0-1

@ Brosnan AND Sean Not ROGER Page-1
[d2] and [d2, d5, d6] Assuming AND here

=> {d2} Ano

(pavid OR Cyeorge AND (NOT Daniel)

=> {d, d2, d3, d4, d5, d7) And (d3, d7)

=> {d3,d7} Ano

@ Timothy AND Sean OR Brosnan of Daniel

=> or {d1, d2, d3, d4, d5, d6, d7}

=> {d, d2, d3, d4, d5, d6, d7} Ano

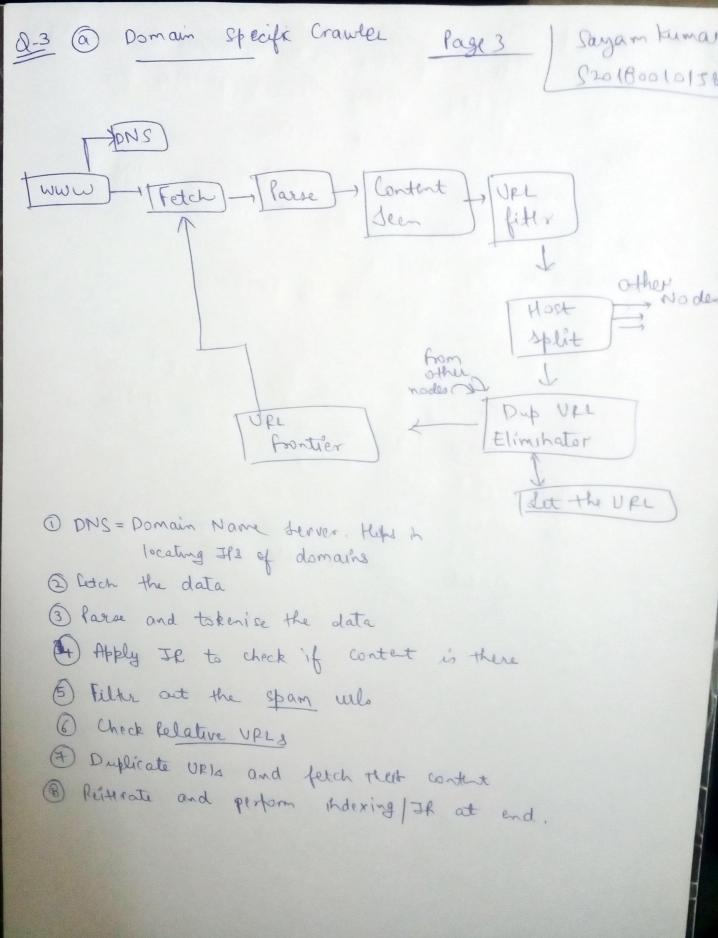
Dictionary = Piji, is, an, island, country, in,
the, south, Seoul, closer, to, Japan,
a, having, more, than, one, reachable,
from

N=4 Next lage

C	ni	0.301	0.301		1	2.301			
Fiji	2	0	0	0	0	0			
is	4	0.602	0.602	-	_	Clage -			
an	1		0.301		0.301				
brakai	2	0.301		-		0.124			
country	3	0.1249	0.124	-	0.124				
in	1	0.602	0.602	-					
the		0.602	0.602						
altuce	1	0.602	0.602						
2coul	1	0.602	-	0.602	-				
closer	1	0.602		0.602					
to		0.602		0.602					
Japan	3			-					
a	1	0.1249		0.1249	0.124	0.124			
to hav	ing 1	0.602			0.602				
more	1	0.602	-		0.602				
than	,	0.602			0.602				
One	1	0.602			0.602				
reachabl	e 1	0.602	-		0.602				
tom	1	0.602	-		-	0.602			
		145							
		(109 TO V)	(i) (02,1	w _{2,2}	wis, wis	111.0			
		Asymb a	nd taking	log fre	. /				
query				2 1.4	r (1+ 10910+	4)			
	٥ -	japan an	haoloi						
query= is japan an island or country									
japan									
an									
risland									
0-									

0.

Country



Description of more words (synonyms or in Tager)

9t means addition of more words (synonyms or in Tager)

context) or finding query relevant phrases for

lutter retireval for It system

we can do away expansion in following ways >

0 Adding synonyms (manully the saurus)

2 Automatically derived

(from gramatically positions)

3 Overy equiralence

Example Let's say I search for "kricket", then query expansion tomo canbe either

- 1 cricket scores today
- 2 cricket matches / tomorrow
- 3 ricket rules
- 1 wicht grand etc. etc.

Ranki	Type	Recale	Precision	PR	inter p
1	NR		1	0	0.5
2	R	1/6	1/2	0.1	0.5
3	R	2/16	2/3	0.2	0.5
4	NK			0-3	0.57
5	NR			04	0
6	R	3/16	1/2	0.5	0
7	R	4/16	4/7	0.6	0
В	NE		1	0.7	0
9	R	5/16	5/9	0.8	0
10	R	6/16	6/28	0.9	0

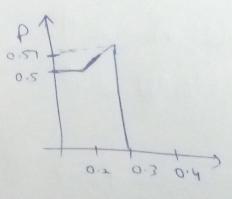
average precision

Average Poecision
$$= \frac{1}{16} \left(\frac{1}{2} + \frac{2}{3} + \frac{1}{2} + \frac{4}{9} + \frac{6}{10} \right)$$

$$= 0.211$$

dells say scores assigned
G= 20,3,3,0,0,3,3,0,3,37

Commulative Crain = 18



9/2/1000/ taking 1st, 2nd and 6th colum

d1= 11 1 Pi=0-5 top2

d2 = 101

dy= 110

d5=101

11 t2 t3 ni 4 2 4 ui .4 02 0.1

SC(d, a) = tog f3 = { [log fi + log [-ui] = 1 lo

 $S((d_2, \alpha)) = (\log \frac{1}{\log 1} + \log \frac{1 - \alpha_1}{\alpha_1}) + \log \frac{1}{\log 2} + \log (\frac{1 - \alpha_2}{\alpha_2}) = 100$

2 ((dy, a)) = 1/2

sc(d5, ay) = 6

= d2 > (d1 = d4) > d5 7 d3

Ans di 7 (05=02) 7 dy 7 d3