2II66 Assignment 3 – Robbert Jongeling

## Introducion:

We consider an event log from the Isala hospital. The log contains events for four different locations of the hospital. These are Vlinder (V), Diagnosis (D), OC Heerde (H) and OC Kampen (K). We investigate the processes in the hospitals before and after the *bucky room* modality. This event is concerned with taken x-ray pictures.

## 1: Can you discover *per location* what is the process *before* visit of the modality?

### V:

### D:

### H:

### K:

## 2: Can you discover per location what is the process *after* visit of the modality?

### V:

### D:

### H:

### K:

## 3: Can you indicate *per location* what are the top 3 of bottlenecks within the process *before* visit of the modality?

### V:

### D:

### H:

### K:

## 4: Can you indicate *per location* what are the top 3 of bottlenecks within the process *after* visit of the modality?

### V:

### D:

### H:

### K:

## *Before* the visit to the modality, can you indicate whether the processes of the 4 locations are comparable to each other?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Model (V) | Model (D) | Model (H) | Model (K) |
| Log (V) | 0.962 | 0.256 | 0.323 | 0.354 |
| Log (D) | 0.053 | 0.988 | 0.079 | 0.099 |
| Log (H) | 0.210 | 0.215 | 1 | 0.244 |
| Log (K) | 0.127 | 0.131 | 0.133 | 0.982 |

Table : fitness of logs when replayed on model for processes before visiting modality

## *After* the visit to the modality, can you indicate whether the processes of the 4 locations are comparable to each other?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Model (V) | Model (D) | Model (H) | Model (K) |
| Log (V) | 0.971 | 0.289 | 0.167 | 0.326 |
| Log (D) | 0.173 | 0.948 | 0.089 | 0.169 |
| Log (H) | 0.274 | 0.204 | 0.848 | 0.273 |
| Log (K) | 0.193 | 0.166 | 0.078 | 0.934 |