Apache Solr

* About solr/Lucene

Apache Solr is an open source enterprise search platform which is part of the Apache Lucene project.

Apache Solr was developed using Java and runs as a standalone, full-text search server which is contained within a servlet like Jetty. As part of the Lucene project, Solr uses the Lucene Java search library as its core for searching and indexing.

* Solr query
  1. Boolean query

{core\_name}/select?q=term AND term2

{core\_name}/select?q=term OR term2

{core\_name}/select?q=term NOT term2

* 1. Phrase query

{core\_name}/select?q=”term term2”

* 1. Wildcard query

{core\_name}/select?q=te\*

{core\_name}/select?q=te?m

* 1. Proximity query (within)

{core\_name}/select?q=”term1 term5”~5

* 1. Range query

{core\_name}/select?q=field:[0 TO 10]

* 1. Filter query

{core\_name}/select?q=term&fq= field:[0 TO 10]

* 1. Disjunction max query

{core\_name}/select?q=term&defType=dismax&qf={field1+ field2..}

* 1. Facet query

{core\_name}/select?q=term&facet=true&facet.field={field}

* 1. Debug query

{core\_name}/select?q=term&debug=true

## **Indexing time:**

Create Core

admin/cores?action=CREATE&name={core\_name}&instanceDir={core\_dir}

Unload Core

admin/cores?action=UNLOAD&core={core\_name}

Full-import Indexing

{Core\_name}/dataimport?command=full-import&commit=true

Indexing status

{Core\_name}/dataimport?

CSV indexing

{Core\_name}/update?stream.file=\solr-8.4.1\example\exampledocs\books.csv&commit=true&fieldnames=id,cat,name,price,inStock,author,series\_t

* Important parameters:

1. q
2. fl
3. wt
4. df
5. indent
6. rows
7. sort

* Download latest solr version

<https://archive.apache.org/dist/lucene/solr/>

## Solr start command

solr\bin> solr start

* Solr Home structure

solrHome >

solr\_core > conf > configuration file

data > data storage