



select ?party-name, ?head-party

where {

?p premise ?party-name

?r child ?head-party

?p pin ?r

?p instance of party

?k kin ?r

?r instance of running

?k exdate "27.3.2023"

?k instance of kheset

}

האם יש משהו שיש לי שם?

select ?kno, ?party-name

where {

?p premise ?party-name

?p pin ?r

?p instance of party

?k kin ?r

?r instance of running

?kno instance of kheset

}

האם יש משהו שיש לי שם?

	$d_1$	$d_2$	Total_files
tables	25	10	4
Chairman	15	30	6
total words in file	250	150	

$$IDF("tables") = \frac{1}{4}$$

$$IDF("chairman") = \frac{1}{6}$$

$$TF(d_1, "tables") = \log_{10}\left(1 + \frac{25}{250}\right) = 0.0569 \approx 0.057$$

$$TF(d_1, "chairman") = \log_{10}\left(1 + \frac{15}{250}\right) = 0.0253 \approx 0.025$$

$$TF(d_2, "tables") = \log_{10}\left(1 + \frac{10}{150}\right) = 0.0280 \approx 0.028$$

$$TF(d_2, "chairman") = \log_{10}\left(1 + \frac{30}{150}\right) = 0.0791 \approx 0.079$$

$$r(d_1, Q) = 0.057 \cdot \frac{1}{4} + 0.025 \cdot \frac{1}{6} = 0.0184 \approx 0.018$$

$$r(d_2, Q) = 0.028 \cdot \frac{1}{4} + 0.079 \cdot \frac{1}{6} = 0.0201 \approx 0.02$$

$d_2$  is more relevant  $d_2$  than  $d_1$  because  $r(d_2, Q) > r(d_1, Q)$  is clear

4) נתון  $p = 0.18$ , הסיכוי שמענה יהיה 1 או 2

	1	2	3
1	0	1	0
2	$\frac{1}{2}$	0	$\frac{1}{2}$
3	1	0	0

ההסתברות שאותה מענה תיבחר היא  $p$   
 כלומר  $p(1) = p(2) = p(3) = \frac{1}{3}$

$$p(1) = p(2) = p(3) = \frac{1}{3}$$

$$p(1) = \frac{0.18}{3} + (1-0.18) \cdot \left( \frac{1}{2} \cdot p(2) + 1 \cdot p(3) \right) = 0.06 + 0.82 \left( \frac{1}{2} p(2) + p(3) \right)$$

$$p(2) = \frac{0.18}{3} + (1-0.18) \cdot (1 \cdot p(1)) = 0.06 + 0.82(p(1))$$

$$p(3) = \frac{0.18}{3} + (1-0.18) \cdot \left( \frac{1}{2} \cdot p(2) \right) = 0.06 + 0.82 \left( \frac{1}{2} \cdot p(2) \right)$$

הנחת:  $p(1) = p(2) = p(3)$

$$p(1) = 0.06 + 0.82 \left( \frac{1}{2} \cdot \frac{1}{3} + \frac{1}{3} \right) = 0.47$$

$$p(2) = 0.06 + 0.82 \left( \frac{1}{3} \right) = \frac{1}{3}$$

$$p(3) = 0.06 + 0.82 \left( \frac{1}{2} \cdot \frac{1}{3} \right) = \frac{59}{300}$$

הנחת:  $p(1) = p(2) = p(3)$

$$p(1) = 0.06 + 0.82 \left( \frac{1}{2} \cdot \frac{1}{3} + \frac{59}{300} \right) = \frac{5369}{15000} \approx 0.3579 \approx 0.358$$

$$p(2) = 0.06 + 0.82(0.47) = 0.4454 \approx 0.445$$

$$p(3) = 0.06 + 0.82 \left( \frac{1}{2} \cdot \frac{1}{3} \right) = \frac{59}{300} \approx 0.1966 \approx 0.196$$

212 > 112 > 312

הנחת:  $p(1) = p(2) = p(3)$

312 היא המענה הנכון ביותר