Original Query	Method	Top-1 Candidate Query	$\eta(\mathcal{R}^*, q')$	$\lambda(q_0, q')$	$d($
$q_0.1$	Our Approach($\alpha = 2$)	emergency, research, system	0.4	0.88	3
$q_0.1$	Our Approach($\alpha = 16$)	emergency, research, system	0.4	0.88	3
$q_0.1$	Intuitive Solution	emergency, research, system	0.4	0.88	3
$q_0.1$	XO-QP (No Dist)	pinch, breakdown, system	0.6	0.94	6
$q_0.1$	XO-QP (Dist)	pinch, breakdown, system	0.6	0.94	6
$q_0.7$	Our Approach($\alpha = 2$)	online, content, exchange	0.1	0.52	0
$q_0.7$	Our Approach($\alpha = 16$)	online, faith, merchandising	0.1	1	6
$q_0.7$	Intuitive Solution	online, faith, merchandising	0.1	1	6
$q_0.7$	XO-QP (No Dist)	online, faith, trading	1	1	6
$q_0.7$	XO-QP (Dist)	online, faith, trading	1	1	6
$q_0.8$	Our Approach($\alpha = 2$)	impact, order, analysis, system	0.1	0.69	0
$q_0.8$	Our Approach($\alpha = 16$)	impact, order, analysis, system	0.1	0.69	0
$q_0.8$	Intuitive Solution	wake, variety, analysis, system	0.1	0.94	8
$q_0.8$	XO-QP (No Dist)	wake, variety, analysis, system	1	0.94	8
$q_0.8$	XO-QP (Dist)	wake, variety, analysis, system	1	0.94	8
$q_0.10$	Our Approach($\alpha = 2$)	whole, study, analysis, system	0.1	0.24	0
$q_0.10$	Our Approach($\alpha = 16$)	intruder, hunt, analysis, system	0.1	1	8
$q_0.10$	Intuitive Solution	intruder, hunt, analysis, system	0.1	1	8
$q_0.10$	XO-QP (No Dist)	intruder, lookup, analysis, system	0.3	1	8
$q_0.10$	XO-QP (Dist)	intruder, lookup, analysis, system	0.3	1	8
$q_0.11$	Our Approach($\alpha = 2$)	gesture, testing, system	0.1	0.72	0
$q_0.11$	Our Approach($\alpha = 16$)	gesture, testing, system	0.1	0.72	0
$q_0.11$	Intuitive Solution	hint, testing, system	0.1	0.9	6
$q_0.11$	XO-QP (No Dist)	hint, search, system	0.7	0.9	6
$q_0.11$	XO-QP (Dist)	hint, search, system	0.7	0.9	6