



## I. IDENTIFICATION DATA

<b>Thesis title:</b>	<b>Evaluation of Query Expressions in Relational Algebra</b>
<b>Author's name:</b>	<b>Lukáš Kotlík</b>
<b>Type of thesis :</b>	bachelor
<b>Faculty/Institute:</b>	Faculty of Electrical Engineering (FEE)
<b>Department:</b>	<b>Department of Computer Science</b>
<b>Thesis reviewer:</b>	<b>Ing. Jana Ahmad</b>
<b>Reviewer's department:</b>	<b>Department of Computer Science</b>

## II. EVALUATION OF INDIVIDUAL CRITERIA

<b>Assignment</b>	<b>ordinarily challenging</b>
<i>How demanding was the assigned project?</i>	
The goal of this thesis is to design and implement an application for the evaluation of relational algebra query expressions that also could also help for teaching purposes and cove what is missing in existing tool. Based on the assignments and the pervious existing solutions, I find it ordinarily challenging for bachelor's thesis	

<b>Fulfilment of assignment</b>	<b>fulfilled</b>
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
The thesis fulfils the requirements that are needed to achieve the final goal of the project	

<b>Methodology</b>	<b>correct</b>
<i>Comment on the correctness of the approach and/or the solution methods.</i>	
The student follows a good methodology in order to fulfil all the task requirements. Where, he analyzed existing solutions and propose the application specification. Also, he created programming and user documentation and perform application testing.	

<b>Technical level</b>	<b>B - very good.</b>
<i>Is the thesis technically sound? How well did the student employ expertise in the field of his/her field of study? Does the student explain clearly what he/she has done?</i>	
Because the student follows a good methodology, the thesis technically is sound. He clarifies clearly the techniques, requirements and what his did to achieve the thesis goal. Bur, he should explain more how he specified the requirements and categorize them, e.g., what is the functional requirements.	

<b>Formal and language level, scope of thesis</b>	<b>B - very good.</b>
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
Th thesis is structured in a clear and logical way. The students started his thesis by explaining his goal and topic, then he compared the existing works, in this point, I prefer if he could clarify or explain more how his application different from the existing ones. Then, he discussed the requirements, specification and implantation of his project.	

<b>Selection of sources, citation correctness</b>	<b>B - very good.</b>
<i>Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?</i>	
The references are adequate in most sections. Relational Algebra sections needs more citation mainly about relational algebra versions.	

<b>Additional commentary and evaluation (optional)</b>
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*Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.*

Please insert your comments here.

### III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

*In this bachelor thesis, the student designed and implemented a web application that serves as a tool for easing its learning. The application evaluates relational algebra query expressions over small sample datasets that can be edited directly in the application. The thesis provides a very useful solution and application in relational database. The writing and technical qualities of the thesis are very good.*

Question to students:

- *Your tool can be used for teaching purpose. Could you explain how?*
- *Why we can't use existing tool for teaching purpose, e.g., assignments evaluation*
- *It should support Czech Language. Why it is a requirement for tool not just a feature? and how you specify the requirements.*
- *How was the evaluation of the web application done?*

The grade that I award for the thesis is **B - very good**.

Date: **31.5.2021**

Signature:  
*Jana.A*