

CS506 Project Meeting Notes

10/3/2023:

Meeting Topic: Project Description and Preliminary Questions

1. What is the project focus/overall goal?

To investigate how BPD budget, with a specific interest in how they register overtime with a focus on, but not limited to, the following topics

- Identifying instances of financial excess in BPD spending
- Characterizing wasteful BPD overtime practices
- Using data to fill in narratives around waste & misconduct by individual BPD officers

2. Why is this project important?

The city of Boston has a large spending budget of \$400 million thus it is important to analyze how this money is being spent. Audits are also important to moderate the power imbalance between the police and the community.

3. What type of data will you collect or be analyzing?

- Employee earning report
- Campaign contribution data
- BPD field activity data
- Overtime data

4. What are potential limitations of the project?

Recency of the data available, determining the root of causes for excess spending, Defining 'wasteful financial excess' with limited understanding of how police payroll operates

5. What are your next steps? Divide tasks amongst the team

Plan out data collection/cleaning and form the structure for a potential database, delegating directives to team members

6. Divide Tasks:

- (1) [Employee earnings data \(search police\)](#)
- (2) [Campaign contribution data](#)
- (3) [BPD field activity data](#)
- (4) [Overtime data from 2012-2022](#)

Dataset preprocessing and analysis

Name	Seunghwan	Ahmad	Ashton	Emily	David
Data Sets	1, 4	1,4	2,3	2,3	3, 4

Discussion Prompts:

Is it inherently political to fund the police more or less?

- Yes, whether people believe the police should be funded more or less inherently becomes a question about politics and society. The views on this topic vary based on political parties as well as the political climate of the world at the time. The following data was from a survey of American Adults in June of 2020:
 - A majority of Republicans and independents who lean to the Republican Party (61%) say spending on police should be increased, with 29% saying it should be increased a lot; 5% of Republicans say spending should be decreased, and 33% say it should stay about the same.
 - By contrast, 34% of Democrats and Democratic leaners say police funding should be increased, 25% say it should be decreased and 40% would like to see it stay about the same.
- It seems that the call for defunding the police was more prominent in 2020 than 2021. This could be because of the Black Lives Matter Movement which was very prominent in 2020. This movement called to defund the police in light of police brutality towards black americans.
 - The share of Black adults who say police spending in their area should be decreased has fallen 19 percentage points since last year (from 42% to 23%)
 - Democrats who say funding for local police should be decreased has fallen markedly – from 41% in 2020 to 25% today
 - Source for above data:
 - <https://www.pewresearch.org/short-reads/2021/10/26/growing-share-of-xx-americans-say-they-want-more-spending-on-police-in-their-area/#:~:text=>

[A%20majority%20of%20Republicans%20and,should%20stay%20about%20the%20same.](#)

What place does, or should, police union lobbying have in the discussion around police funding?

- The police unions should definitely have a voice in the conversations surrounding how the police department budget is delegated, but perhaps not as much sway in the final decisions - not as much as “lobbying” would imply there is.

10/10/2023:

Meeting Topic: Beginning to process data and learn Pandas functions

Findings from Datasets [1](#) and [4](#):

- Employee IDs are not given for some people, might have to sort by names
 - Will have to deal with duplicates (potentially two or more people having the same name) if this is the case
- Hours worked and hours paid do not align for some of the data
 - Will have to look into this discrepancy
- 1,507 titles but about half a dozen ranks
 - Need to figure out which ranks are higher
 - Can compare to salaries to see which ranks have higher salaries

Helpful Functions:

- Reading Data:
 - `pd.read_excel('file path')`
 - If data comes from excel sheet
 - `pd.read_csv('file path')`
 - If data from csv
- `df.columns`
 - Gets the columns of the dataset
- `df.isnull().sum()`
 - How much missing data there is
- `plt.hist(df['Column'])`
 - Example:
 - `overtime21['OVERTIME_FREQ'] = overtime21.groupby(['Emp. ID'])['Emp. ID'].count()`
 - `plt.hist(overtime21['OVERTIME_FREQ'])`