Your Name:

Your Andrew ID:

Homework 2

0 Introduction

0.1 Collaboration and Originality

1. Did you receive help of any kind from anyone (other than the instructor or TAs) in developing your software for this assignment (Yes or No)? If you answered Yes, provide the name(s) of anyone who provided help, and describe the type of help that you received.

2. Did you give help of any kind to anyone in developing their software for this assignment (Yes or No)? If you answered Yes, provide the name(s) of anyone that you helped, and describe the type of help that you provided.

3. Did you examine anyone else's software for this assignment (Yes or No)? Do not describe software provided by the instructor.

4. Are you (or the course instructor) the author of every line of source code submitted for this assignment (Yes or No)? If you answered No:
    a. identify the software that you did not write,
    b. explain where it came from, and
    c. explain why you used it.

5. Are you the author of every word of your report (Yes or No)? If you answered No:
    a. identify the text that you did not write,
    b. explain where it came from, and
    c. explain why you used it.

0.2 Format

Instructions are shown in this red italic bold font. Do not include instructions in your report. For example, delete this subsection, and in the next section, delete the instruction paragraphs.

Leave the page breaks between sections, as shown in this template. For example, Sections 1.1 and 1.2 must be on different pages.

There is a 2 point deduction for not following format instructions because it creates extra work during grading.

1 Documents and Terms

1.1 Documents and Terms Parameters

Document the parameters used in your experiments. Briefly describe the configurations used in your experiments and your reasons for selecting those configurations.

Hint: Parameter sweeps don't show much imagination.

1.2 Documents and Terms: Experimental Results

Present your experimental results for each query set, in the format shown below. Report win:tie:loss compared to the baseline BOW system (# wins : #ties : # losses).

Your .zip / .tgz file must include files named HW1-Exp-1.1a.qry, HW1-Exp-1.1a.param, etc., in the QryEval directory. The experimental results shown below must be reproducible by these files.

	No PRF (Exp-1.1a)	PRF			
		5 docs 5 terms (Exp-1.1b)	10 docs 10 terms (Exp-1.1c)	20 docs 20 terms (Exp-1.1d)	30 docs 30 terms (Exp-1.1e)
MRR	0.0000	0.0000	0.0000	0.0000	0.0000
P@10	0.0000	0.0000	0.0000	0.0000	0.0000
P@20	0.0000	0.0000	0.0000	0.0000	0.0000
P@30	0.0000	0.0000	0.0000	0.0000	0.0000
NDCG@10	0.0000	0.0000	0.0000	0.0000	0.0000
NDCG@20	0.0000	0.0000	0.0000	0.0000	0.0000
NDCG@30	0.0000	0.0000	0.0000	0.0000	0.0000
MAP	0.0000	0.0000	0.0000	0.0000	0.0000
win/tie/loss	n/a	00 : 00 : 00	00 : 00 : 00	00 : 00 : 00	00 : 00 : 00
Run Time	mm:ss	mm:ss	mm:ss	mm:ss	mm:ss

	PRF			
	n_1 docs m_1 terms (Exp-1.2a)	n_2 docs m_2 terms (Exp-1.2b)	n_3 docs m_3 terms (Exp-1.2c)	n_4 docs m_4 terms (Exp-1.2d)
MRR	0.0000	0.0000	0.0000	0.0000
P@10	0.0000	0.0000	0.0000	0.0000
P@20	0.0000	0.0000	0.0000	0.0000
P@30	0.0000	0.0000	0.0000	0.0000
NDCG@10	0.0000	0.0000	0.0000	0.0000
NDCG@20	0.0000	0.0000	0.0000	0.0000
NDCG@30	0.0000	0.0000	0.0000	0.0000
MAP	0.0000	0.0000	0.0000	0.0000
win/tie/loss	00 : 00 : 00	00 : 00 : 00	00 : 00 : 00	00 : 00 : 00
Run Time	mm:ss	mm:ss	mm:ss	mm:ss

2 Initial Ranking Quality

2.1 Initial Ranking Quality: Parameters

Document the parameters used in your experiments. Briefly describe the configurations used in your experiments and your reasons for selecting those configurations.

2.2 Initial Ranking Quality: Experimental Results

	baseline (Exp-1.xy)	**Ranked Boolean (Exp-2.1a)**	**config2 (Exp-2.1b)**	**config$_3$ (Exp-2.1c)**	**config$_4$ (Exp-2.1d)**
MRR	0.0000	0.0000	0.0000	0.0000	0.0000
P@10	0.0000	0.0000	0.0000	0.0000	0.0000
P@20	0.0000	0.0000	0.0000	0.0000	0.0000
P@30	0.0000	0.0000	0.0000	0.0000	0.0000
NDCG@10	0.0000	0.0000	0.0000	0.0000	0.0000
NDCG@20	0.0000	0.0000	0.0000	0.0000	0.0000
NDCG@30	0.0000	0.0000	0.0000	0.0000	0.0000
MAP	0.0000	0.0000	0.0000	0.0000	0.0000
win/tie/loss	n/a	00 : 00 : 00	00 : 00 : 00	00 : 00 : 00	00 : 00 : 00
Run Time	mm:ss	mm:ss	mm:ss	mm:ss	mm:ss

The Exp-1.xy result from Section 1.2 is used as a baseline for comparison. Identify the baseline.

3 PRF for Other Fields

3.1 PRF for Other Fields: Parameters

Document the parameters used in your experiments. Briefly describe the configurations used in your experiments and your reasons for selecting those configurations.

Hint: Parameter sweeps don't show much imagination.

3.2 PRF for Other Fields: Experimental Results

	baseline (Exp-x.yz)	config$_1$ (Exp-3.1b)	config$_2$ (Exp-3.1c)	config$_3$ (Exp-3.1d)	config$_4$ (Exp-3.1e)
MRR	0.0000	0.0000	0.0000	0.0000	0.0000
P@10	0.0000	0.0000	0.0000	0.0000	0.0000
P@20	0.0000	0.0000	0.0000	0.0000	0.0000
P@30	0.0000	0.0000	0.0000	0.0000	0.0000
NDCG@10	0.0000	0.0000	0.0000	0.0000	0.0000
NDCG@20	0.0000	0.0000	0.0000	0.0000	0.0000
NDCG@30	0.0000	0.0000	0.0000	0.0000	0.0000
MAP	0.0000	0.0000	0.0000	0.0000	0.0000
win/tie/loss	n/a	00 : 00 : 00	00 : 00 : 00	00 : 00 : 00	00 : 00 : 00
Run Time	mm:ss	mm:ss	mm:ss	mm:ss	mm:ss

The Exp-x.yz result from Section 1.2 or Section 2.2 is used as a baseline for comparison. Identify the