

BELEIDSINFORMATICA EN OPERATIONEEL BEHEER

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Experiment merging event logs

In this experiment we ask you to merge two event logs using a ProM plug-in and to afterwards answer the questions in attachment.

We would appreciate if you work accurately and provide an honest answer to the questions.

Case description

The even log *Sales Order* was extracted from the accounting software and contains activities at the level of a sales order. The possible activities in this process are displayed below.

- 'creation': contains data about the creation of the order (date, customer, delivery address and currency)
- 'shipment': contains extra data about delivery (date and logistical partner)
- 'sent invoice': contains data about sent invoices (date and invoice address)
- 'invoice paid': contains the date the invoice was paid

In principle, these activities can only occur once per process execution, but we cannot guarantee that the file does not contain errors.

The event log *Sales Order Lines* was extracted from the software in the warehouse and contains information about ordered products. The information that the log contains is displayed below.

- 'creation': contains data about the creation of a specific article order (article, price, amount, order number, date)
- 'modification': contains data about the modification of article orders (new price and /or amount, date of change)
- 'price calculation': contains the date the total price was calculated

In principle, each product order should first be created; afterwards it can be changed, but this is not mandatory; and finally the total price is calculated. There should be no changes after the total price is calculated. We cannot guarantee that the file does not contain errors.

Exercise description

The assignment is to merge both event logs based on the description of a ProM plug-in below and to generate a process model using Heuristics Miner. Examine the process model to be able to critically analyze the merge. If you have any concerns about the merge, write it down in the appropriate box on the question sheet.

Thanks for your cooperation!

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The plug-in is called **Merge two Event Logs using a rule based algorithm** and requires two event logs as input. When you start the plug-in, ProM will ask you to configure the following information.







Questions

I experienced the following problems while trying to use the plug-in:

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Q1. I found the procedure for applying the method complex and difficult to follow		0	0	0	0
Q2. I believe that this method would reduce the effort required to merge event logs	0	0	0	0	0
Q3. Merging event logs using this method would be more difficult for users to understand	0	0	0	0	0
Q4. Overall, I found the method difficult to use	0	0	0	0	0
Q5. This method would make it easier for users to bring together process mining data of different sources	0	0	0	0	0
Q6. I found the method easy to learn	0	0	0	0	0
Q7. Overall, I found the method to be useful	0	0	0	0	0
Q8. Using this method would make it more difficult to decide which data should be used to determine how both event logs should be merged	0	0	0	0	0
Q9. I found it difficult to apply the method to the example data	0	0	0	0	0
Q10. I would definitely not use this method to merge event logs for process mining	0	0	0	0	0
Q11. I found the rules of the method clear and easy to understand	0	0	0	0	0
Q12. Overall, I think this method does not provide an effective solution to the problem of merging event logs	0	0	0	0	0
Q13. Using this method would make it easier to merge event logs quickly	0	0	0	0	0
Q14. I am not confident that I am now competent to apply this method in practice	0	0	0	0	0
Q15. Overall, I think this method is an improvement to the process mining tool set	0	0	0	0	0
Q16. I intend to use this plug-in in preference to other techniques I know for merging event logs (e.g., using Excel functions)	0	0	0	0	0