

Query ID	Optimization method	Before Optimization (ms)	After Optimization (ms)
Q1	Add year, month and day columns to tweet table. Created indexes for each. Altered the query to use the new attributes	55.4	34.2
Q3	Query now uses the index created for Q1	452	160
Q6	Created index on hname of hashtag. Used inner join instead of a where clause in the inner statement. Changed query to use "in" clause instead of the find_in_set function	24.9	0.7
Q9	Created index on sub_category	24	.6
Q10	Used index tweetDate on tweet	17.5	14.8
Q11	Created index on state	1.8	.73
Q15	Directly select from the tweet, user and url instead of using join the inner tweets	239	193.79
Q18	By creating a full index on the primary key	409	291.25
Q23	Inner joining the tweet on the hashtag and the user table	276.9	264.32

Buffer Pool Size: .125 GBytes