MTAT.03.231 – Business Process Management

Homework 5 (HW5) – Mining (5 points)

Due on 01.06 at 23:59
Complete the homework individually or in groups of 2 students.

The goal of this assignment is to analyze the logs provided on the course website. **Describe in detail the procedure you follow (using Disco and/or Apromore) to answer the questions. Direct answers without explanations will not taken into consideration.**

Part 1.

Your task is to analyze the following log using process mining techniques:


1. Provide the following statistics about the log: - How many cases are contained in the log? - How many variants? - How many events? - How many distinct activities? - What is the first date recorded in the log? - What is the last date recorded in the log? - What is the mean case duration?
2. What is the mean cycle time of the set of cases that contain at least one RestartRepair event? What is the mean cycle time of the set of cases where RestartRepair does not occur? What is the mean cycle time for cases where a complex repair is performed? What is the mean cycle time for those cases where only a simple repair is performed?
3. A case is considered to be completed when activity ArchiveRepair is performed (no other activities can occur afterwards). How many cases in this log are incomplete?
4. Can you say which resources execute simple repairs? And which resources execute complex repairs?

Part 2.