Query Likelihood Retrieval Model

Query	Dog		Rel	User likes d
q	d		R	1 1 1 1 1 1 1 1 1 1
$\overline{q1}$	d1	1		$f(q,d)=p(R=1 d,q)\approx p(q d,R=1)$
q1	d2	1		
q1	d3	0		
q1	d4	0		How likely the user enters q
q1	d5	1		
• • •				Accumption
q1	d1	0		Assumption:
q1	d2	1		A user formulates a query based on an
q1	d3	0		"imaginary relevant document"
q2	d3	1		inaginary relevant document
q3	d1	1		
q4	d2	1		5
<i>1</i>	12	\circ		