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Bachelor degree thesis assessment

Student name: **Michal Stanke**
Thesis Title: **Fulltext search in HBase database**

During the last semester, I had a pleasure to supervise the bachelor thesis of Michal Stanke, entiteled "Fulltext search in HBase database". I was assited by ing. Tomas Dvorak, who performed the duties of the consultant and provided the student with additional support and feedback.

The thesis has been oriented towards the exploaration of options of full-text search in HBASE and similar databases not based on traditional SQL engines. Michal's work included database and environment setup, preparation of test dataset, integration of existing solutions and preparation of a specialized indexing solution geared towards very high search performance, coming at expense of large indexing overhead. last, but not least, the work involved extensive experimental evaluation and benchmarking of the options.

Michal has shown that he is capable of performing the professional dutios of an engineer at bachelor level of training. He has been able to understand a reasonably complex technical problem, deal with the issues related to setup and optimization of third-party solutions. He has also implemented an alternative indexing method. This method has outperformed the traditional solutions at high-query-throughput part of the spectrum.

On the downside, Michal should have been more careful in his writeup and in structuring of his thesis. Some formulations are non-traditional w.r.t. English grammar use and, in some chapters, slightly problematic structure of sections and content. Despite these minor shortcommings, the student has clearly delivered a result that merits to be graded as Excelent - A.

In Amsterdam, on June 15, 2015

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