

Analysing Email Reference Transactions in a Legal Library

Nicholas Lobraico



Presentation Outline

- 1. Introduction**
- 2. Project Overview & Outline**
- 3. Major Challenges**

Introduction

1. Who am I?

- Recent graduate of MIST programme at McGill's School of Information Studies
- Interest in academic & research libraries, text analysis, data mining
- Background in humanities, philosophy and political science

2. What are we talking about?

- Practicum project (Jan. - April, 2023)
- Davies Ward Phillips & Vineberg (Montreal)
- Email transactions of legal librarians

3. What will you takeaway?

- General understanding of the project, how it worked, who might be suitable for it, what to expect
- A sense of the major challenges faced
- A template for you to implement this sort of project in your own library

Overview of Project

- Davies Ward Phillips & Vineberg :
 - Large legal firm with over 200 lawyers
 - Offices in Toronto, Montreal and new York
 - Montreal office across the street from McGill University
 - Montreal library consists of 4 team members, two of whom focus on research
- *"The aim of this project is to provide an assessment of the reference services provided by the library at the Montreal office of Davies Ward Phillips & Vineberg"*

Project Outline



**Determine
Scope**



Export emails



Clean Dataset



**Develop &
Apply
Transaction
Categories**



**Deliver Final
Analysis**



Determine Scope

- **How many email transactions can we expect to analyse?**
 - 100 hours
 - All emails from Jan. 2022 - present (roughly 1 year)
 - Roughly 4,000 emails
- **Which emails are most interesting / important?**
 - Prioritize research questions over known item and other more routine transactions (eg., press reviews, access issues)
- **What is the purpose of the analysis?**
 - Making an argument for the need of a email ticketing system similar to those used by IT departments

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Export emails

- 4 mail boxes of interest (1 general, 3 personal)
- Microsoft environment : Outlook, Mimecast, Excel
 - Export directly from Outlook into Excel

Challenges:

- Email body often cut short in Excel
- Organizing inboxes in separate tabs
- Determining un-needed fields (ex. HasAttachments)

Folder | Sent | From | Date Sent | In Copy | Sent To | Subject | Preview | ID | Category | Notes

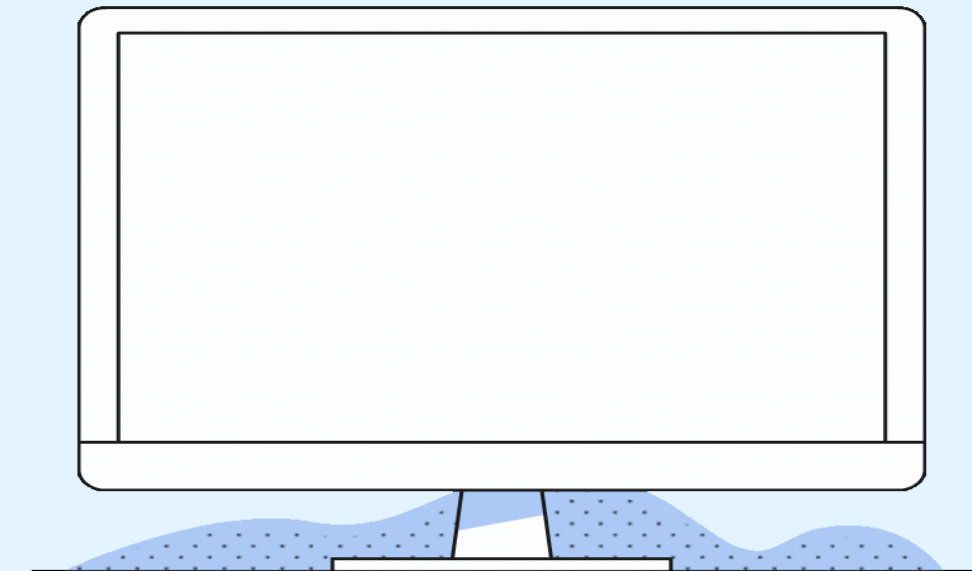
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Clean Dataset

- 3957 > 1212 records
- Removing irrelevant transactions (duplicates, press review, etc.)

Challenges:

- Rich-textual data
 - multi-lingual
 - processing time (eg. find & replace)
- Duplicates (within and between mailboxes)
- How to delineate the reference transaction?
 - Cascading questions
 - Complex email chains
 - Unclear questions





Develop & Apply Transaction Categories

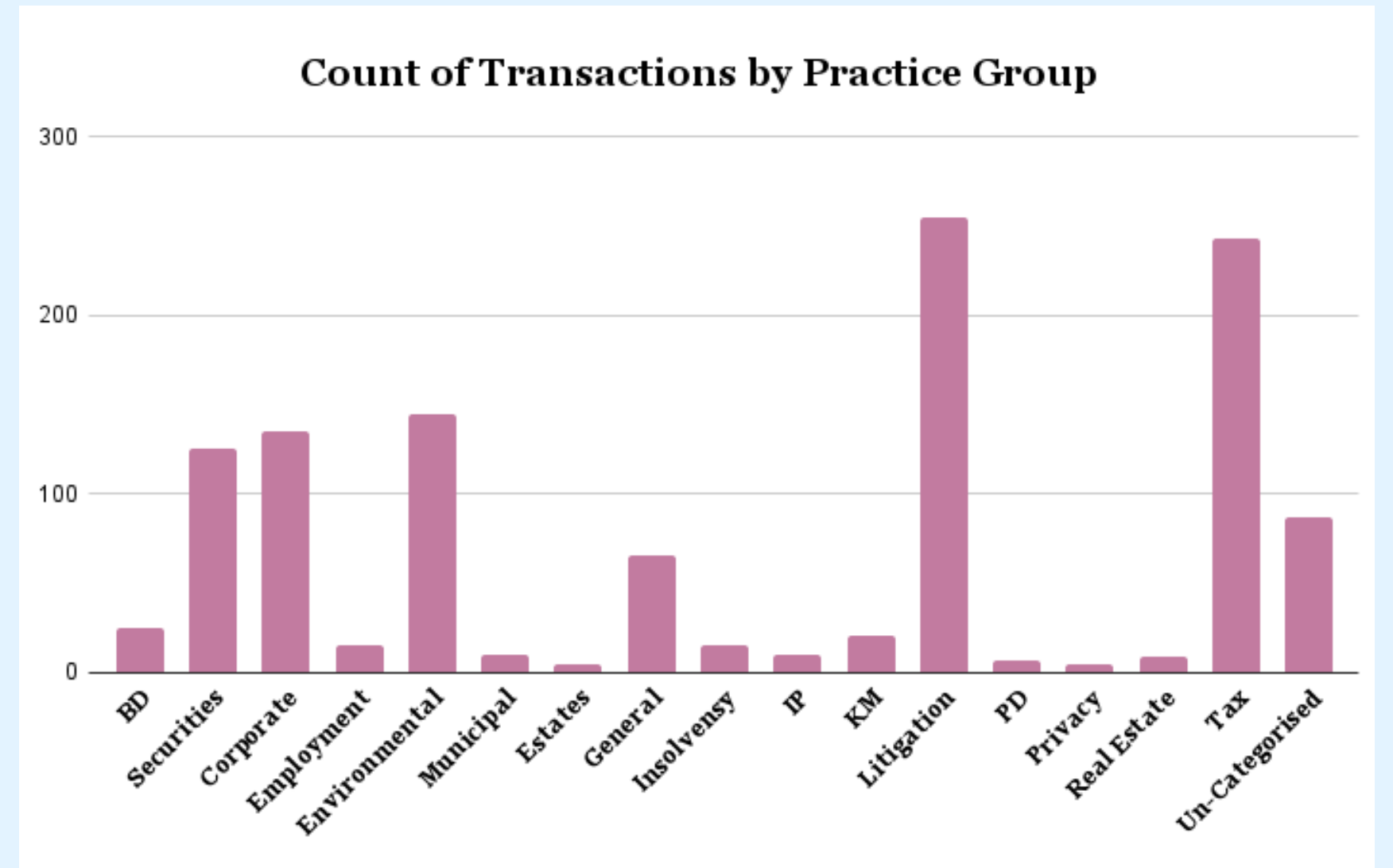
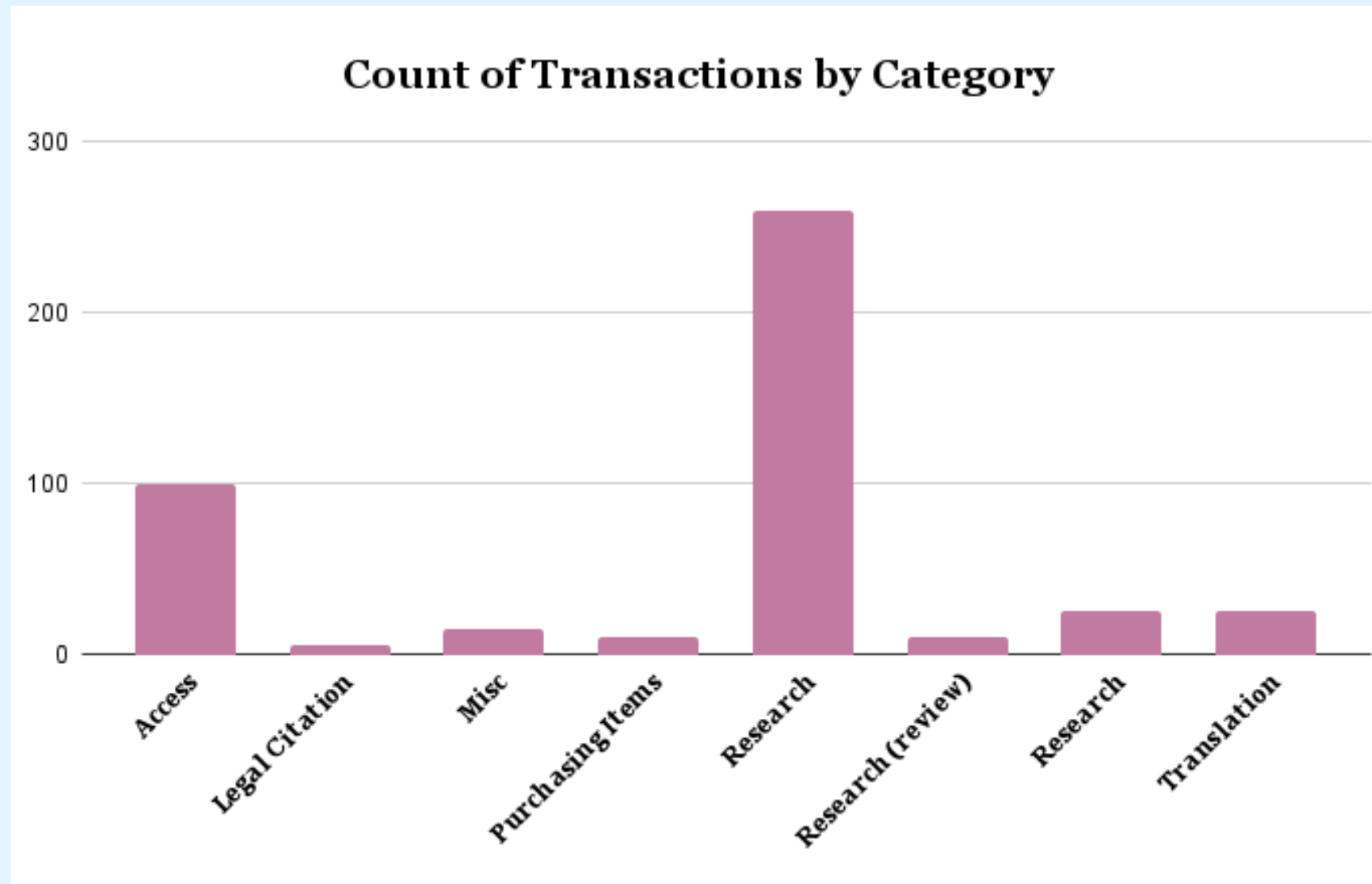
- How to define transaction categories?
 - Origin of question (practice group)
 - Team member responding
 - Question topic (annotation, doctrine, noting up)
 - Question type (access, research, known item)
 - READ Scale

Challenges:

- Transactions involving multiple persons / practice groups
- More granularity leads to less insight (sub-categories)

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Deliver Analysis

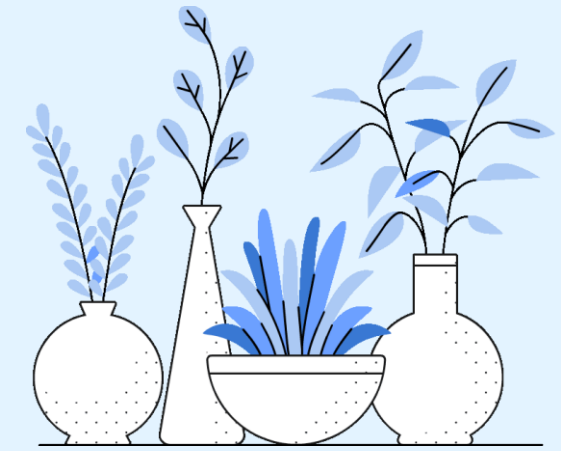


Disclaimer : transactions can belong to multiple categories & practice groups, some transactions are represented more than once

Review of Major Challenges

- Email body often cut short in Excel
 - Means that some transactions had to be read through on Outlook
- Lots of doubles and triples (3957 > 1212 records)
- Rich-textual data poses problems for Excel
 - Slow processing speed, routine crashing
 - Combined with multi-lingual text made parsing tricky
- Delineate the reference transaction is not straight-forward, transactions are more complex than we can represent in Excel

Lessons Learned



- More granularity can lead to less insight
 - The more categories we develop the fewer trends we identify
- Exporting from Outlook to Excel is messy
- Rich textual data is difficult to work with in Excel
- **This type of project is time consuming!**
 - 100 hours to clean 4000 transaction records and categorise & analyse 1212...

Thank

you!