

*Software Measurement. SOEN 6611 2014/4 D*

*Dr. Peter Rigby*

**Assignment 2 – Part 1**

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| **Team members information (in no particular order)** | |
| **Name** | **SID** |
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# Questions

The following is a set of questions that we would like to explore.

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| **Question 1.** | How does having CCed\*1 developers affect how quickly issues are resolved? |
| **Outcome** | Length of issue resolution time. |
| **Direct measure(s)** | Number of issues with CCed developers  Number of issues without any CCed developers  Delta between report date and close date |
| **Confounding factor(s)** | Assignment of issue to a senior member who’s familiar with the area of the issue would lower the importance of collaboration. |
| **Hypothesis** | Collaboration reduces issue resolution time. |

**Extracting Attributes**

The extracted attributes for phase 2 are as below:

**CC**: we extract the number of people in CC for each issue to analyze if more people in CC results quicker issue resolution.

**Report date**: the data the issue is reported.

**Close date**: the data the issue is closed.

**Status**: this is the status of the issue which can be one of the below values:

1. Invalid
2. Verified
3. Fixed
4. Assigned
5. Duplicate
6. WontFix
7. Available
8. IceBox
9. Untriaged
10. Started
11. Unconfirmed
12. ExternalDependency
13. Archived

**Id**: the ID attributes is a unique value.

**Linking Attributes**

In this stage we store all the extracted attributes in the database and by running different queries on the data we get interesting reports. As an example by analyzing the data on a subset of the data, we can conclude that more developers CCed could reduce issue resolution time.

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| No. of CCed developers | Avg. of issue resolution time (days) |
| 1 Cc | 265 |
| 2 Cc | 94 |
| 3 Cc | 40 |
| 4 Cc | 26 |