LAJC Wage Theft Data - Countplots of Claim Declined & Undetermined

October 15, 2019

```python
In [87]: import pandas as pd
         import numpy as np
         import matplotlib.pyplot as plt
         import seaborn as sns
         from IPython.core.interactiveshell import InteractiveShell
         InteractiveShell.ast_node_interactivity = "all"

         !pip install wordcloud
         from PIL import Image
         from wordcloud import WordCloud, STOPWORDS, ImageColorGenerator
```
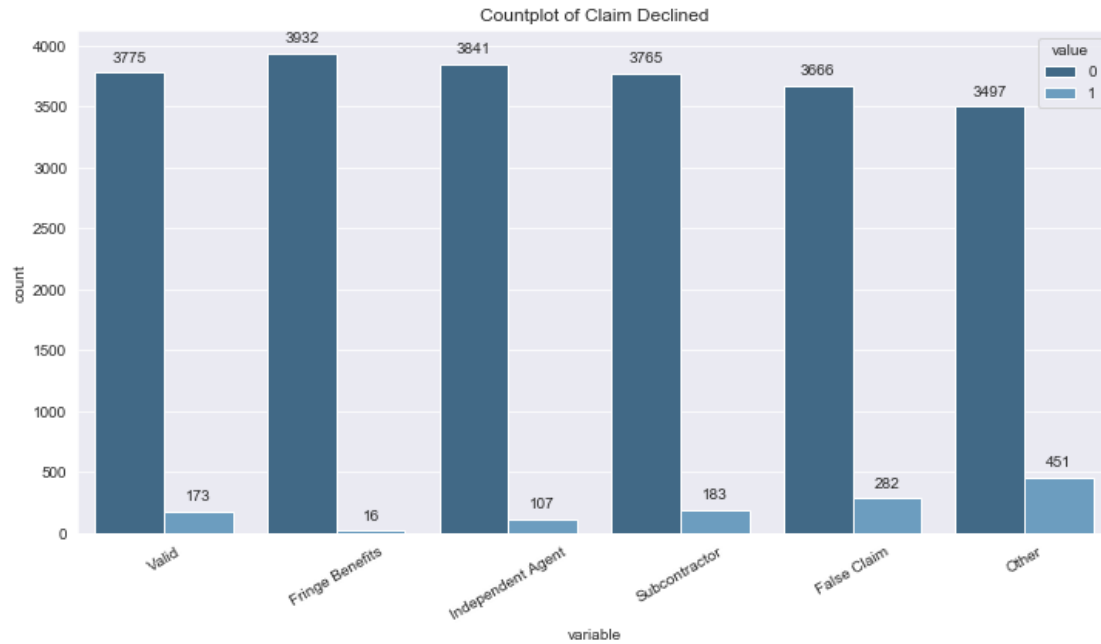
```
Requirement already satisfied: wordcloud in ./anaconda3/lib/python3.7/site-packages (1.5.0)
Requirement already satisfied: pillow in ./anaconda3/lib/python3.7/site-packages (from wordclou
Requirement already satisfied: numpy>=1.6.1 in ./anaconda3/lib/python3.7/site-packages (from wo
```

```python
In [99]: disqualified=df[['Valid', 'Fringe Benefits', 'Independent Agent', 'Subcontractor', 'Fa
```

```python
In [121]: #Creates function for countplot
          def countplot(df, name):
              fig, ax = plt.subplots(figsize=(12, 6))
              sns.set_style("darkgrid")
              sns.countplot(x="variable", hue="value", data=pd.melt(df), ax=ax, palette='Blues_
              ax.set_xticklabels(ax.get_xticklabels(),rotation=30)
              for p in ax.patches:
                  ax.annotate(format(p.get_height(), '.0f'), (p.get_x() + p.get_width() / 2., ;
```

```python
In [141]: countplot(disqualified, 'Countplot of Claim Declined')
```

Countplot of Claim Declined
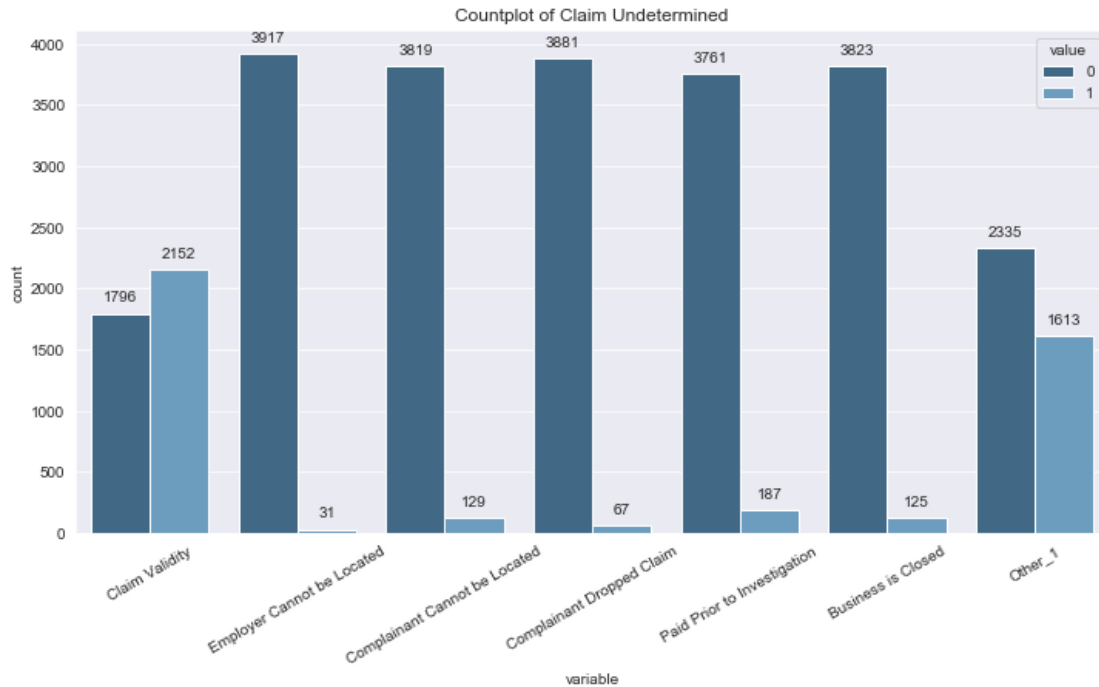
In [123]: *#There's none for 'Employter left State'*
          df['Employer left State'].unique()

Out[123]: array([0])

In [126]: undetermined=df[['Claim Validity', 'Employer Cannot be Located', 'Complainant Cannot
                          'Complainant Dropped Claim', 'Paid Prior to Investigation', 'Busines

In [127]: countplot(undetermined, 'Countplot of Claim Undetermined')

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Countplot of Claim Undetermined

```
In [131]: declined_desc=df['CLAIM INVAL OTHER DESCRIPTION']
          undetermined_desc=df['CLAIM UNDETERMINED OTHER DESCRIPTION']

In [132]: declined_text = str(declined_desc)
          undetermined_text = str(undetermined_desc)

In [134]: declined_text=declined_text.replace('Name: CLAIM INVAL OTHER DESCRIPTION, Length: 394
          undetermined_text=undetermined_text.replace('Name: CLAIM UNDETERMINED OTHER DESCRIPT

In [136]: def wordcloud_text(title, text):
              fig = plt.figure(figsize=(6, 8))
              wordcloud = WordCloud(background_color="white", collocations=False).generate(text
              plt.imshow(wordcloud, interpolation='bilinear')
              plt.axis("off")
              plt.title(title)
              plt.show()

In [140]: wordcloud_text('Declined Other Desc', declined_text)
          wordcloud_text('Undetermined Other Desc', undetermined_text)
```

Declined Other Desc

ESTABLISH VA WORK
RELATIONSHIP NaN
EMPLOYER
EMPLOYEE PERFORMED OUTSIDE

Undetermined Other Desc

INVESTIGATION INCOMPLETE AGREEMENT
STATUTE DOCUMENTATION CLAIMANT
LIMIT INSUFFICIENT
CONFLICTING NaN
CLAIM NEITHER
MEDICAID RECORDS
INCOMPLETE WRITTEN LIMITATIONS
LIMIT FRAUD EMPLOYER