Precision-recall 1/3

Precision-recall average exercise

Query 1

R1 = { D3, D5, D9, D25, D39, D44, D56, D71, D89, D123 }

Order	Precision	Recall
* D123	1/1	1/10
- D84	1/2	1/10
* D56	2/3	2/10
- D6	2/4	2/10
- D8	2/5	2/10
* D9	3/6	3/10
- D511	3/7	3/10
- D129	3/8	3/10
- D187	3/9	3/10
* D25	4/10	4/10
- D38	4/11	4/10
- D48	4/12	4/10
- D250	4/13	4/10
- D113	4/14	4/10
* D3	5/15	5/10

Query 2

R2 = { D3, D5, D9, D25, D39, D44, D56, D71, D89, D123 }

Order	Precision	Recall
* D123	1/1	1/10
- D84	1/2	1/10
* D39	2/3	2/10
* D9	3/4	3/10
- D8	3/5	3/10
* D71	4/6	4/10

Precision-recall 2/3

Order	Precision	Recall	
* D44	5/7	5/10	
- D129	5/8	5/10	
- D187	5/9	5/10	
* D25	6/10	6/10	
- D38	6/11	6/10	
- D48	6/12	6/10	
- D250	6/13	6/10	
- D113	6/14	6/10	
* D3	7/15	7/10	

Precision and recalls summarize

Precision Q1	Recall Q1	Precision Q2	Recall Q2
1/1=1	1/10= 0.1	1/1= 1	1/10 =0.1
1/2=0.5	1/10= 0.1	1/2= 0.5	1/10 =0.1
2/3=0.666667	2/10= 0.2	2/3= 0.666667	2/10 =0.2
2/4=0.5	2/10= 0.2	3/4 =0.75	3/10 =0.3
2/5 =0.4	2/10= 0.2	3/5 =0.6	3/10 =0.3
3/6=0.5	3/10 =0.3	4/6= 0.666667	4/10 =0.4
3/7 =0.428571	3/10 =0.3	5/7 =0.714286	5/10 =0.5
3/8=0.375	3/10 =0.3	5/8 =0.625	5/10 =0.5
3/9=0.333333	3/10= 0.3	5/9 =0.555556	5/10 =0.5
4/10= 0.4	4/10= 0.4	6/10 =0.6	6/10 =0.6
4/11=0.363636	4/10= 0.4	6/11 =0.545455	6/10 =0.6
4/12 =0.333333	4/10= 0.4	6/12 =0.5	6/10 =0.6
4/13 =0.307692	4/10= 0.4	6/13 =0.461538	6/10 =0.6
4/14= 0.285714	4/10= 0.4	6/14 =0.428571	6/10 =0.6
5/15= 0.333333	5/10 =0.5	7/15 =0.466667	7/10 =0.7

Precision and recall averages

 Precision-recall 3/3

Average Precision	Average Recall	
1/1= 1	1/10= 0.1	
1/2=0.5	1/10= 0.1	
2/3=0.666667	1/5= 0.2	
5/8= 0.625	1/4=0.25	
1/2=0.5	1/4=0.25	
7/12 =0.583333	7/20 =0.35	
4/7=0.571429	2/5 =0.4	
1/2=0.5	2/5 =0.4	
4/9= 0.44444	2/5 =0.4	
1/2=0.5	1/2 =0.5	
5/11 =0.454545	1/2 =0.5	
5/12 =0.416667	1/2 =0.5	
5/13 =0.384615	1/2 =0.5	
5/14 =0.357143	1/2 =0.5	
2/5= 0.4	3/5=0.6	

Averages' graph:

