QUERY : "power of"

trec_rel_file.txt

qid	iter	doc	rel
111	0	1	1
111	0	2	0
111	0	3	0
111	0	4	0
111	0	5	1

trec_top_file.txt (bm25)

qid	iter	doc	rank	sim	run_id
111	0	5	1	1.04438791077	run1
111	0	1	2	0.789198946509	run1
111	0	4	3	0.603419067539	run1

trec_top_file.txt (lmjm)

qid	iter	doc	rank	sim	run_id
111	0	5	1	2.45078070439	run1
111	0	1	2	2.44979371848	run1
111	0	4	3	1.34518820287	run1

Results (bm25)

num_q	all	1
num_ret	all	3
num_rel	all	2
num_rel_ret	all	2
map	all	1.0000
gm_ap	all	1.0000
R-prec	all	1.0000
bpref	all	1.0000
recip_rank	all	1.0000
ircl_prn.0.00	all	1.0000
ircl_prn.0.10	all	1.0000
ircl_prn.0.20	all	1.0000
ircl_prn.0.30	all	1.0000
ircl_prn.0.40	all	1.0000
ircl_prn.0.50	all	1.0000
ircl_prn.0.60	all	1.0000
ircl_prn.0.70	all	1.0000
ircl_prn.0.80	all	1.0000

ircl_prn.0.90	all	1.0000
ircl_prn.1.00	all	1.0000
P5	all	0.4000
P10	all	0.2000
P15	all	0.1333
P20	all	0.1000
P30	all	0.0667
P100	all	0.0200
P200	all	0.0100
P500	all	0.0040
P1000	all	0.0020

Results (lmjm)

Ritis-MacBook-Pro:lmjm ritigupta$ **trec_eval trec_rel_file.txt trec_top_file.txt**

num_q	all	1
num_ret	all	3
num_rel	all	2
num_rel_ret	all	2
map	all	1.0000
gm_ap	all	1.0000
R-prec	all	1.0000
bpref	all	1.0000
recip_rank	all	1.0000
ircl_prn.0.00	all	1.0000
ircl_prn.0.10	all	1.0000
ircl_prn.0.20	all	1.0000
ircl_prn.0.30	all	1.0000
ircl_prn.0.40	all	1.0000
ircl_prn.0.50	all	1.0000
ircl_prn.0.60	all	1.0000
ircl_prn.0.70	all	1.0000
ircl_prn.0.80	all	1.0000
ircl_prn.0.90	all	1.0000
ircl_prn.1.00	all	1.0000
P5	all	0.4000
P10	all	0.2000
P15	all	0.1333
P20	all	0.1000
P30	all	0.0667
P100	all	0.0200
P200	all	0.0100
P500	all	0.0040
P1000	all	0.0020

CONCLUSION: Both LMJM and BM25 have similar results (map scores, ranking) in the experiment conducted