EXTERNAL EXAMINER´S REPORT ON DIPLOMA THESIS

Name and Surname of Diploma Thesis Writer: Manomeet Gupta

Topic of Diploma Thesis: Business Intelligence Tools for Supporting Core Web Activities in a Small Company

Name and Surname of Supervisor: Ing. Athanasios Podaras, Ph.D.

Name and Surname of External Examiner: Ing. Martin Papík, Ph.D.

External Examiner: - name of a company: Hewlett-Packard

   - position: Technical Consultant HPC
   - email address/phone number: martin.papik@hpe.com

	Excellent	Very good	Good	Failed
I. Assessment of the thesis topic and its writing:				
Thesis topic completion	X			
Application of implemented methods	X			
Analysis performed and its profundity	X			
II. Assessment of thesis content and structure:				
Clarity and coherence of thesis	X			
Currency of the topic, appropriate sources	X			
Processing of sources and acquired data		X		
Comprehensible and adequate conclusions	X			
Phrasing of writer´s points of view	X			
III. Assessment of thesis style:				
Formal layout of thesis (i.e. text, tables, graphs)	X			
Style of thesis (i.e. use of formal language)	X			
Application of academic sources in native language, including bibliographic references and citations		X		
Application of academic sources of foreign authors, including bibliographic references and citations	X			

The evaluation for the diploma thesis in terms of meeting the thesis objectives, the application of implemented methods as well as suggestions for measures taken including formal layout shall be stated in written (see the following page).

Review:
I like this diploma thesis because I see that this candidate really invested own time into practical part which is nice demonstration of theoretical principles.
Student describe in first theoretical part of its word different technologies used for BI, OLAP and analysis tools like UML. He is also describing conventional relation DB model especially E-R diagram and DB normalization rules. The is also light description of object oriented DB models. Continues with data warehouse description and data mining.
The second practical part of diploma thesis is using for probably "real" company case what is positive. Student is providing good analyses for new reservation IS with conceptual, logical and physical models – diagrams (all these diagrams - pictures are student own contributions). I really appreciate this analysis part.
Student used for SQL queries demonstration MS Access DB engine what is acceptable, but MySQL

DB, MariaDB or PostgreSQ L DB will be better for this purpose and it will look more professional. I don't see is as critical issue for this work.

Student is also using for next description of new model flowchart and BPMN diagrams and this look nice and it is useful for this case. In final phase student is showing results in form of OLAP outputs. I expected bigger input real data for this analyses but data which are used are sufficient for this demonstration (we also have to consider COVID19 complications in 2020, especially for restaurant-food businesses).

There is definitely a lot of possibilities for future work on this topic. The practical second part is strong in analysis methods used and own diagrams. The theoretical part is also describing all required technologies - methods used later in practical part.

Student is using citations in text and for pictures-figures in right way. The list of literature is available in the end.

Questions and comments related to the diploma thesis defence:
Do you know something about in-memory databases? What are the biggest pluses (advantage's) of these technologies?

What DB product will you choose for real life implementation of this thesis (exclude MS Access)? And why?

I recommend the diploma thesis for defence.
(*delete if not applicable)

Grade for the diploma thesis: Excellent

Date

14.8.2020
Signature of thesis external examiner