13", "78040", "13", "78041", "13", "1978", "12", "23185", "12", "42101", "12", "49757"]
    },
    "facet_ranges": {},
    "facet_intervals": {},
    "facet_heatmaps": {}
  }
}
```

Query 5: Image Object Frequency Analysis

Solr

Request-Handler (qt) /select

common

q *;*

q.op OR

fq

sort

start, rows 0 0

fl

df

paramset(s) Select paramset(s)...

wt -----

indent on

debugQuery

defType -----

```
{
  "responseHeader": {
    "status": 0,
    "QTime": 65,
    "params": {
      "facet.limit": "1000",
      "q": "*;*",
      "facet.field": "detected_objects_str",
      "indent": "true",
      "q.op": "OR",
      "rows": "0",
      "facet": "true",
      "useParams": "",
      "_": "1746042008978"
    }
  },
  "response": {
    "numFound": 10993,
    "start": 0,
    "numFoundExact": true,
    "docs": []
  },
  "facet_counts": {
    "facet_queries": {},
    "facet_fields": {
      "detected_objects_str": ["church", "church building", "79", "cinema", "movie theater", "movie theatre", "movie house", "picture palace", "78", "prison", "prison house", "47", "church", "chi"]
    },
    "facet_ranges": {},
    "facet_intervals": {},
    "facet_heatmaps": {}
  }
}
```

Pretty-print

```
},  
"facet_fields": {  
  "detected_objects_str": [  
    "church, church building",  
    79, "cinema, movie theater, movie theatre, movie house, picture palace",  
    78, "prison, prison house",  
    47, "church, church building, bell cote, bell cot",  
    32, "picket fence, paling",  
    28, "palace, castle",  
    26, "library",  
    25, "restaurant, eating house, eating place, eatery",  
    25, "street sign",  
    24, "palace",  
    22, "barn",  
    18, "beacon, lighthouse, beacon light, pharos",  
    18, "brass, memorial tablet, plaque",  
    18, "bell cote, bell cot, church, church building",  
    17, "prison, prison house, vault",  
    17, "theater curtain, theatre curtain, cinema, movie theater, movie theatre, movie house, picture palace, stage",  
    17, "cinema, movie theater, movie theatre, movie house, picture palace, theater curtain, theatre curtain, stage",  
    16, "megalith, megalithic structure",  
    13, "prison, prison house, library",  
    12, "theater curtain, theatre curtain",  
    12, "palace, library",  
    11, "spotlight, spot",  
    11, "abaya, cloak",  
    10, "bell cote, bell cot",  
    10, "suspension bridge",  
    10, "bannister, banister, balustrade, balusters, handrail",  
    9, "cinema, movie theater, movie theatre, movie house, picture palace, stage, theater curtain, theatre curtain",  
    9, "mailbox, letter box",  
    9, "swing",  
    9, "boathouse, lakeside, lakeshore",  
    8, "mobile home, manufactured home",  
    8, "park bench",  
    8, "picket fence, paling, patio, terrace",  
    8, "street sign, traffic light, traffic signal, stoplight",  
    8, "church, church building, monastery",  
    7, "cinema, movie theater, movie theatre, movie house, picture palace, restaurant, eating house, eating place, eatery",  
    7, "four-poster, quilt, comforter, comfort, puff, studio couch, day bed",  
    7, "lakeside, lakeshore",  
    7, "rocking chair, rocker",  
    7, "torch",  
    7, "torch"
```