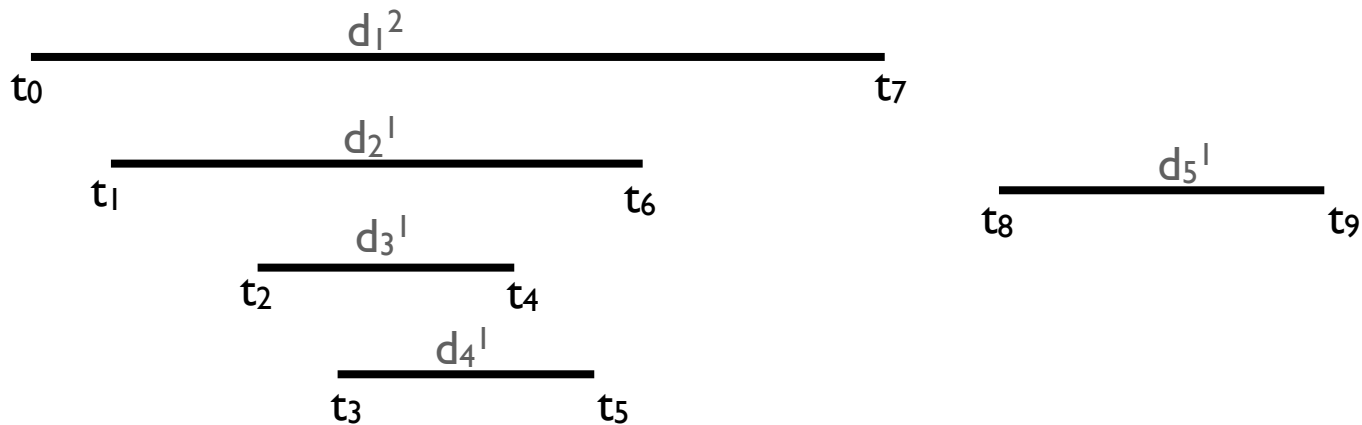


intervals in
shard



Impact List	
$[t_0 - t_7)$	
$[t_7 - t_9)$	
query begin-time	shard offset

Posting list for
shard

$\langle d_1^2, [t_0 - t_7) \rangle$
 $\langle d_2^1, [t_1 - t_6) \rangle$
 $\langle d_3^1, [t_2 - t_4) \rangle$
 $\langle d_4^1, [t_3 - t_5) \rangle$
 $\langle d_5^1, [t_8 - t_9) \rangle$