Movies Dataset

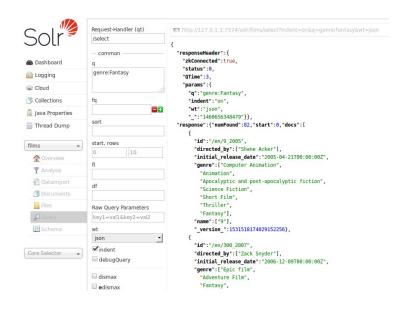
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To be remembered... Prospective Search Tasks

- Search for a movie by its Title
- Search for a movie by its Gender
- Search for a movie by its Origin/Ethnicity
- Search for a movie by its Release Year (with ranges)
- Search for a movie by its Director
- Search for a movie by its Cast (Actors)
- Search for a movie by keywords in the Plot

Information Retrieval Tool





Collection of data

- Build the docker image: 1 core only
- collection.sh script
 - o Posts schema with the indexes
 - Populates the core with the content of the csv file

Indexing I

Field	Type	Solr class	MultiValued
Title	synonym_text	TextField	false
Origin	porter_text	TextField	false
Plot	plot_text	TextField	false
Release	number	IntPointField	false
Year			
Genre	synonym	TextField	true
Director	char_text	TextField	true
Cast	char_text	TextField	true

Table 2: Description of schema fields

Indexing II

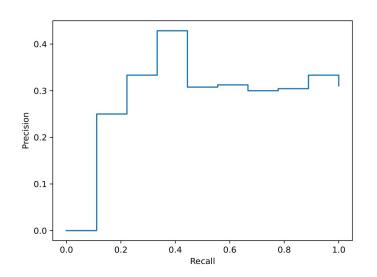
- synonym_text
 - ASCII Folding filter
 - Lower Case Filter
 - Synonym Graph Filter
 - Porter Stem Filter
- porter_text
 - ASCII Folding filter
 - Lower Case Filter
 - Porter Stem Filter

- plot_test
 - ASCII Folding filter
 - Lower Case Filter
 - Synonym Graph Filter
 - Porter Stem Filter
 - English Possessive Filter
 - Hyphenated Words Filter
 - Stop Filter
- char_test
 - ASCII Folding filter
 - Lower Case Filter
 - Mapping Char filter

Drama movies with Bollywood origin released in 2015 or after

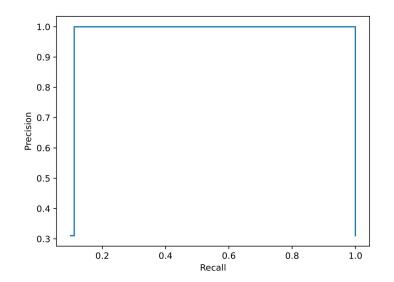
Option	Value
q	Genre:drama AND Origin_Ethnicity:bollywood
	AND Released_Year:[2015 TO *]
qf (boost)	Genre^5 Origin_Ethnicity^3 Released_Year

Table 3: Arguments of query 1



Metric	Value	Value with boost
AvP	0.34	0.67
P@10	0.4	0.9

Table 4: Precision metrics for query 1



Movies starring Robert De Niro and are of italian mafia

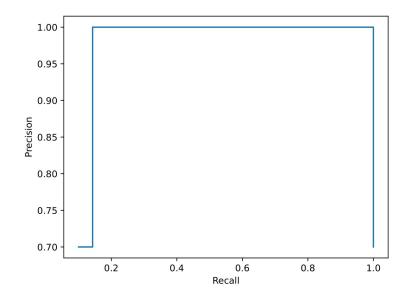
Option	Value	
q	Cast:"Robert de Niro" AND (Plot:mafia OR	
	Plot:Italian)	
qf (boost)	Cast^5 Plot:mafia^3 Plot:italian	

Table 5: Arguments of query 2

0.8 -						
0.6 -						
Precision - 5.0						
0.2 -						
0.0 -	0.0	0.2	0.4 Recall	0.6	0.8	1.0

Metric	Value	Value with boost
AvP	0.66	0.96
P@10	0.7	0.7

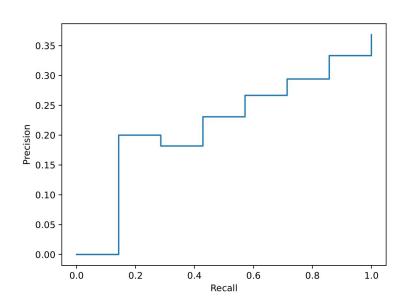
Table 6: Precision metrics for query 2



Movies directed by Steven Spielberg about murder

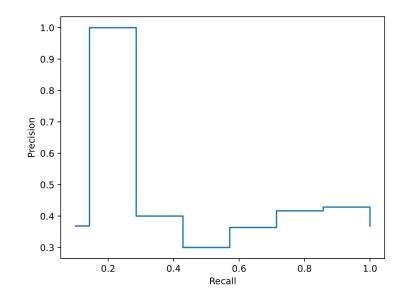
Option	Value
q	Director: "Steven Spielberg" AND (Plot:murder
	OR Plot:kill)
qf (boost)	Director^5 Plot:murder^3 Plot:kill

Table 7: Arguments of query 3



Metric	Value	Value with boost
AvP	0.26	0.49
P@10	0.2	0.3

Table 8: Precision metrics for query 3



Police action movies from the year 2000

Option	Value	
q	Plot:police AND Genre:action AND Re-	
	lease_Year:2000	
qf (boost)	Plot:police^5 Genre:action^3 Releaseyear	

Table 9: Arguments of query 4

0.25

0.20

Precision 0.15

0.10

0.05

0.00

0.0

0.2

0.4

Recall

0.6

0.8

T

1.0

Metric	Value	Value with boost
AvP	0.18	0.6
P@10	0.3	0.4

Table 10: Precision metrics for query 4

