LUNDS UNIVERSITET
Lunds Tekniska Högskola

Optimizing business intelligence extraction speed from an ERP-system's database

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Project plan

Master Thesis in Computer Science

Preliminary dates: 20/1/2015 — 9/6/2015

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January 23, 2015

Introduction

This documents purpose is to create a general project plan for the Master thesis's different parts. In this document the thesis's parts/tasks will be states as well as the approximate time for completion of the tasks. To ensure that the work doesn't differentiate to much from the project plan, milestones and follow ups are created and work as guidelines.

Goal

PerfectIt BeX AB wants the process behind generating these reports analysed and optimised to improve the speed of the generation and lessen the demands it puts on the system.

Overall objectives and issues/research questions

The current processes behind generation of the BI-reports must be identified and mapped. This mapping will be analysed for bottle-necks and inefficiencies. Research will be performed to learn of approaches to solve the problems identified in the analysis. The research will consider as many options as possible to find a long-term solution. These approaches will be analysed to decide which of them are a best fit and should be used to reach the goal. This will then be implemented in BeX Online and a final analysis should be performed to determine if the goal was met. It is important that the new solution does not affect the front-end interface of the system.

Stakeholders

Stakeholder	Name	Mail
Thesis students	Max Åberg & Alexander Söderberg	see frontpage
University supervisor	Alma Orucevic Alagic	alma@cs.lth.se
Workplace supervisor	Lennart Söderberg	lennart@perfectit.se
Technical supervisor	Niklas Lindgren	niklas@perfictit.se
Examiner	Per Andersson	per.andersson@cs.lth.se

Table 1: Thesis stakeholders

Role description

The university supervisor will aid in guiding and maintaining the thesis's focus and goals. The workplace supervisor controls and aids with administrative issues. The technical supervisor aids in all technical support and issues. The examiner reviews the final draft of the thesis.

Result list

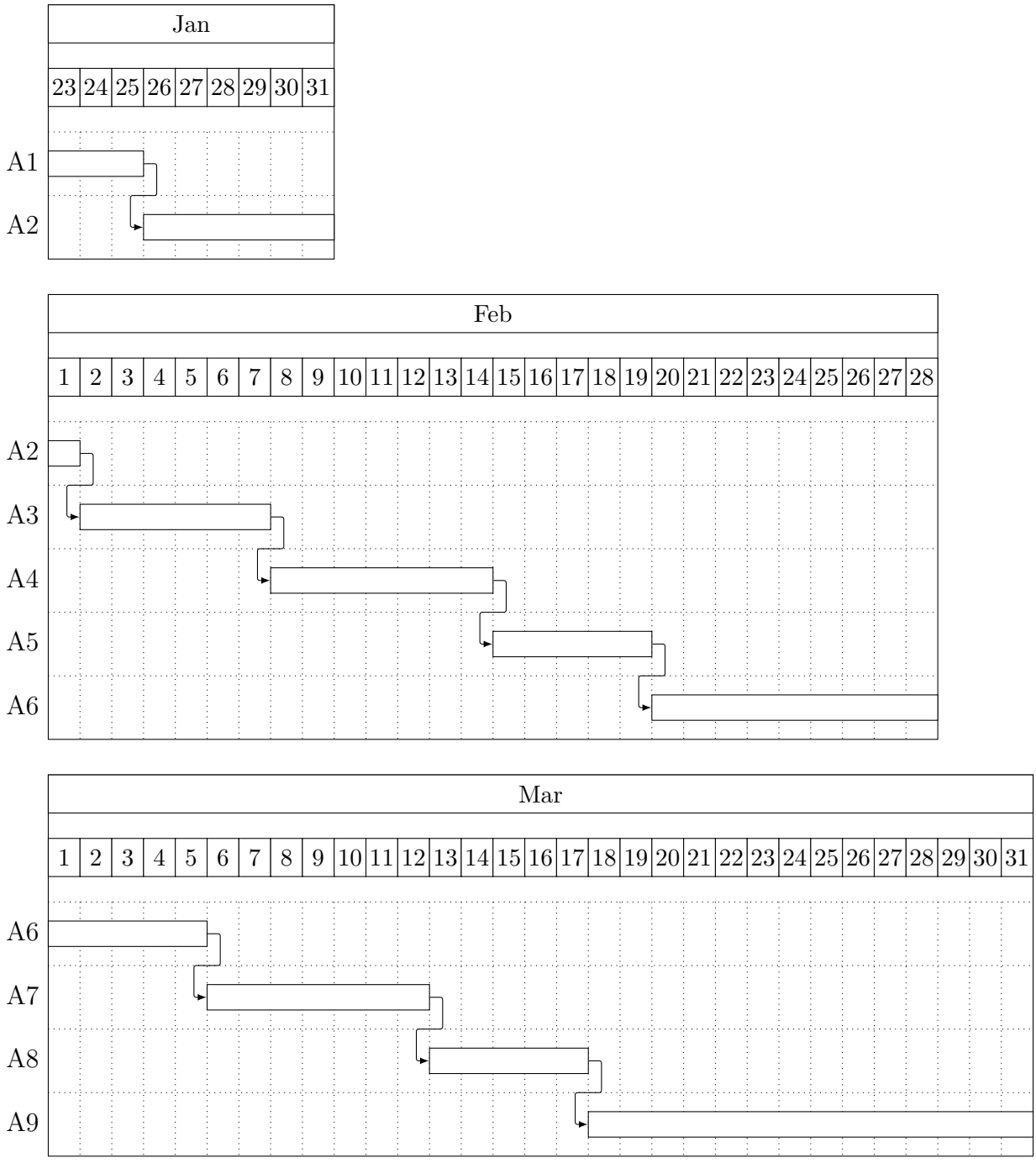
- Database Description
- Literature and Research
- Solutions
- Solution Software Requirements Specification
- Implementation
- Testing & Validation
- Result
- Discussion

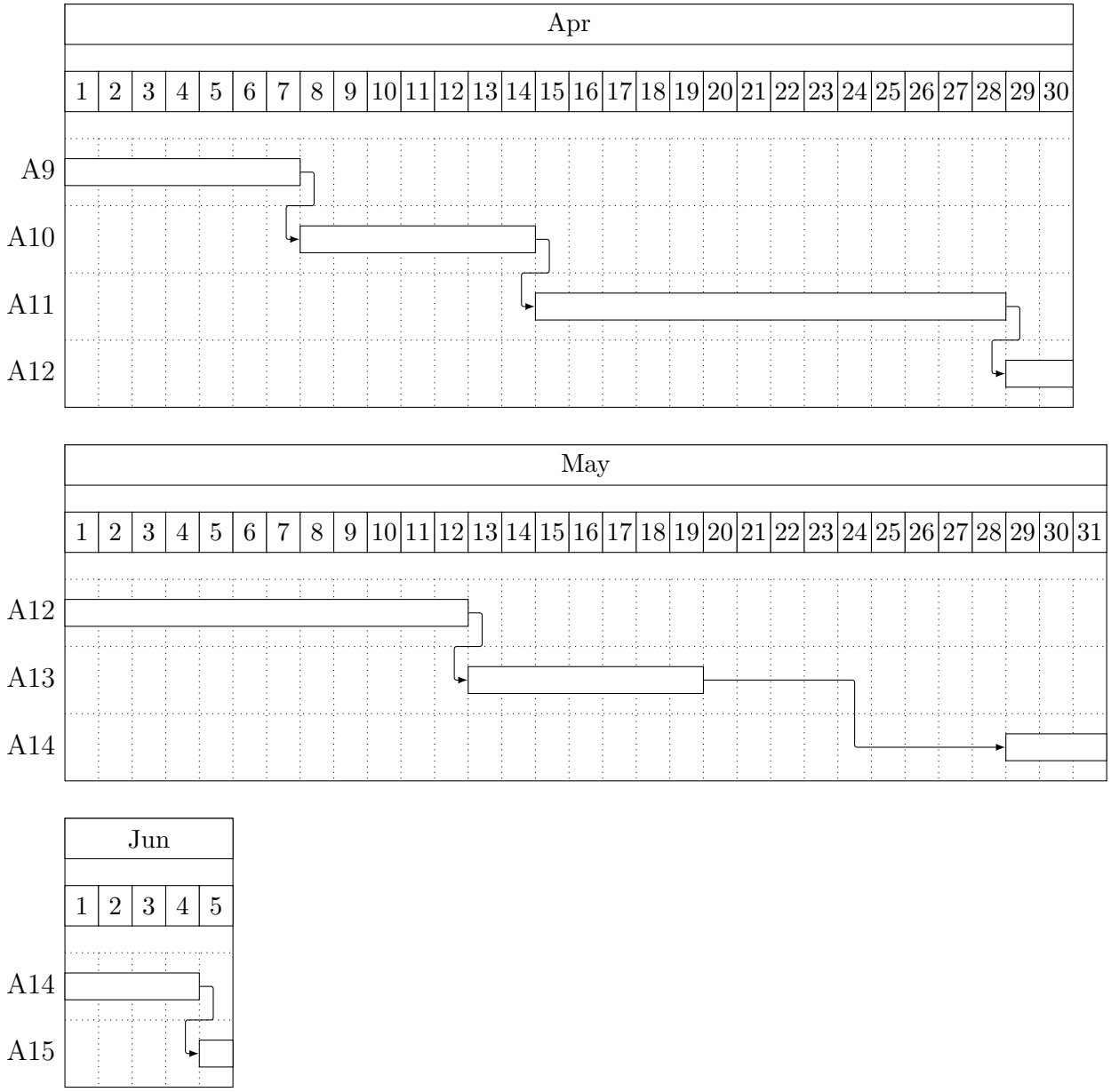
Activity breakdown

#	**Activities**	**Time**	**Dependent on**
A1	Setting up environment	3 days	
A2	Database analysis and Benchmarking	7 days	A1
A3	Database description	7 days	A2
A4	Literature research	7 days	A3
A5	Literature summary	5 days	A4
A6	Possible solutions	14 days	A5
A7	Solution analysis	7 days	A6
A8	Solution SRS	5 days	A7
A9	Solution implementation	21 days	A8
A10	Testing and Validation	7 days	A9
A11	Result and Benchmarking	14 days	A10
A12	Discussion	14 days	A11
A13	Reviewing and improvements	7 days	A12
A14	Presentation and opposition preparations	7 days	A13
A15	Presentation	1 day	A14

Table 2: Example of activities

Time schedule





Follow up

Follow up will have the following activities.

- Regular meetings with the university supervisor will be done to obtain guidance and help with avoiding common pitfalls.
- Meetings with the workplace supervisor will be done to help with maintaining the correct focus and scope in the thesis.
- Sporadic meetings with the technical supervisor will be done to help with technical issues or specific questions about the architecture of the system.