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August 18, 2016

Dear Editor-in-Chief:

An earlier version of this submission was published in Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM'12). This version to be submitted to IEICE Transactions on Information and Systems includes the following substantial extensions.

- Expanded Algorithms: we expand the description of the pre-processing, initial and optimized phase algorithms shortened in the earlier version. Furthermore, this submission contains three additional algorithms as follows:
 - splitting overlapping ranges in Algorithm 2 on page 4,
 - checking the allowed field count limit on the split ranges on in Section 2.1.4 on page 5,
 - computing scan cost in Algorithm 3 on page 6, and
 - computing query cost in Algorithm 5 on page 7.
- Complexity Analysis: we conduct the asymptotic running time analysis on each phase in Section 3 on page 8.
- Experiments: we provide additional runtime statistics on the workloads used in the experiments in Table 1 on page 10. In addition, we compare the quality of a human expert's recommendation with that of our wizard in Figure 5 on page 10.
- Expanded Literature Review: the related work section on page 9 elaborates in detail on the similarities and differences between our wizard and existing tools.

Sincerely yours,

Young-Kyoon Suh