Agency Anomaly Prediction V3

41

- 41 Outlier
- 41 Normal

11

- 11 Outlier
- 11 Normal

17

- 17 Outlier
- 17 Normal

In [105…

```
import sklearn
sklearn.__version__
```

Out[105]:

```
'1.4.2'
```

Prediction

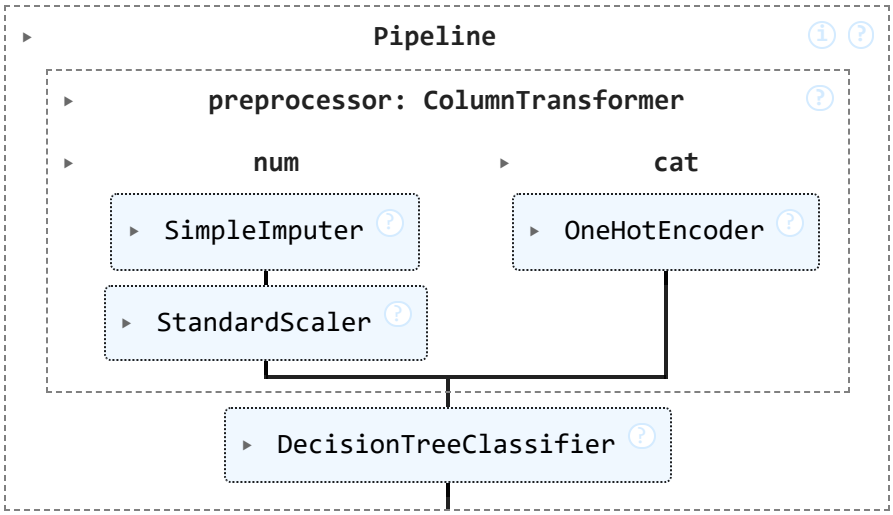
In [106…

```
import pickle
import pandas as pd
import numpy as np

def load_model_file(filename):
    obj = pickle.load(open(filename, 'rb'))
    # print(obj)

    model = obj['model']

    return model
```

In [107…

```
pipeline = load_model_file('agency_outlier_v3.pkl')
pipeline
```

Out[107]:



In [108…
```
olddf = pd.read_csv('./data/grouped.csv')
olddf.drop('date', axis=1, inplace=True)
olddf['status'] = 'old'
# olddf.head()
```

In [109…
```
# tps_df = pd.read_csv('tps-unload.csv')
# tps_df.query("TPMI_TRANS_CD==41")
```

In [110…
```
# tps_df_dec = pd.read_csv('tp-unload-december.csv')
# tps_df_dec.query("TPMI_TRANS_CD==41")
```

In [111…
```
# df = pd.DataFrame({
#     'year': tps_df.TPMI_BLG_YR,
#     'month': tps_df.TPMI_BLG_MM,
#     'tpmi_agncy_cd': tps_df.TPMI_AGNCY_CD,
#     'tpmi_trans_cd': tps_df.TPMI_TRANS_CD.astype(str),
#     'tpmi_trans_count': tps_df.TPMI_TRANS_COUNT,
#      'status': 'new'
# })
# del tps_df
# # df.info()
```

In [113…
```
def get_and_convert(file, status):
    tps_df = pd.read_csv(file)
    print(len(tps_df))

    df = pd.DataFrame({
        'year': tps_df.TPMI_BLG_YR,
        'month': tps_df.TPMI_BLG_MM,
        'tpmi_agncy_cd': tps_df.TPMI_AGNCY_CD,
        'tpmi_trans_cd': tps_df.TPMI_TRANS_CD.astype(str),
        'tpmi_trans_count': tps_df.TPMI_TRANS_COUNT,
         'status': status
    })
    return df
```

In [114…
```
# df.head()
# df.tpmi_trans_cd.unique()
```

In [115…
```
# rec = df.query('tpmi_agncy_cd == "050" and tpmi_trans_cd=="41"')
# rec
```

In [116…
```
combined = pd.concat([
    olddf,
    get_and_convert('./data/tps-unload-november.csv', 'old'),
    get_and_convert('./data/tp-unload-december.csv', 'old'),
    get_and_convert('./data/tps-data-2025-jan.csv', 'new')
]).sort_values(by=['year', 'month']).reset_index(drop=True)
```

```
1169
1165
1194
```

In [117…
```
def extract_features(df):
    df['count_change_pct'] = df.groupby(['tpmi_agncy_cd', 'tpmi_trans_cd']).tpmi_trans
    # df['count_change_pct_pct'] = df.groupby(['tpmi_agncy_cd', 'tpmi_trans_cd']).coun

    df['std'] =  df.groupby(['tpmi_agncy_cd', 'tpmi_trans_cd']).tpmi_trans_count.trans
    df['mean'] =  df.groupby(['tpmi_agncy_cd', 'tpmi_trans_cd']).tpmi_trans_count.trar
    df['max'] =  df.groupby(['tpmi_agncy_cd', 'tpmi_trans_cd']).tpmi_trans_count.trans
    df['min'] =  df.groupby(['tpmi_agncy_cd', 'tpmi_trans_cd']).tpmi_trans_count.trans

    N = 4

    df['last_n_pos'] = df.groupby(['tpmi_agncy_cd', 'tpmi_trans_cd']).count_change_pct
        group.shift(1).rolling(window=N).apply(lambda x: all(x > 0)))
    df['last_n_neg'] = df.groupby(['tpmi_agncy_cd', 'tpmi_trans_cd']).count_change_pct
        group.shift(1).rolling(window=N).apply(lambda x: all(x < 0)))

    # df['std'] = df.groupby(['tpmi_agncy_cd', 'tpmi_trans_cd'])

    df.replace([np.inf, -np.inf], [99999, -99999], inplace=True)


extract_features(combined)
```

In [118…
```
# combined.head()
```

Out[118]:

	tpmi_agncy_cd	tpmi_trans_cd	tpmi_trans_count	tpmi_trans_amt_due	year	month	status	count_c
0	010	11	3483	2260887.5	2020	6	old	
1	010	14	52	123279.4	2020	6	old	
2	010	15	29	0.0	2020	6	old	
3	010	16	1225	266798.0	2020	6	old	
4	010	17	371	196233.8	2020	6	old	

In [145…
```
# combined['outlier'] = 0

# new_df = combined.query('status=="new"').copy()
# new_df['outlier'] = pipeline.predict(new_df)

# combined['outlier'] = [
#     new_df
```

```
# ]


combined['outlier'] = 1

# Filter the rows where status == "new"
new_status_rows = combined.query('status=="new"')

# Predict on the filtered rows
predictions = pipeline.predict(new_status_rows)

# Assign predictions back to the original DataFrame
combined.loc[combined['status'] == "new", 'outlier'] = predictions
```

```
/opt/conda/lib/python3.10/site-packages/sklearn/base.py:493: UserWarning: X does not
have valid feature names, but StandardScaler was fitted with feature names
  warnings.warn(
/opt/conda/lib/python3.10/site-packages/sklearn/preprocessing/_encoders.py:241: UserW
arning: Found unknown categories in columns [0, 1] during transform. These unknown ca
tegories will be encoded as all zeros
  warnings.warn(
/opt/conda/lib/python3.10/site-packages/sklearn/base.py:493: UserWarning: X does not
have valid feature names, but DecisionTreeClassifier was fitted with feature names
  warnings.warn(
```

In [146…

```
combined.head()
```

Out[146]:

	tpmi_agncy_cd	tpmi_trans_cd	tpmi_trans_count	tpmi_trans_amt_due	year	month	status	count_c
0	010	11	3483	2260887.5	2020	6	old	
1	010	14	52	123279.4	2020	6	old	
2	010	15	29	0.0	2020	6	old	
3	010	16	1225	266798.0	2020	6	old	
4	010	17	371	196233.8	2020	6	old	

In [159…

```
import matplotlib.pyplot as plt

marker_dict = {
    1: 'o',
    -1: 'x'
}

def show_outliers(df, code, agencies=None):
    agencies = agencies if agencies is not None else df.tpmi_agncy_cd.unique()
    outlier_col = 'outlier'

    plt.figure(figsize=(12, 2))
    for agency in sorted(agencies):

        for category in df.outlier.unique():
```

```
            # print(category)
            df_subset = df[
                (df[outlier_col] == category)
                & (df['tpmi_agncy_cd'] == agency)
                & (df['tpmi_trans_cd'] == code)
            ].copy()

            if len(df_subset) == 0:
                continue

            marker = 'x' if category == -1 else 'o'
            plt.scatter(df_subset['date'], df_subset['tpmi_trans_count'], marker=marke
#             plt.plot(df_subset['date'], df_subset['tpmi_trans_amt_due'], marker=mark
    plt.title('Transaction Count Trend')
    plt.xlabel('Date')
    plt.ylabel('Transaction Count')
    plt.legend()
    plt.grid(True)
    plt.show()
```

In [160…

```
combined['date'] = (
                pd.to_datetime(
                    combined[['year', 'month']]
                    .assign(day=1)
                )
            )

# combined
```

41

41 - Predicted as Outlier

In [161…

```
# combined.query("tpmi_trans_cd=='41' and tpmi_agncy_cd == '110'")[-5:]
```

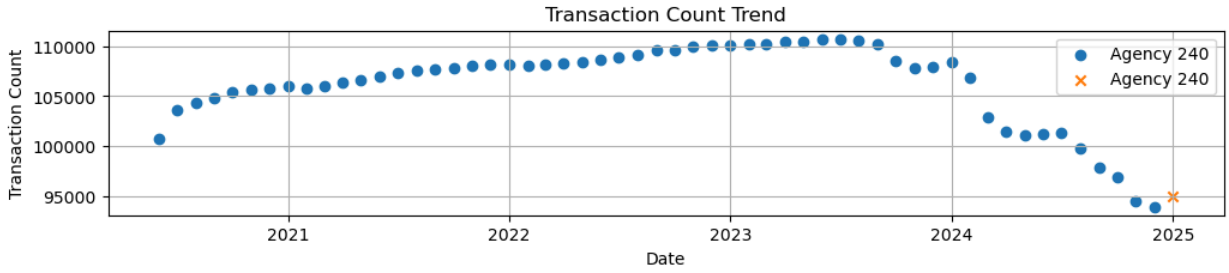
In [173…

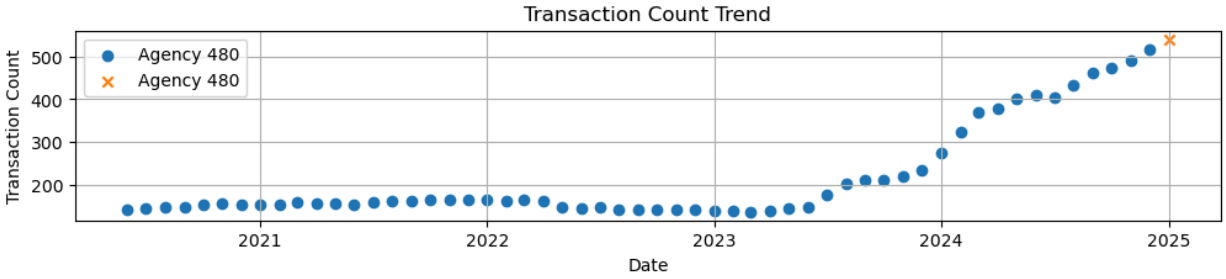
```
outlier_df_41 = combined.query("status=='new' and tpmi_trans_cd=='41' and outlier==-1"
print(' '.join(sorted(outlier_df_41.tpmi_agncy_cd.unique())))
```

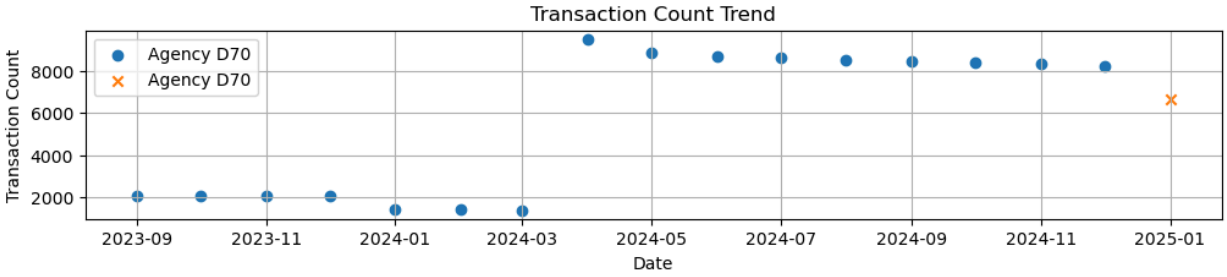
```
240 480 D70 P08 P0F P1C P1F P24 P30 P38 P48 P54 P67 P77 P83 S15 S27 S32 S34 S41 X05 X
51
```

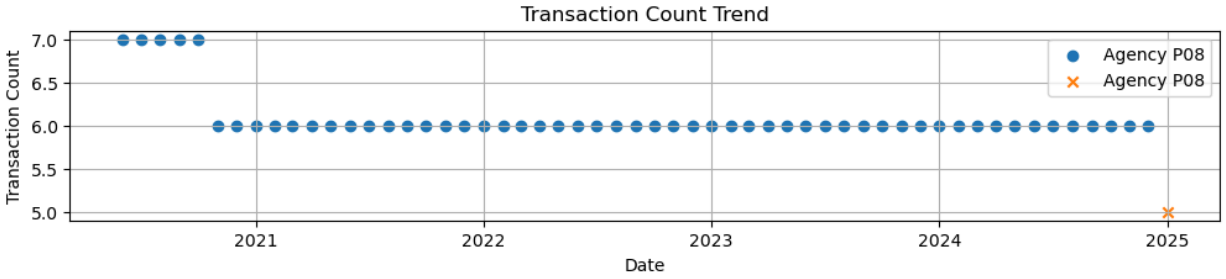
In [174…

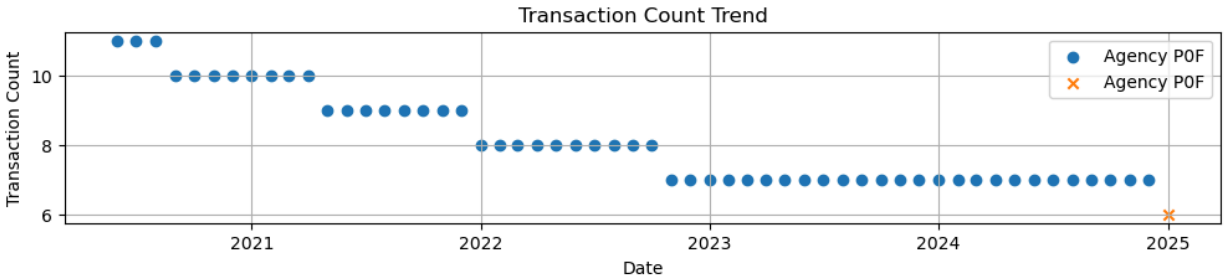
```
for agency in sorted(outlier_df_41.tpmi_agncy_cd.unique()):
    show_outliers(combined, '41', [agency])
```

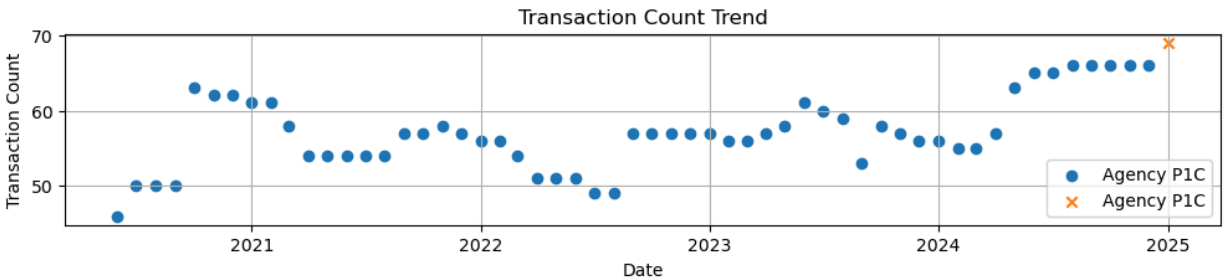


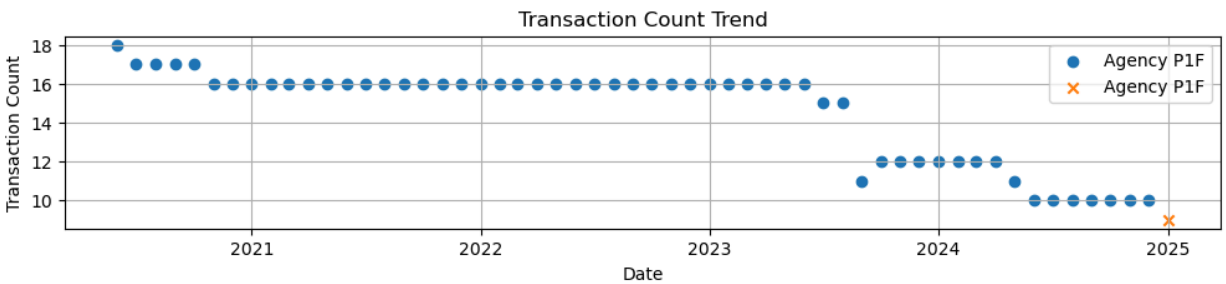

Transaction Count Trend
Agency 480
Agency 480
Transaction Count
500
400
300
200
2021
2022
2023
2024
2025
Date

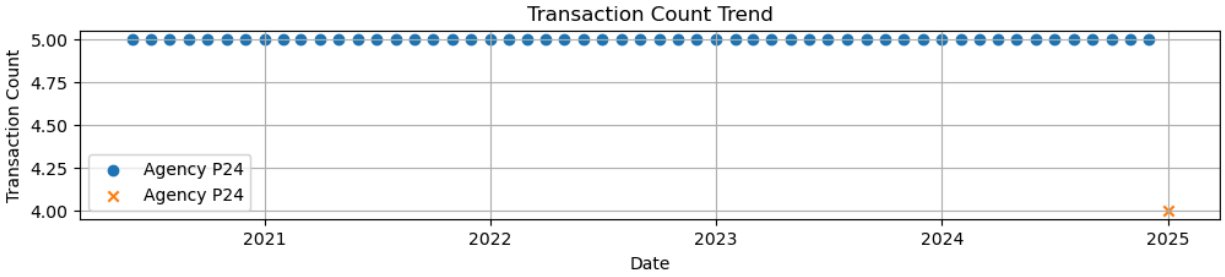

Transaction Count Trend
Agency D70
Agency D70
Transaction Count
8000
6000
4000
2000
2023-09
2023-11
2024-01
2024-03
2024-05
2024-07
2024-09
2024-11
2025-01
Date

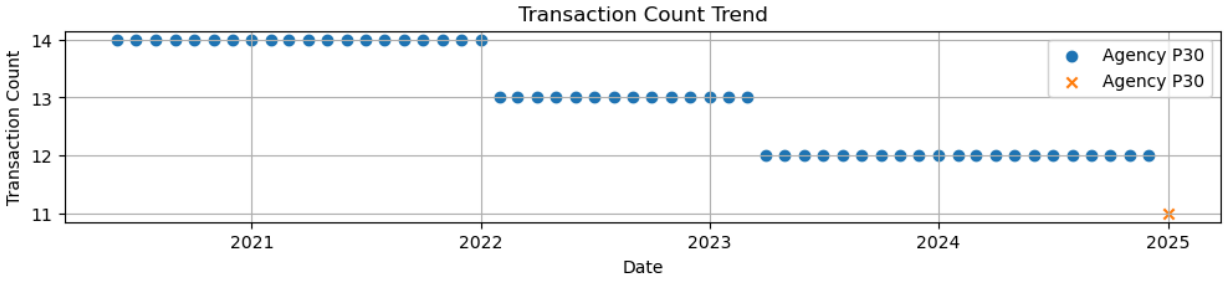

Transaction Count Trend
Agency P08
Agency P08
Transaction Count
7.0
6.5
6.0
5.5
5.0
2021
2022
2023
2024
2025
Date

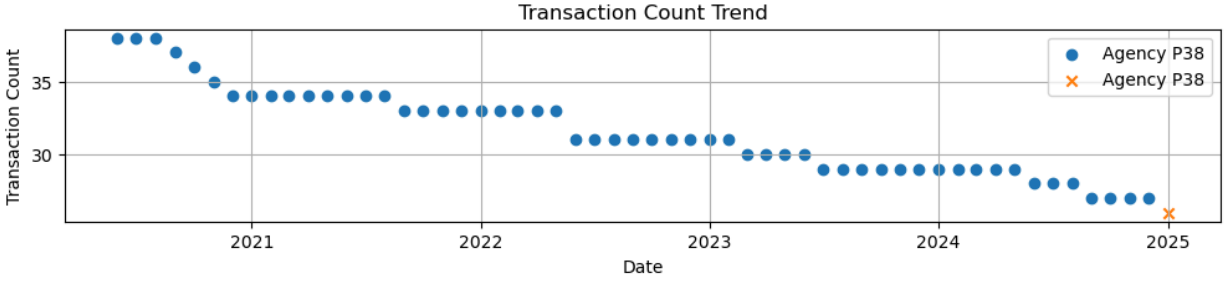

Transaction Count Trend
Agency P0F
Agency P0F
Transaction Count
10
8
6
2021
2022
2023
2024
2025
Date

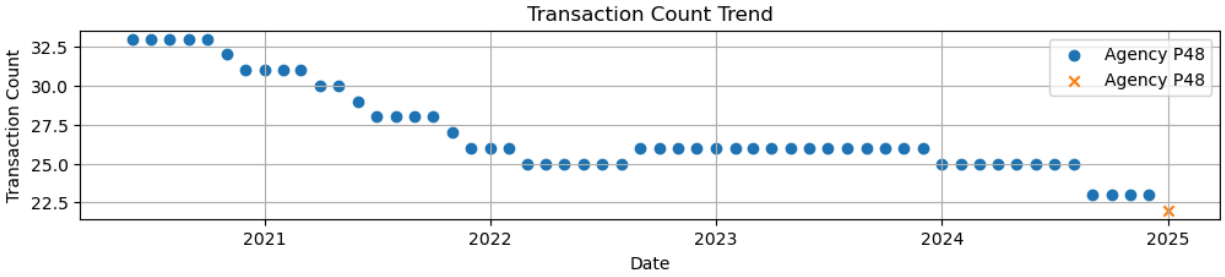

Transaction Count Trend
Agency P1C
Agency P1C
Transaction Count
70
60
50
2021
2022
2023
2024
2025
Date

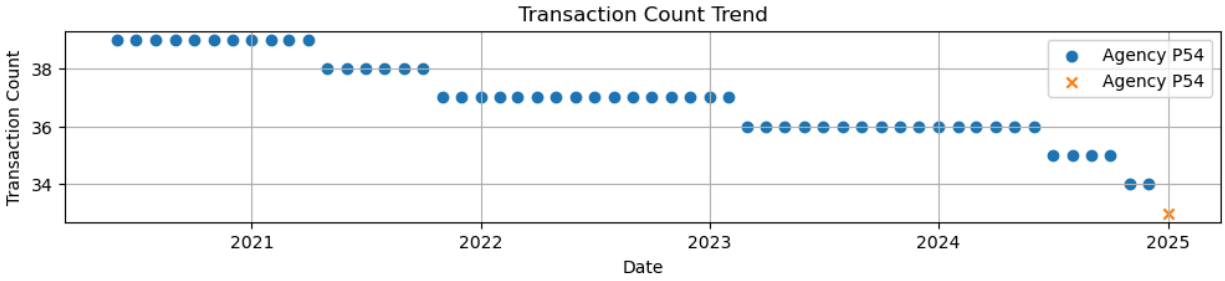

Transaction Count Trend
Agency P1F
Agency P1F
Transaction Count
18
16
14
12
10
2021
2022
2023
2024
2025
Date

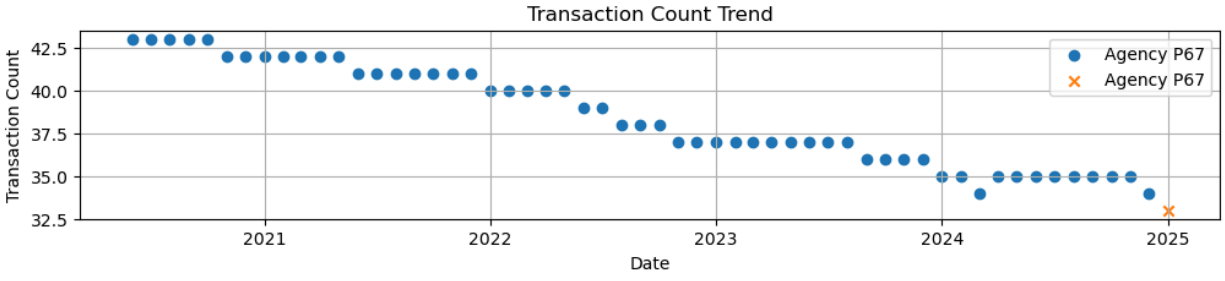

Transaction Count Trend
Transaction Count
5.00
4.75
4.50
4.25
4.00
Agency P24
Agency P24
2021
2022
2023
2024
2025
Date

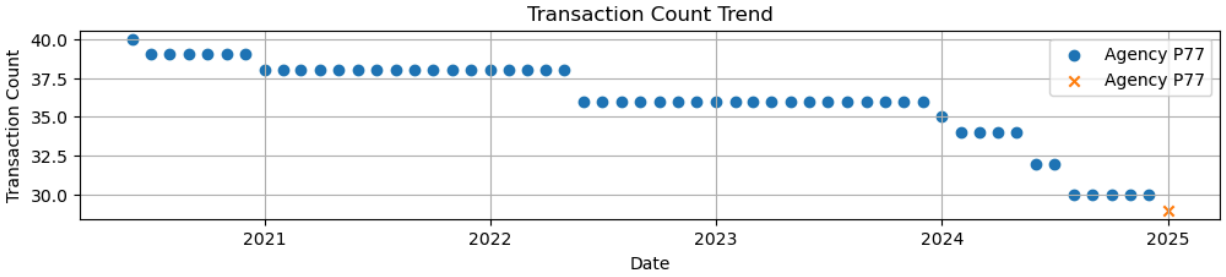

Transaction Count Trend
Transaction Count
14
13
12
11
Agency P30
Agency P30
2021
2022
2023
2024
2025
Date

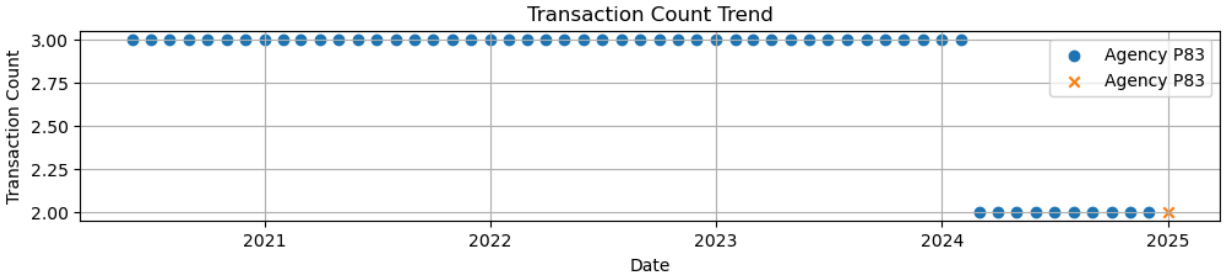

Transaction Count Trend
Transaction Count
35
30
Agency P38
Agency P38
2021
2022
2023
2024
2025
Date

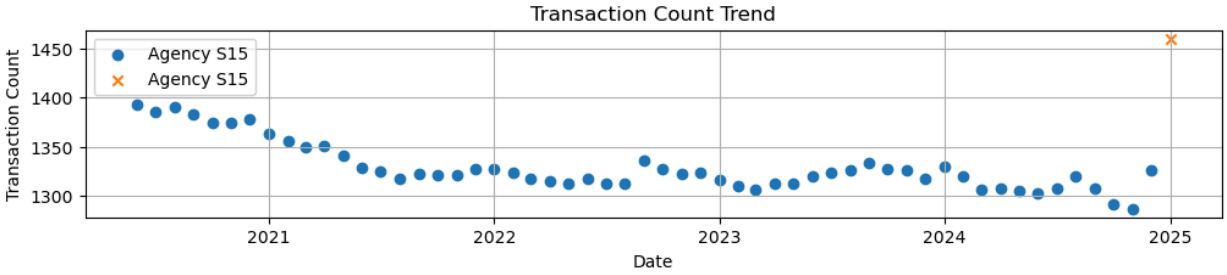

Transaction Count Trend
Transaction Count
32.5
30.0
27.5
25.0
22.5
Agency P48
Agency P48
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Transaction Count
38
36
34
Agency P54
Agency P54
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Transaction Count
42.5
40.0
37.5
35.0
32.5
Agency P67
Agency P67
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Transaction Count
Date
Agency P77
Agency P77
40.0
37.5
35.0
32.5
30.0
2021
2022
2023
2024
2025


Transaction Count Trend
Transaction Count
Date
Agency P83
Agency P83
3.00
2.75
2.50
2.25
2.00
2021
2022
2023
2024
2025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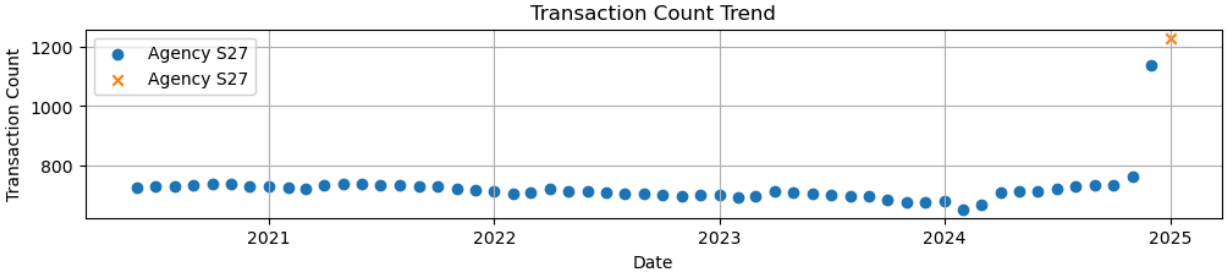
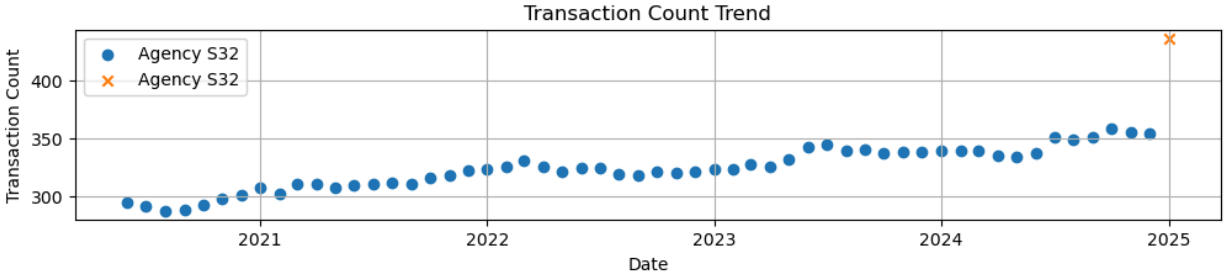
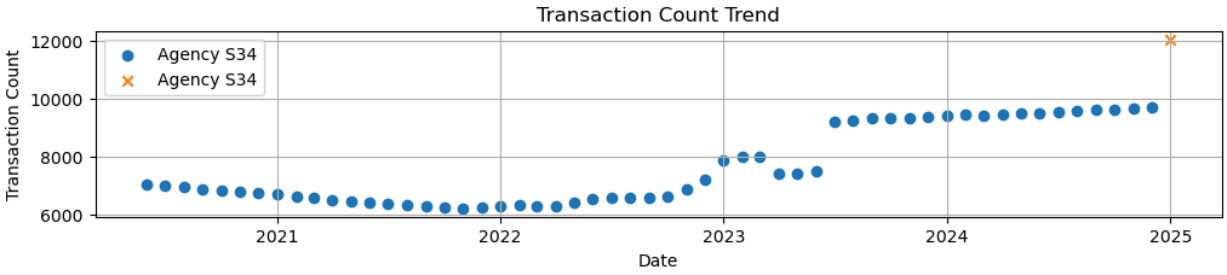
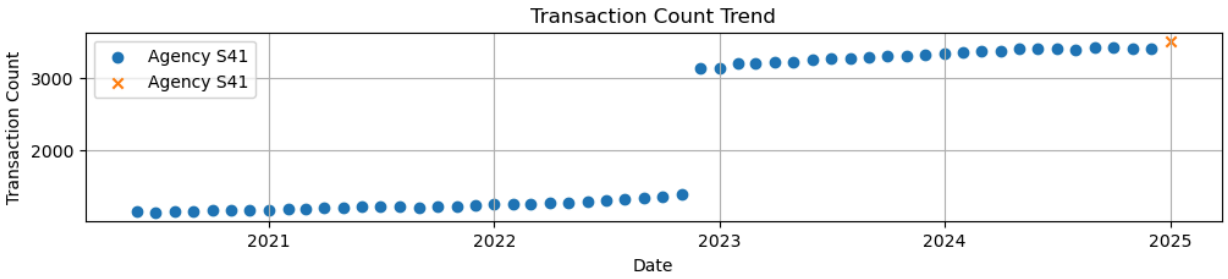
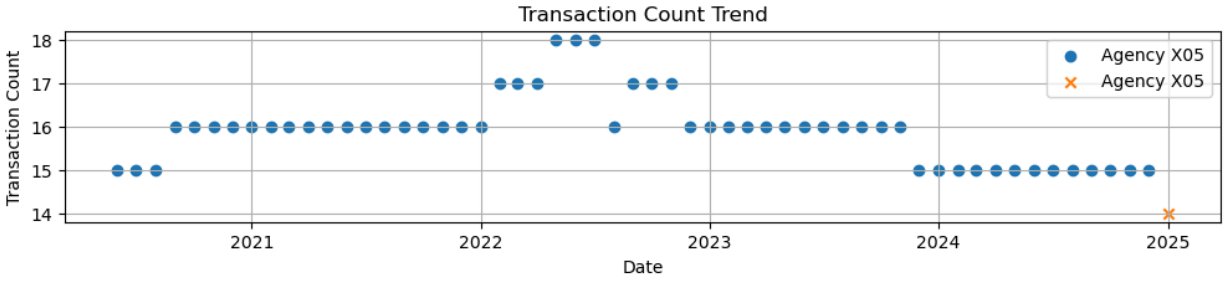
Transaction Count
Date
Agency S15
Agency S15
1450
1400
1350
1300
2021
2022
2023
2024
2025

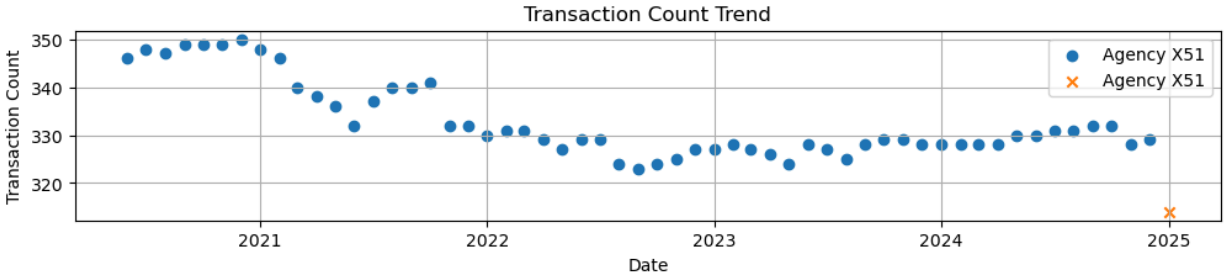

Transaction Count Trend
Transaction Count
Date
Agency S27
Agency S27
1200
1000
800
2021
2022
2023
2024
2025


Transaction Count Trend
Transaction Count
Date
Agency S32
Agency S32
400
350
300
2021
2022
2023
2024
2025


Transaction Count Trend
Transaction Count
Date
Agency S34
Agency S34
12000
10000
8000
6000
2021
2022
2023
2024
2025



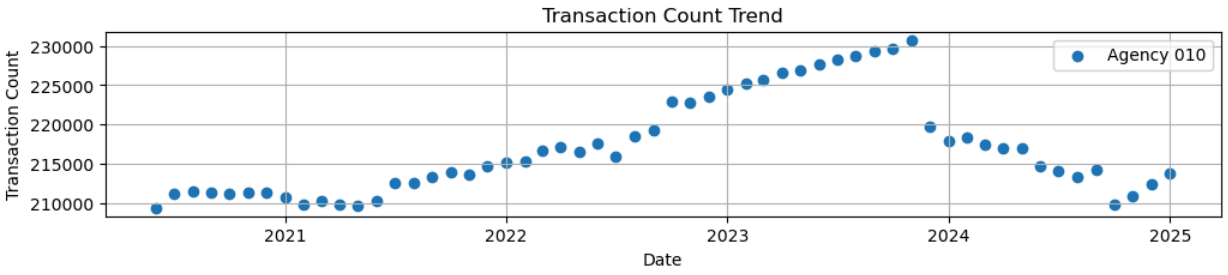


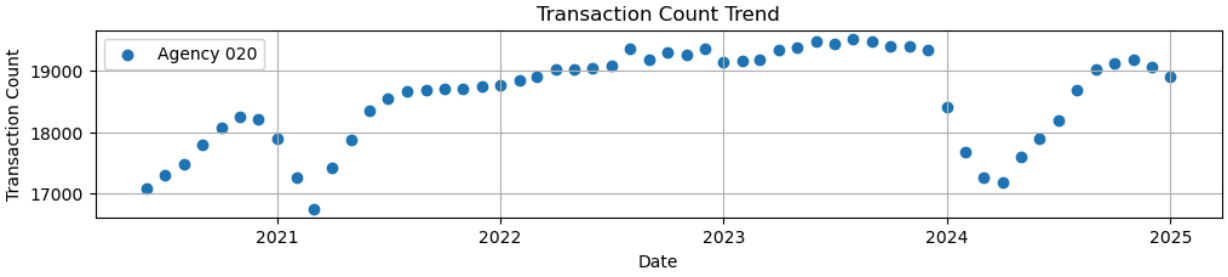


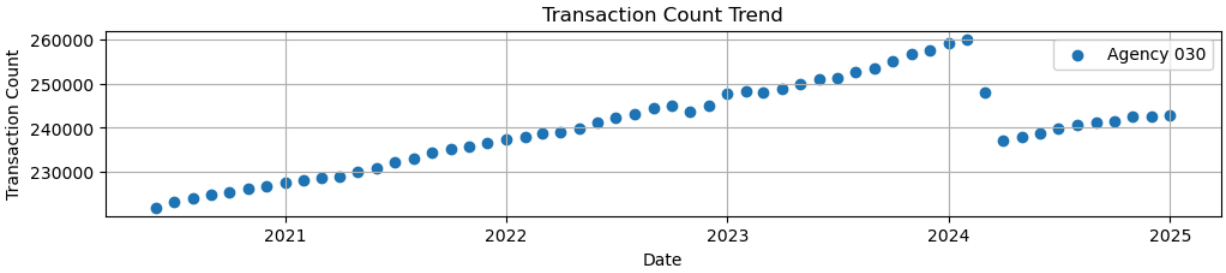
41 - Predicted as Normal

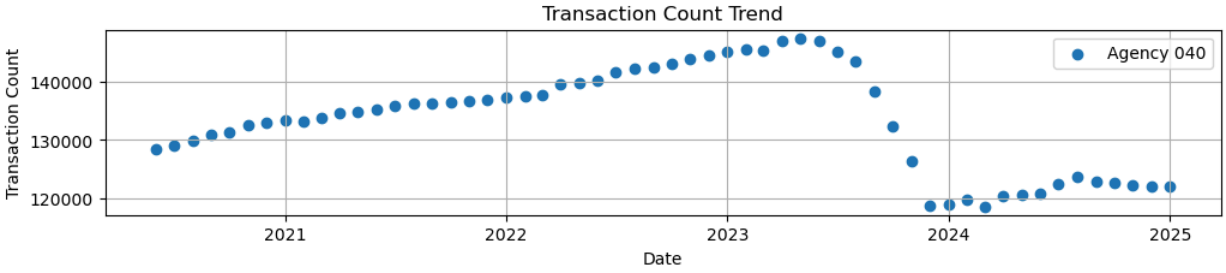
In [175…

```
for agency in sorted(combined.query("status=='new' and tpmi_trans_cd=='41' and outlier
    show_outliers(combined, '41', [agency])
```






Transaction Count Trend
Agency 030
Transaction Count
260000
250000
240000
230000
2021
2022
2023
2024
2025
Date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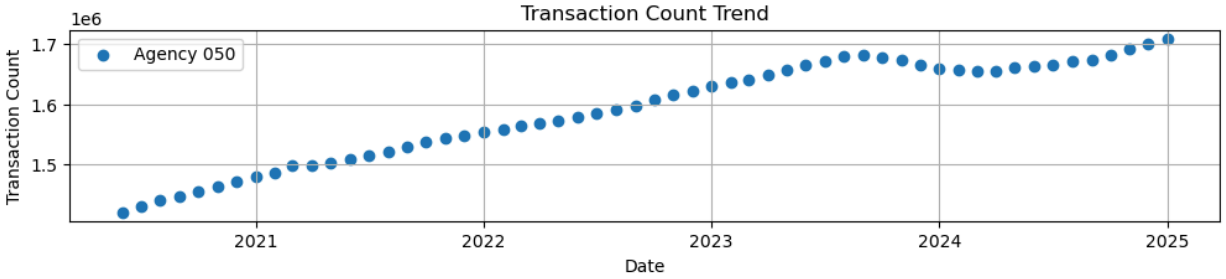
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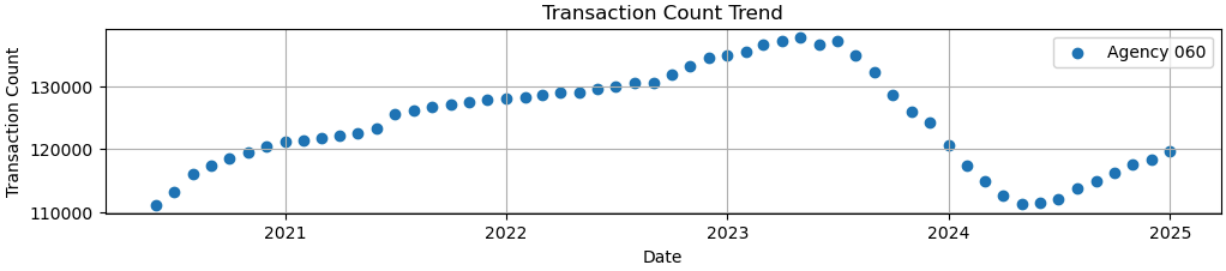
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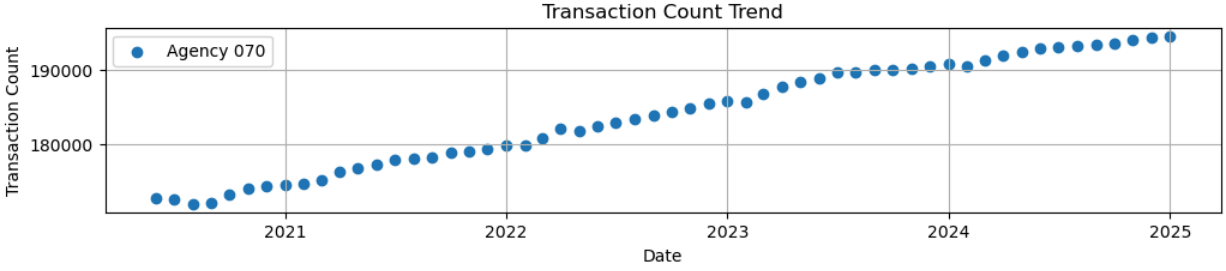
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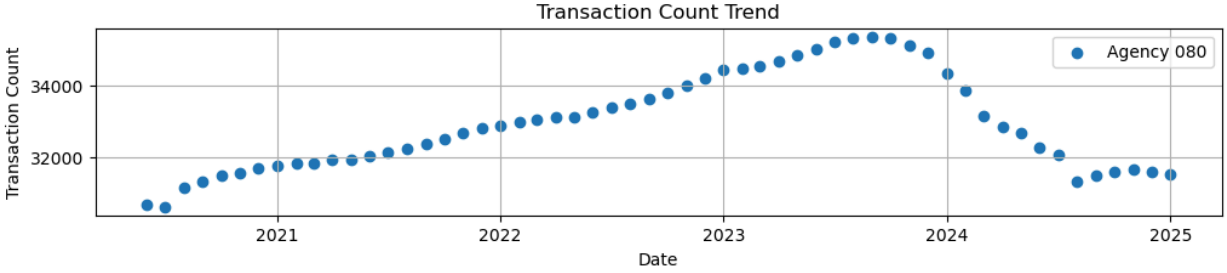
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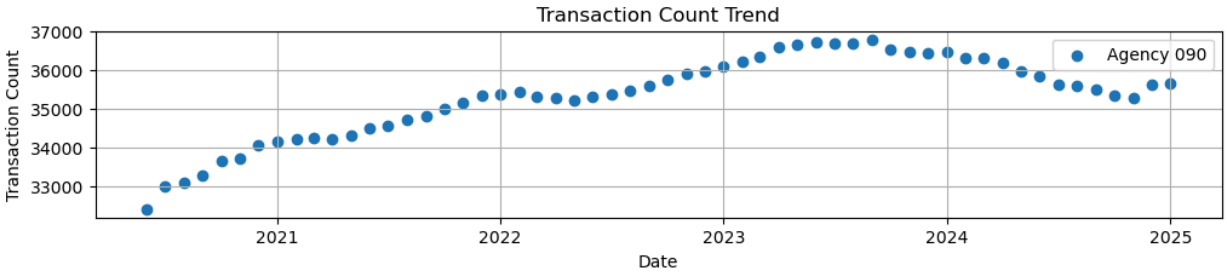
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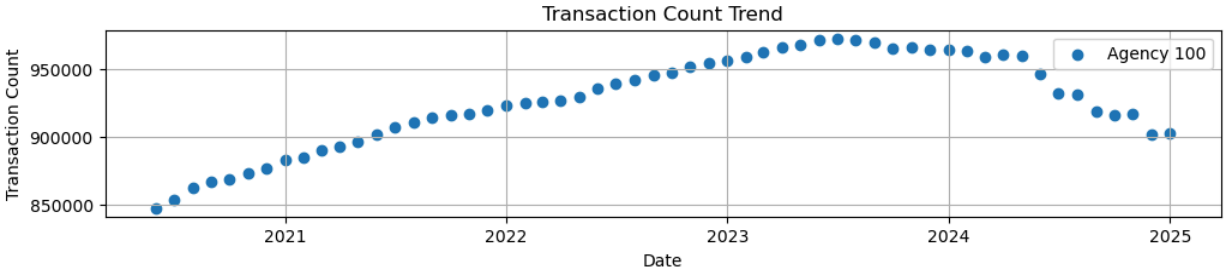
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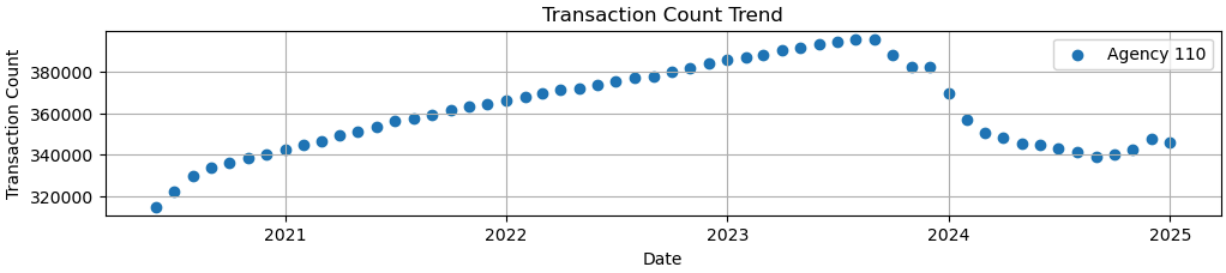
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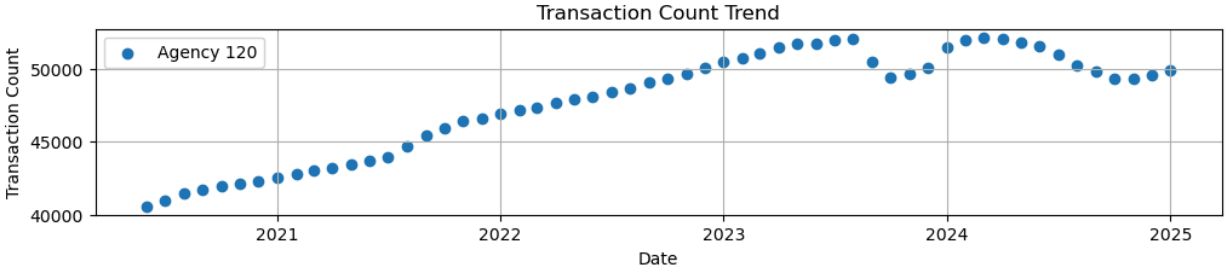
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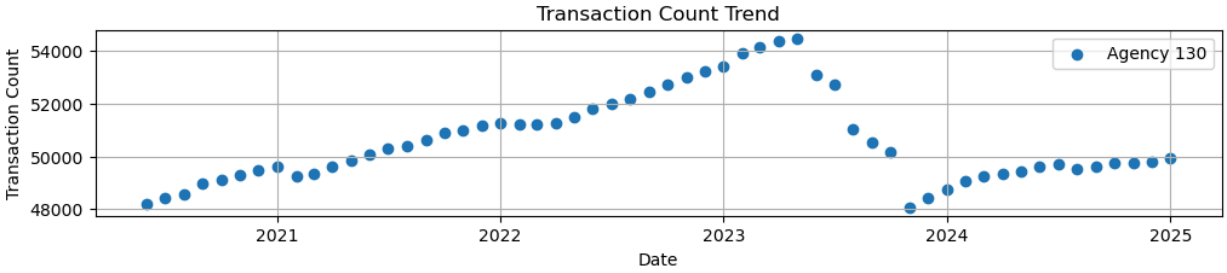
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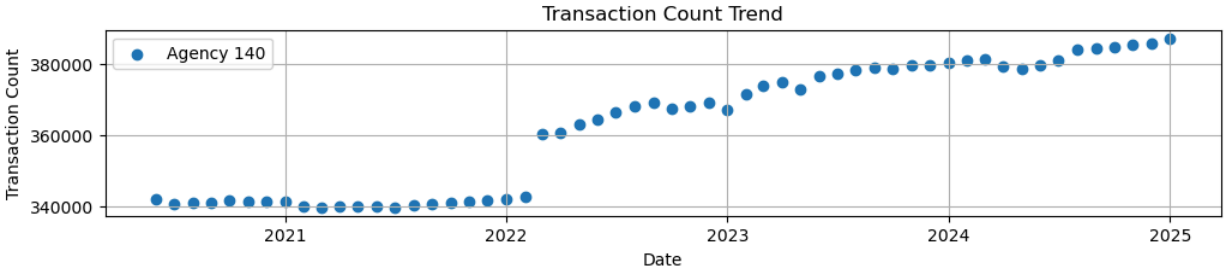
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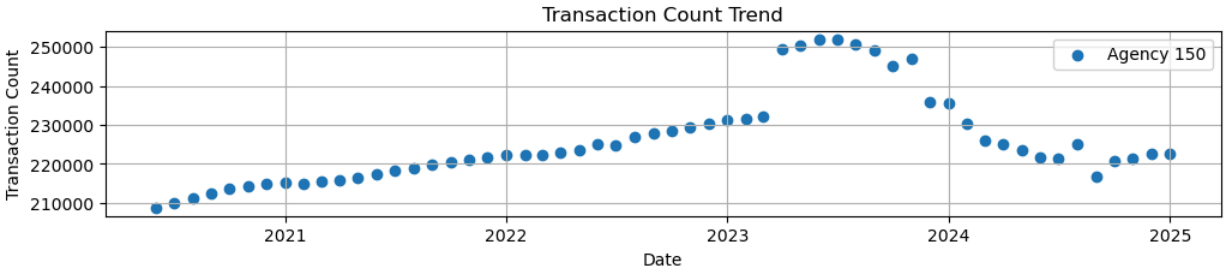
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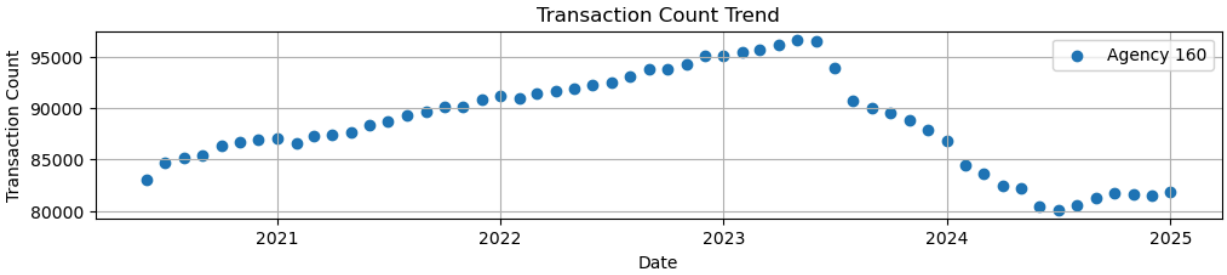
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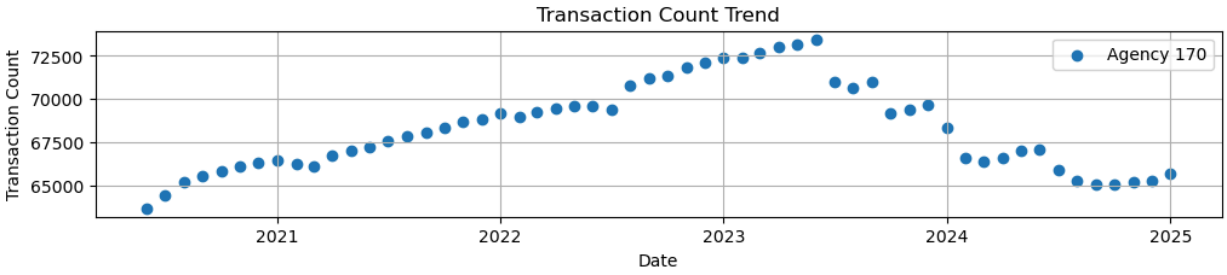
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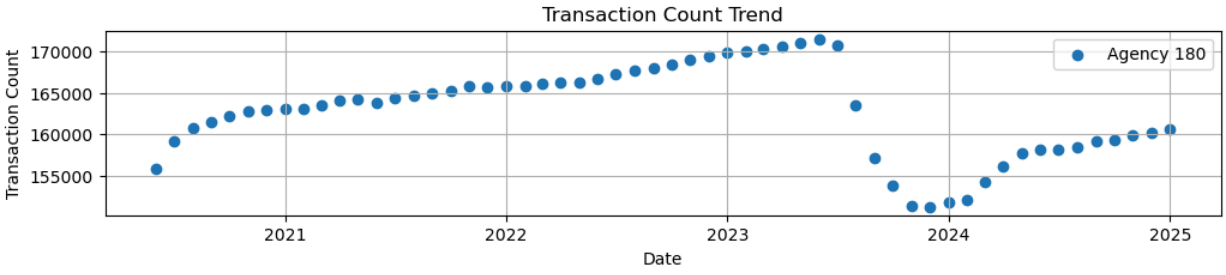
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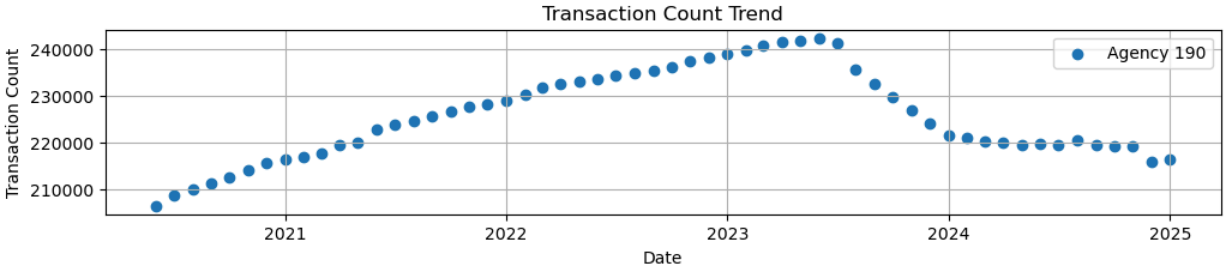
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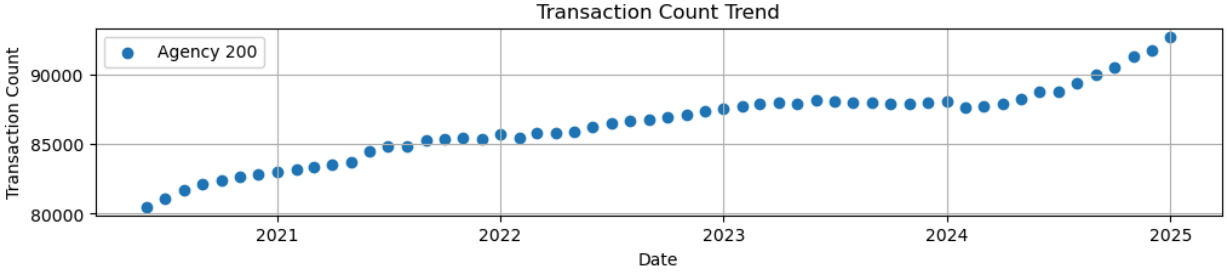
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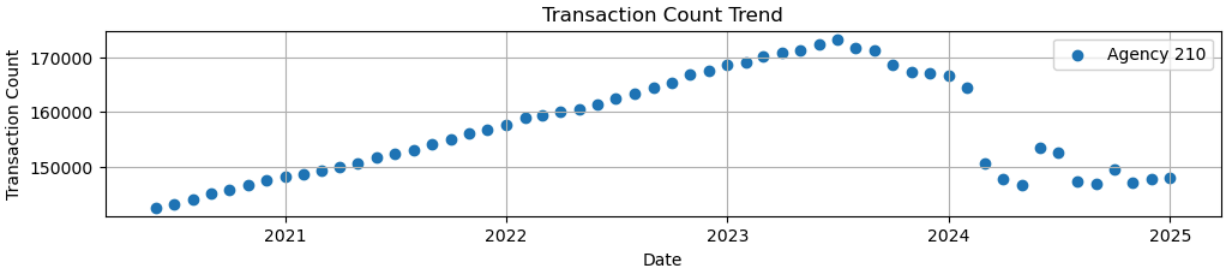
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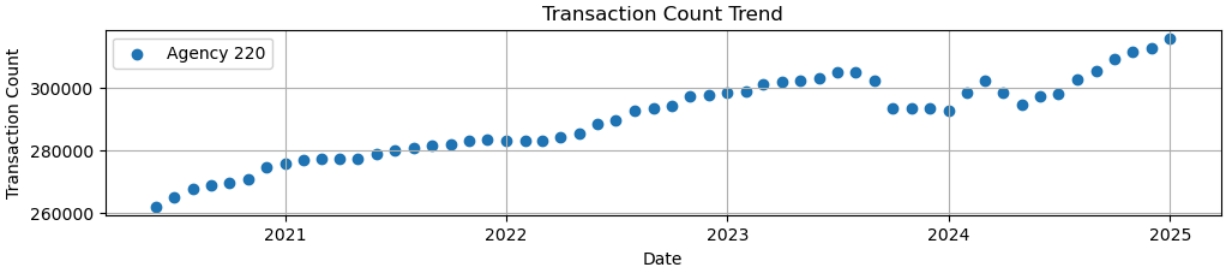
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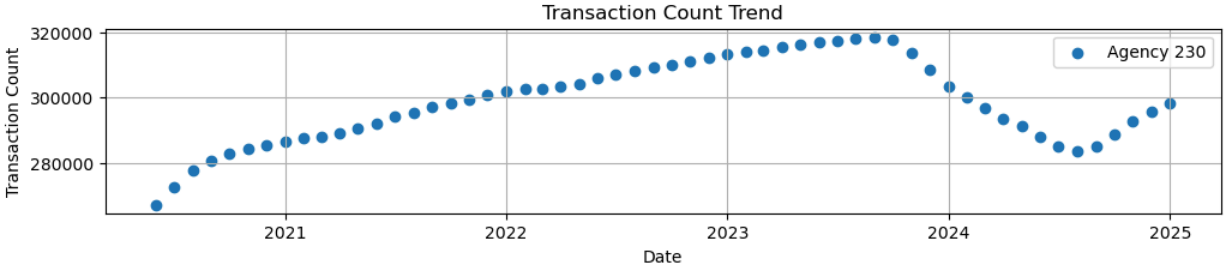
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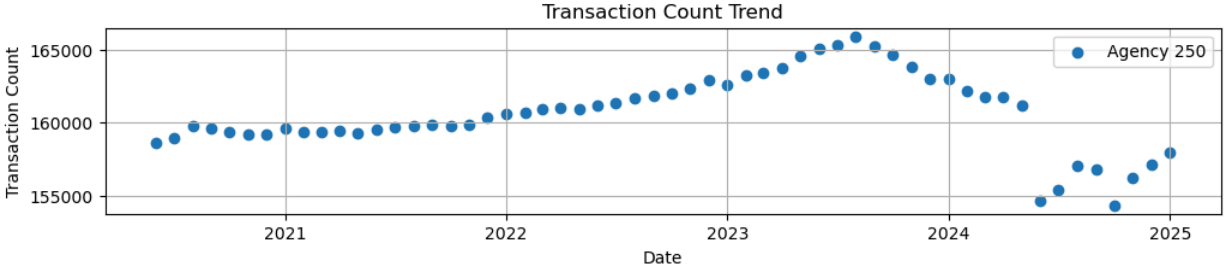
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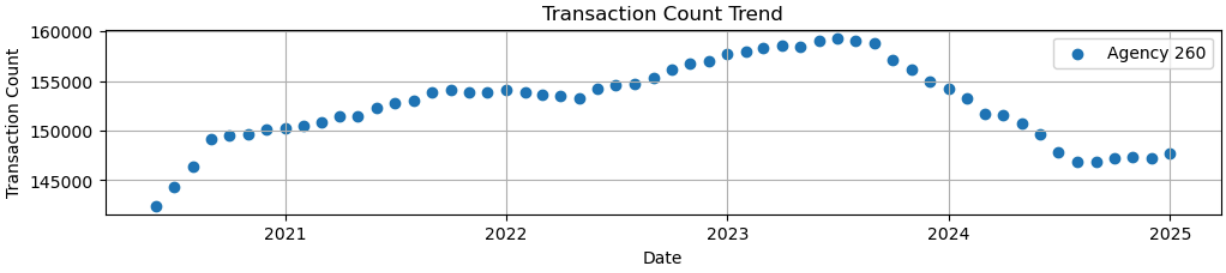
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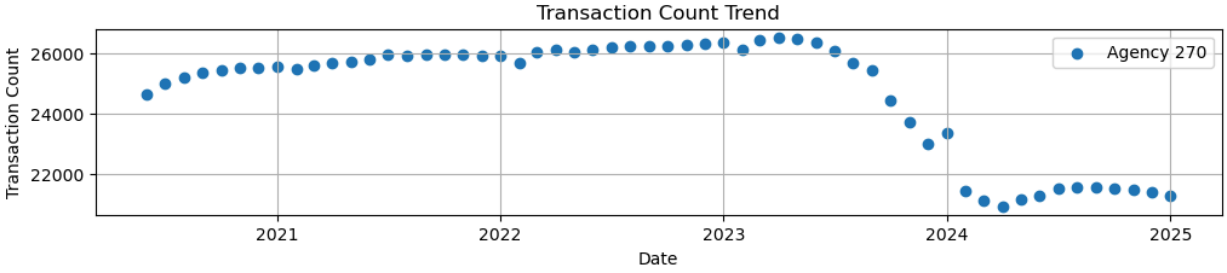
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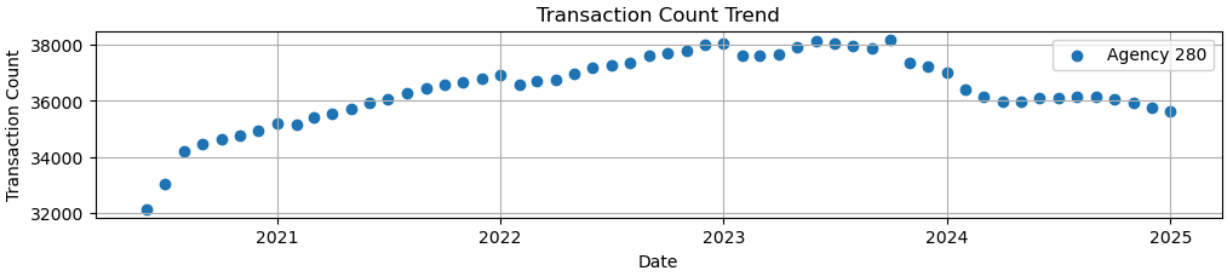
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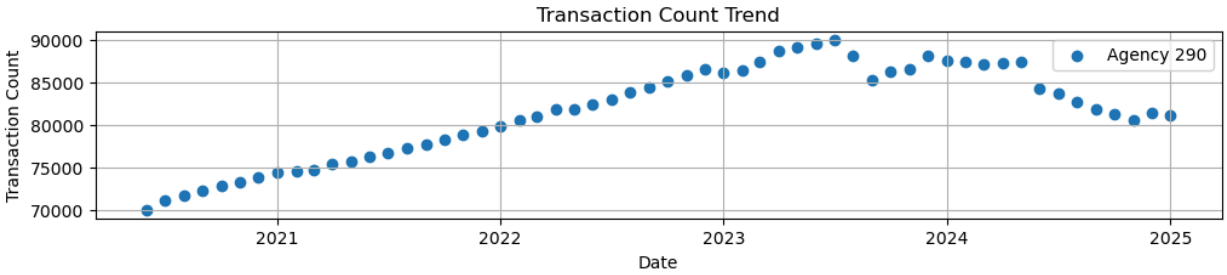
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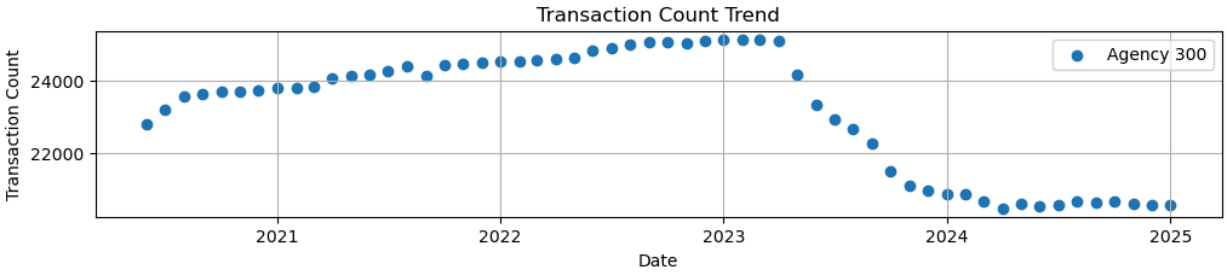
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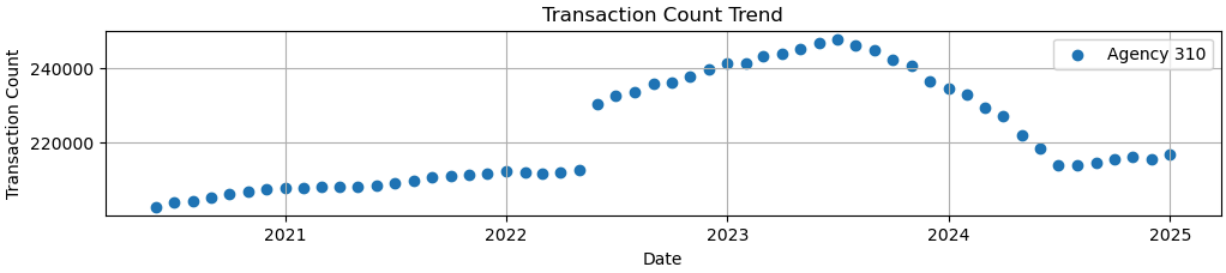
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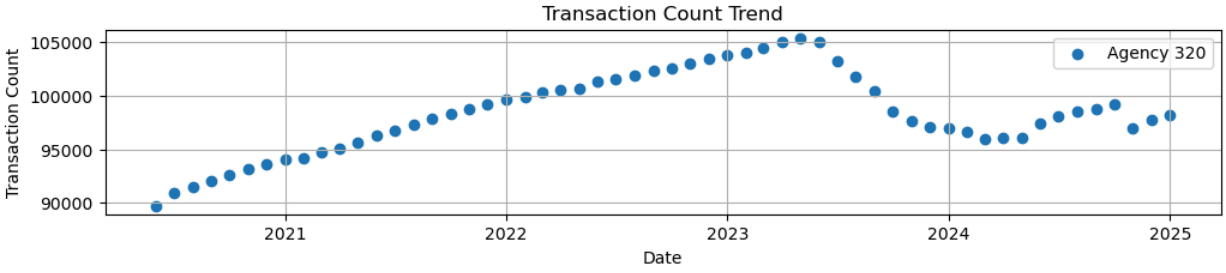
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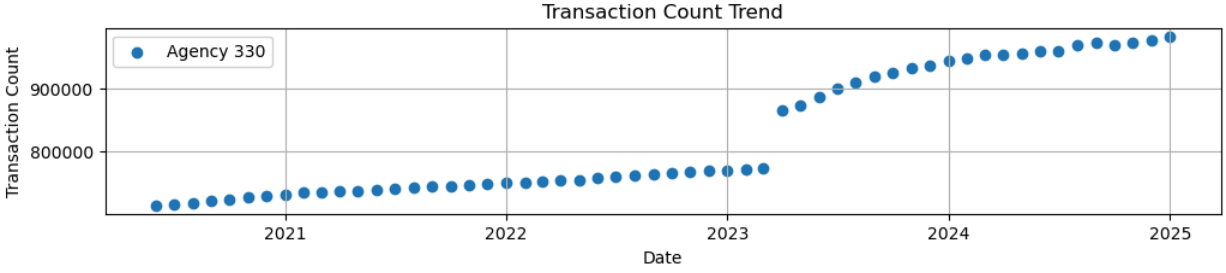
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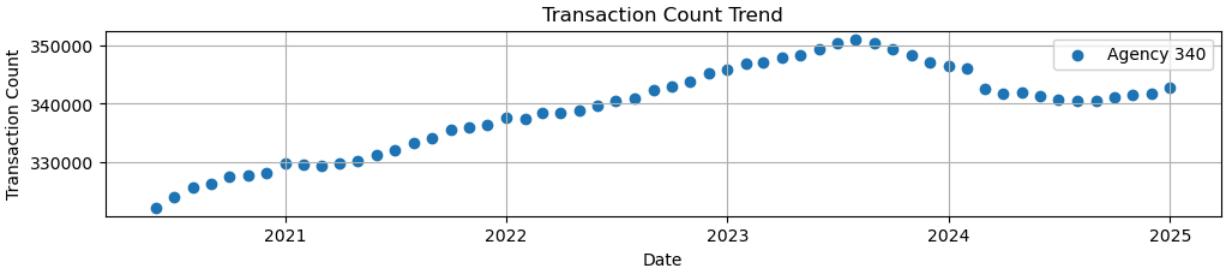
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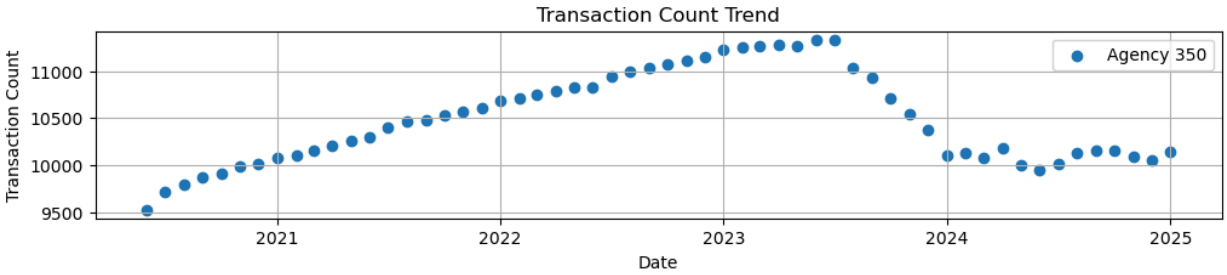
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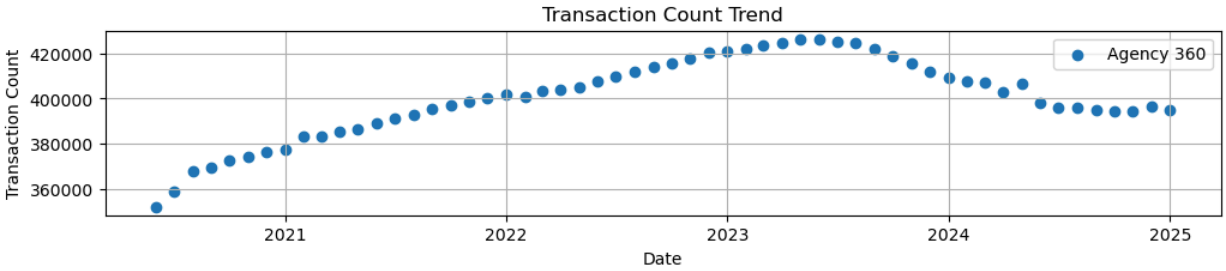
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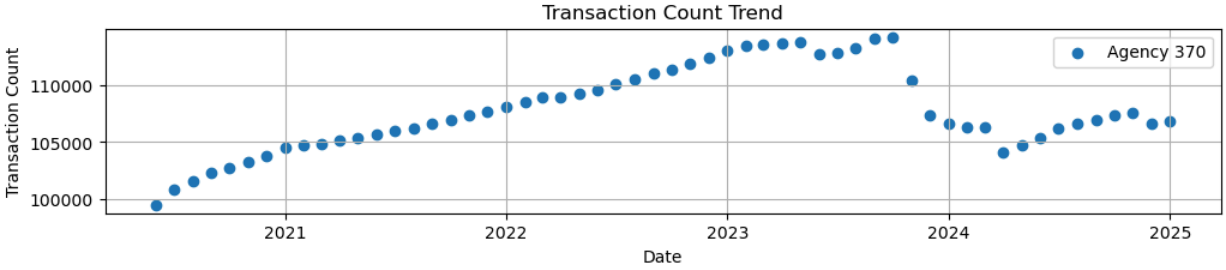
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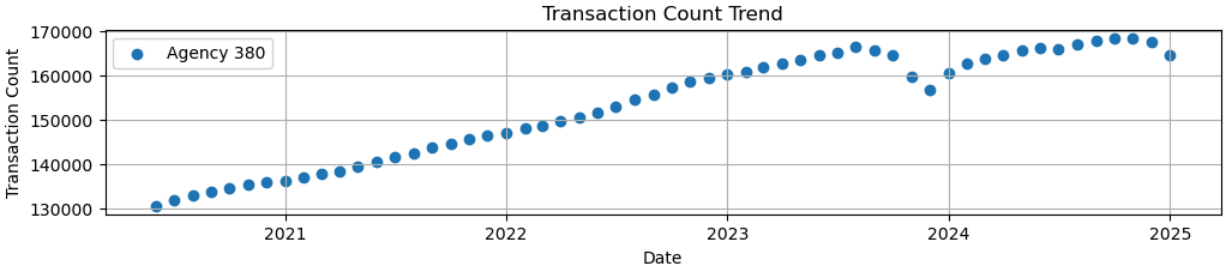
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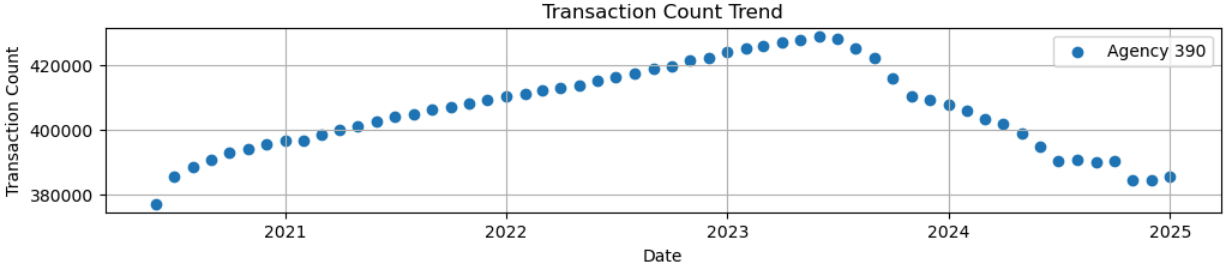
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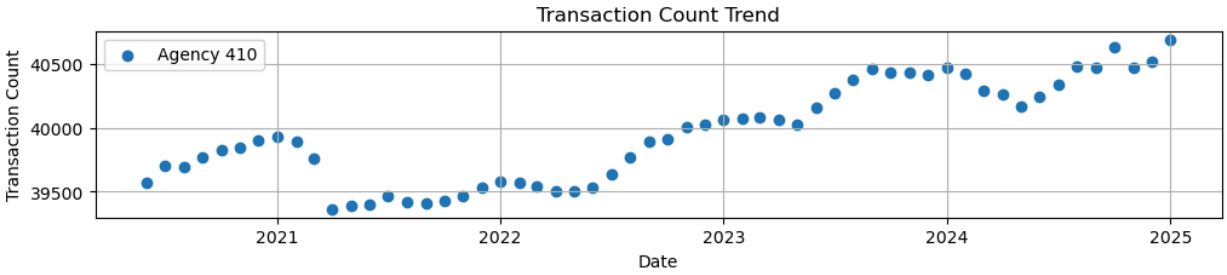
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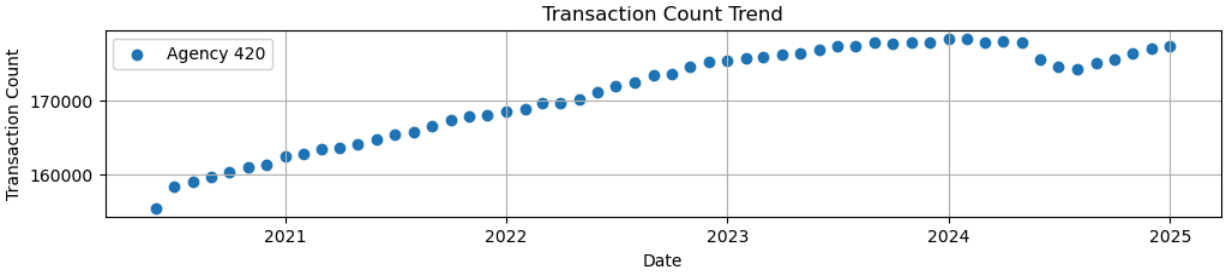
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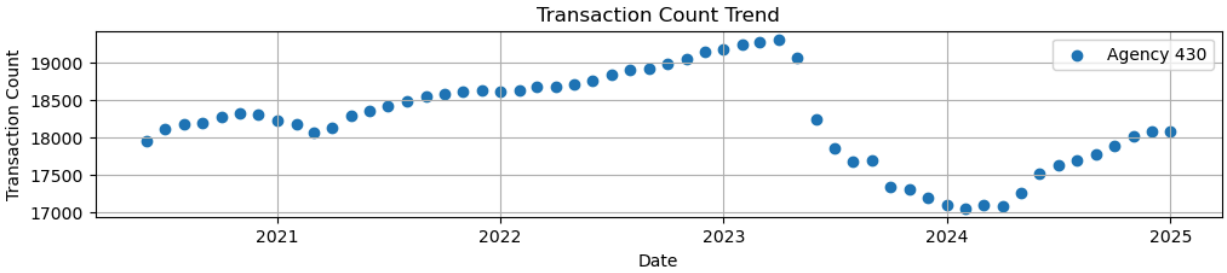
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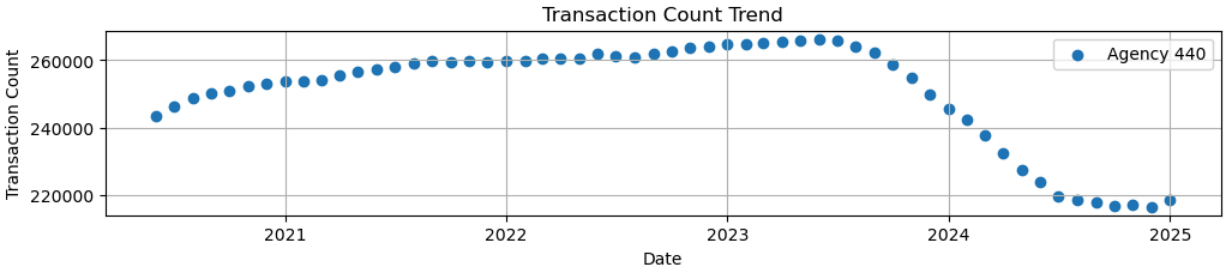
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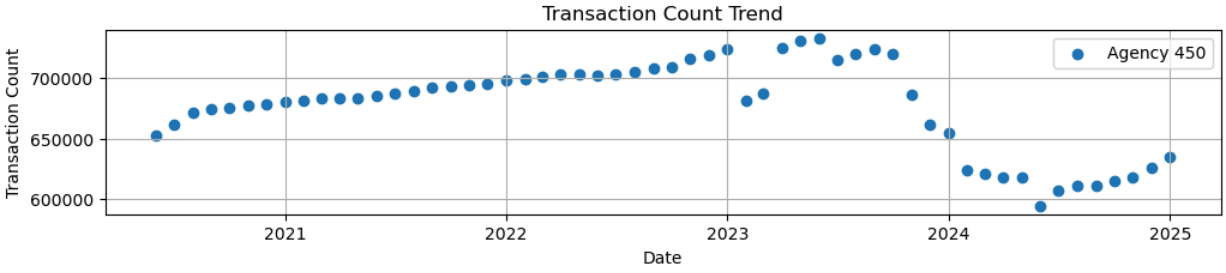
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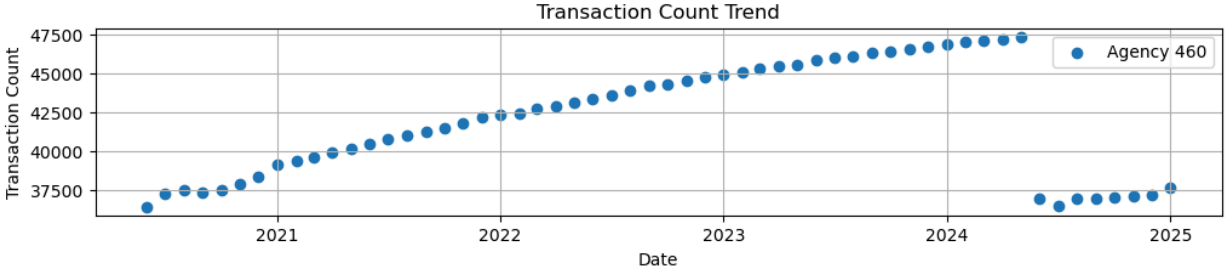
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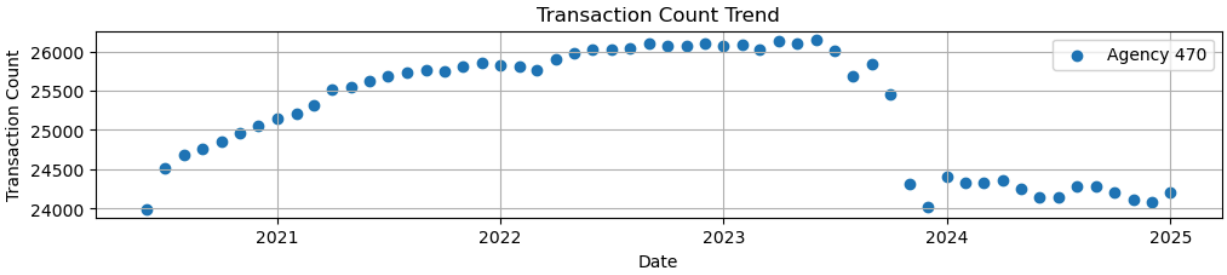
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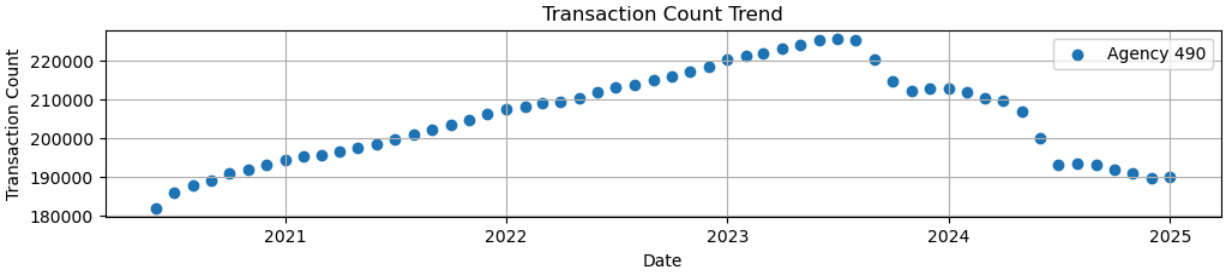
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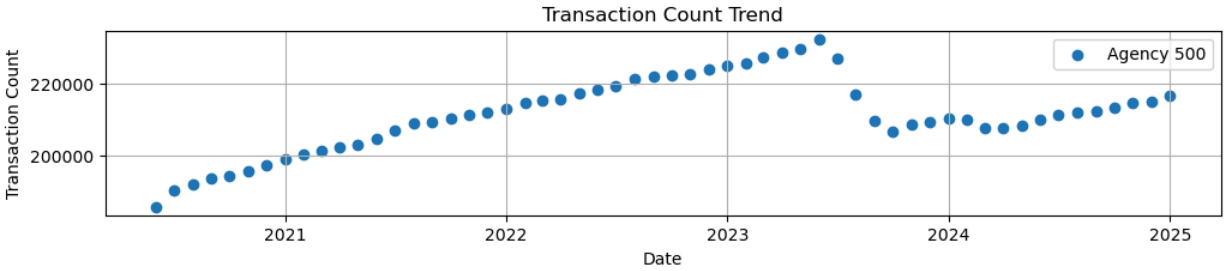
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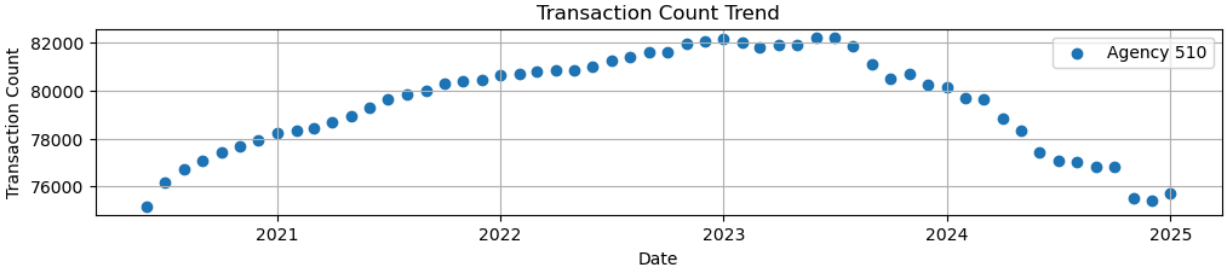
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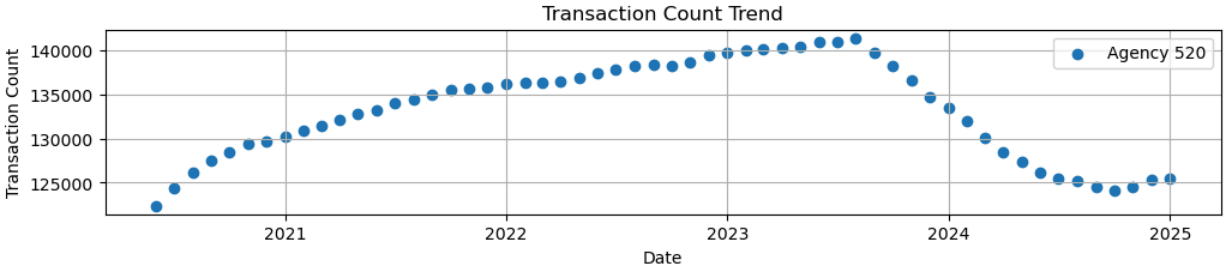
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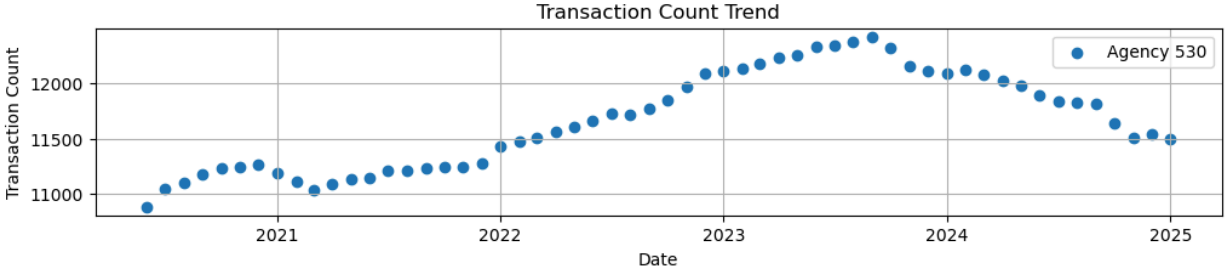
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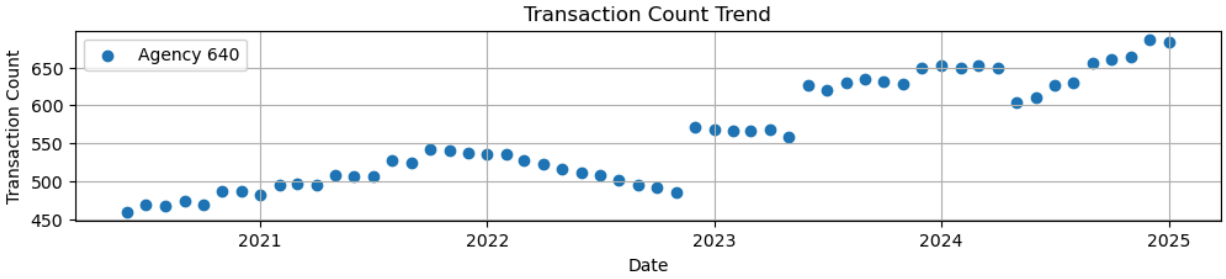
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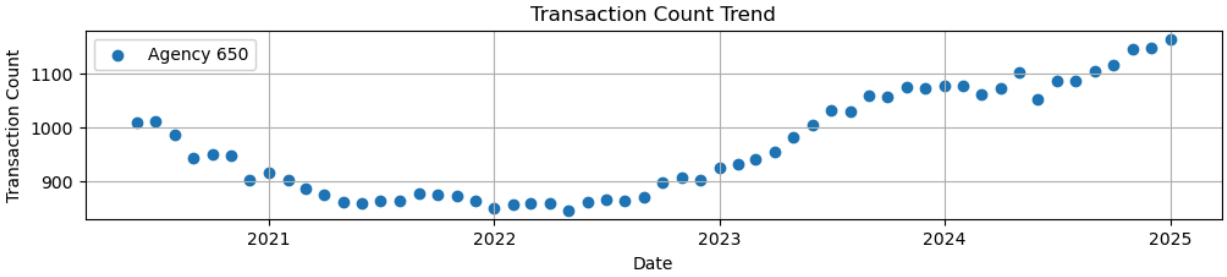
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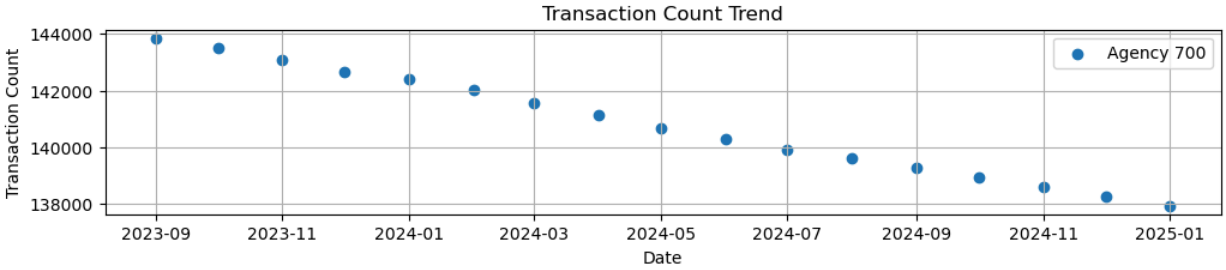
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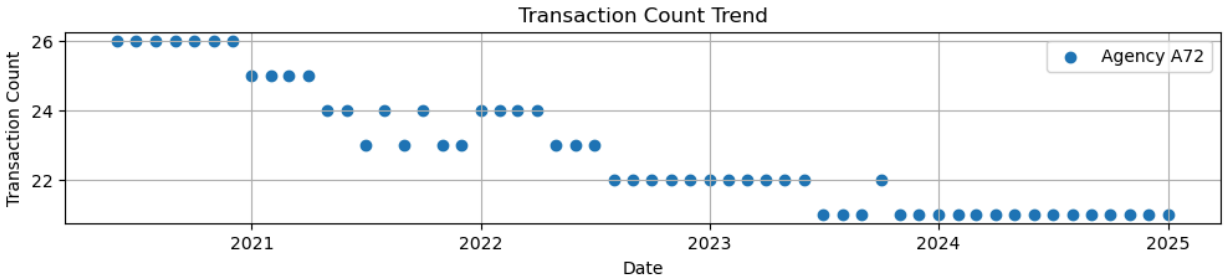
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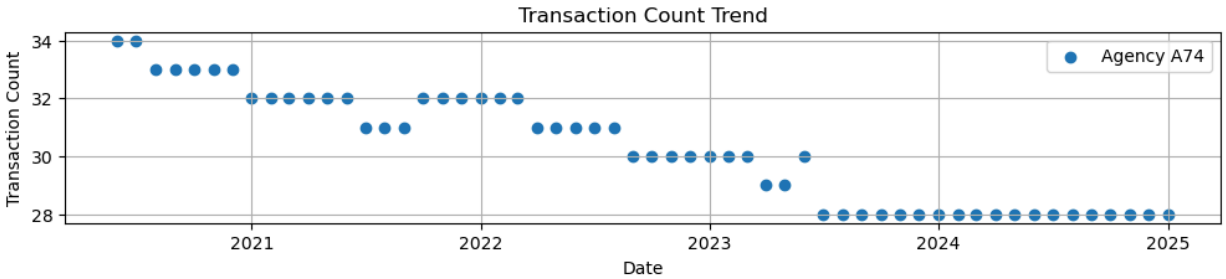
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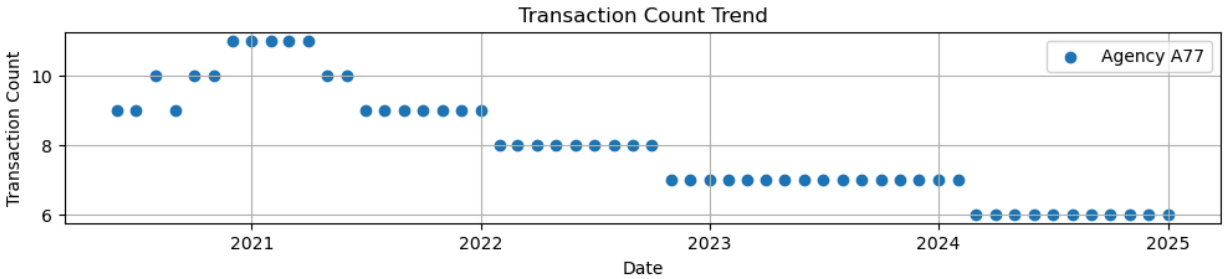
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Agency A77
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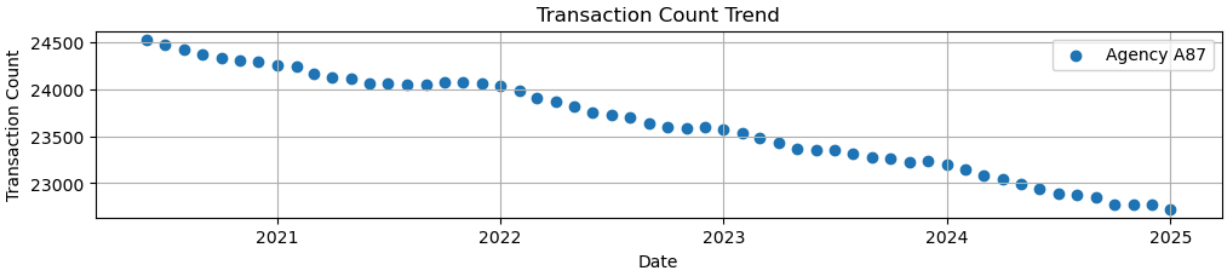
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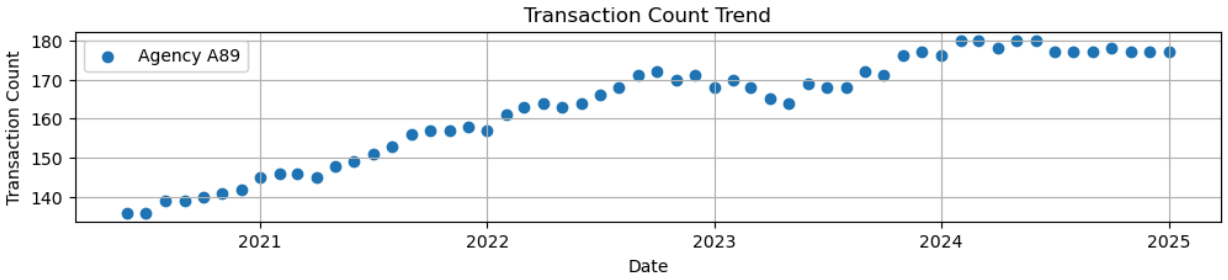
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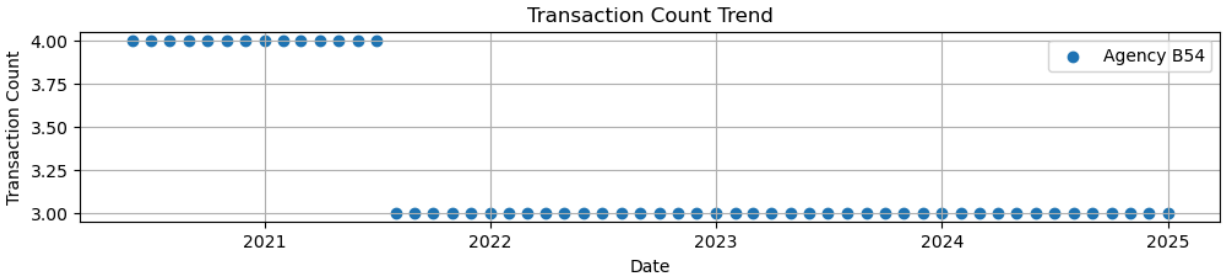
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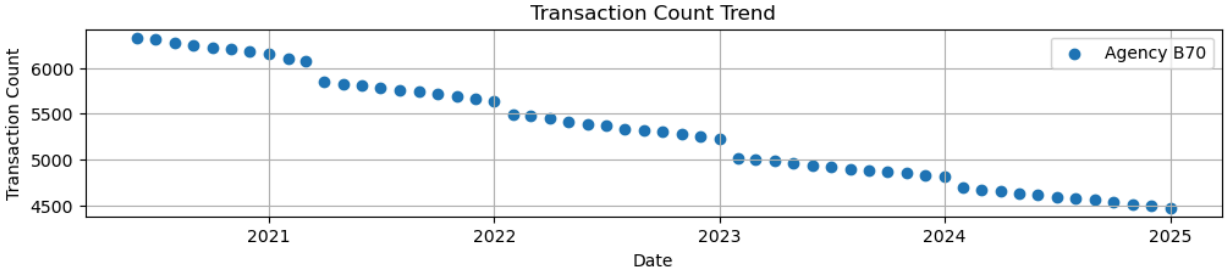
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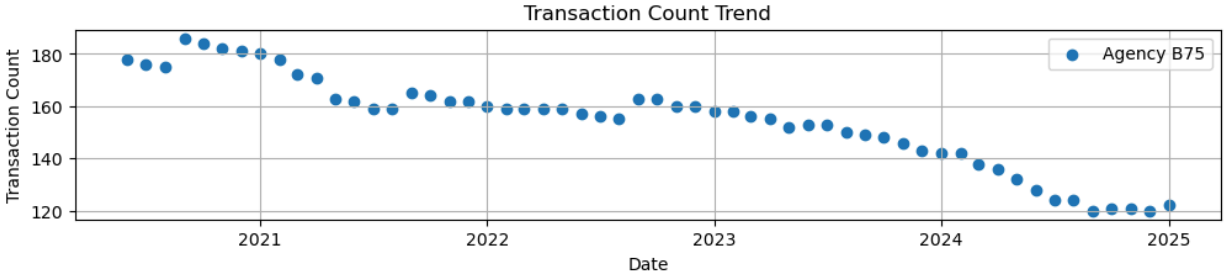
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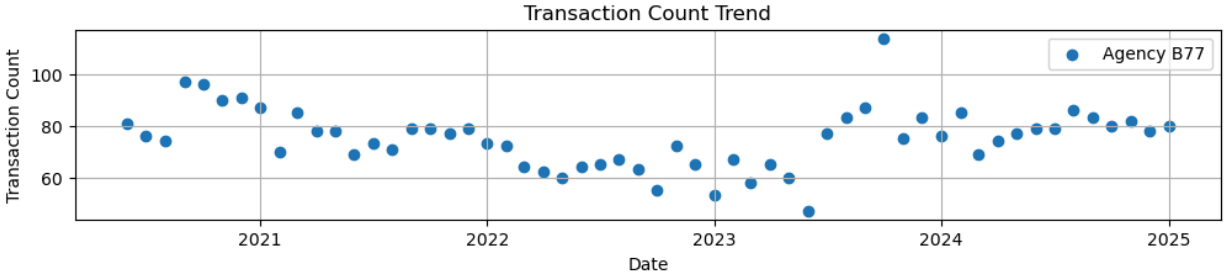
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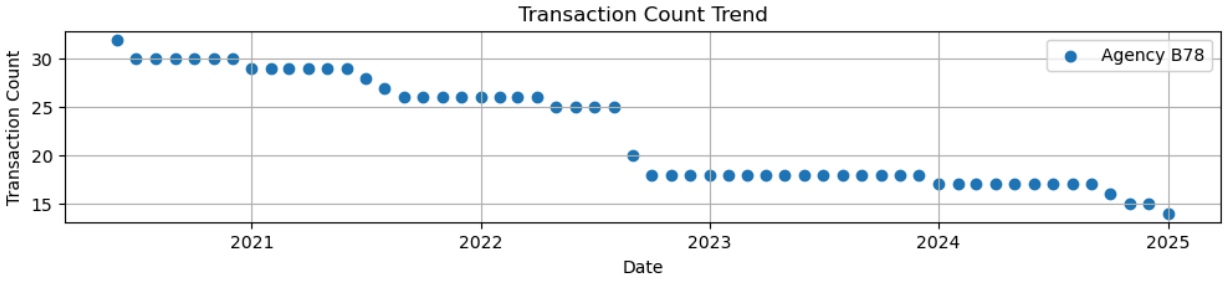
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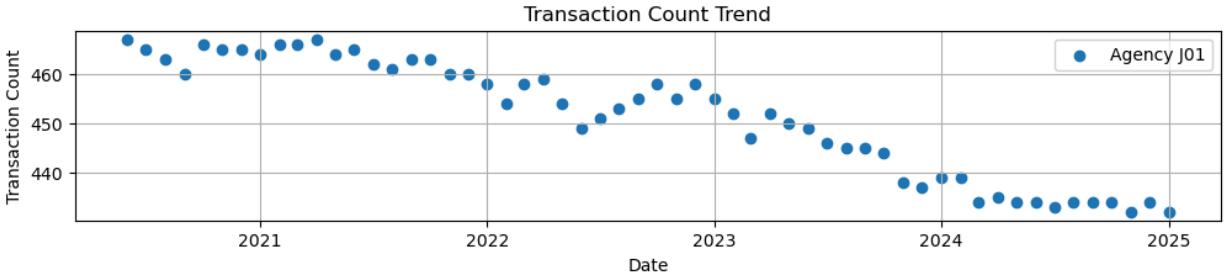
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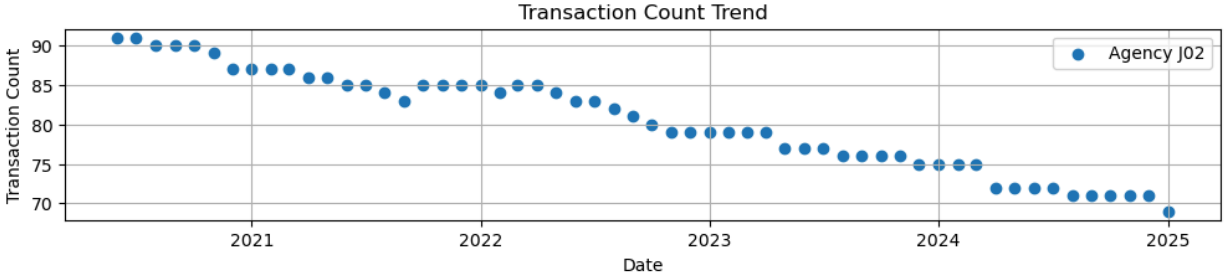
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Agency J02
Transaction Count
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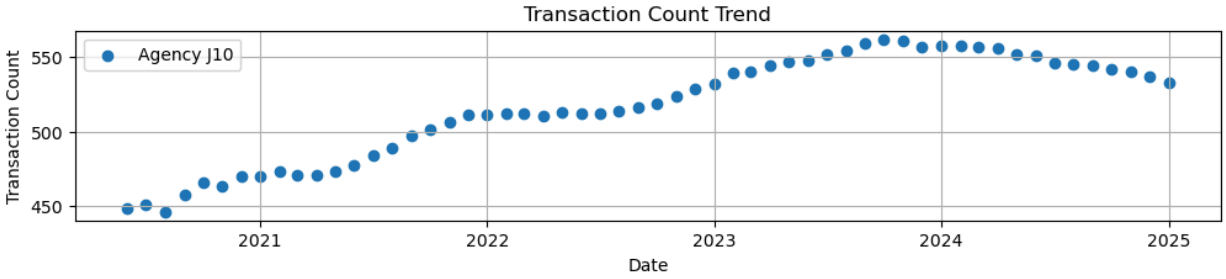
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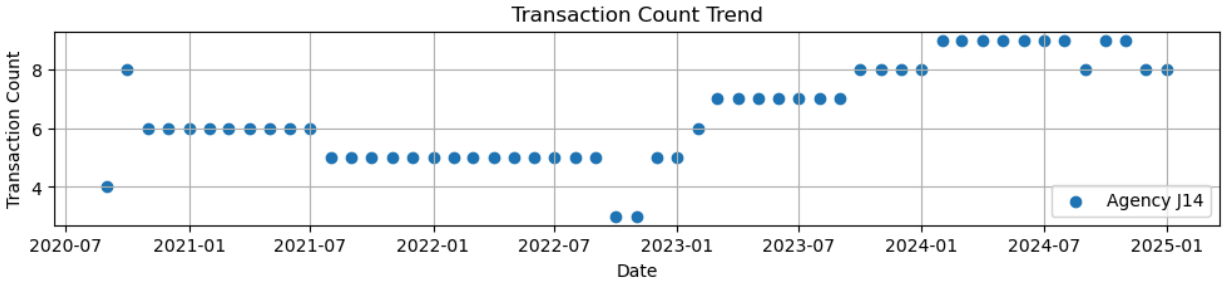
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Agency J14
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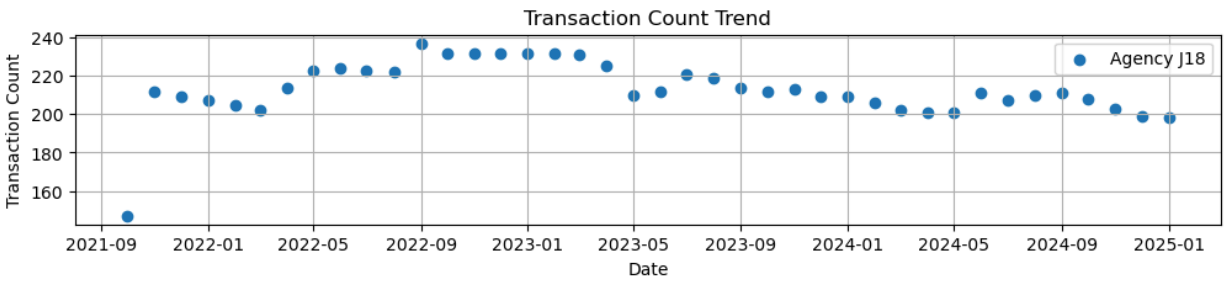
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Agency J18
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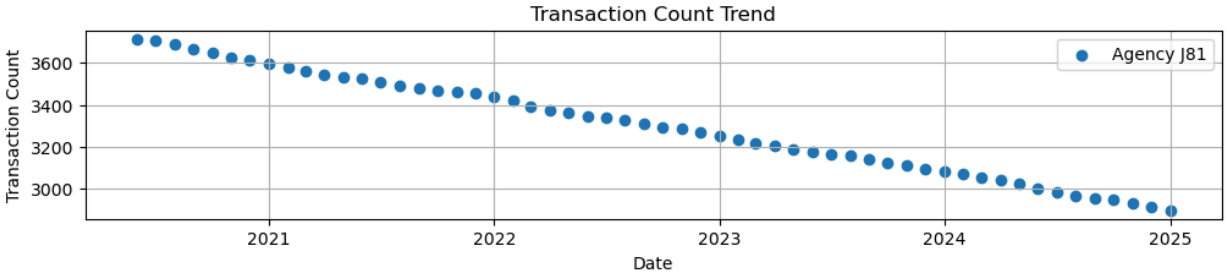
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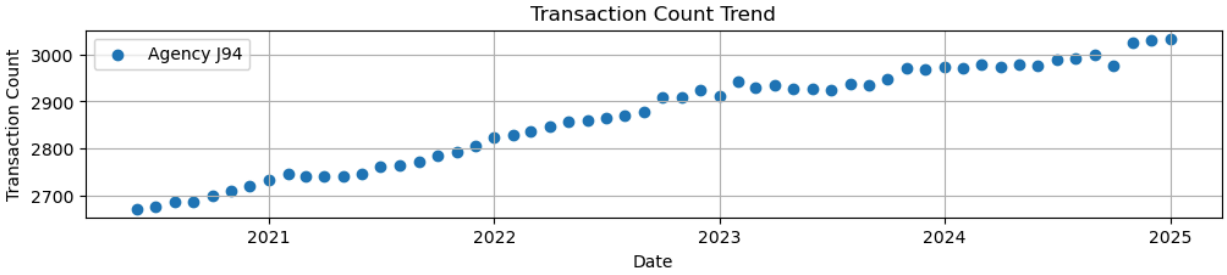
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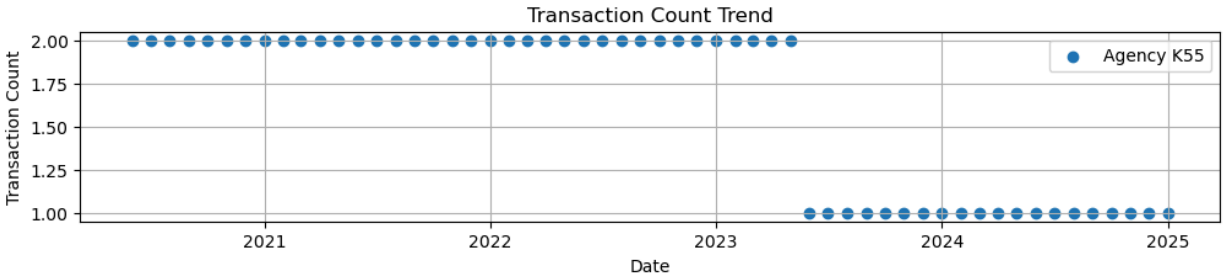
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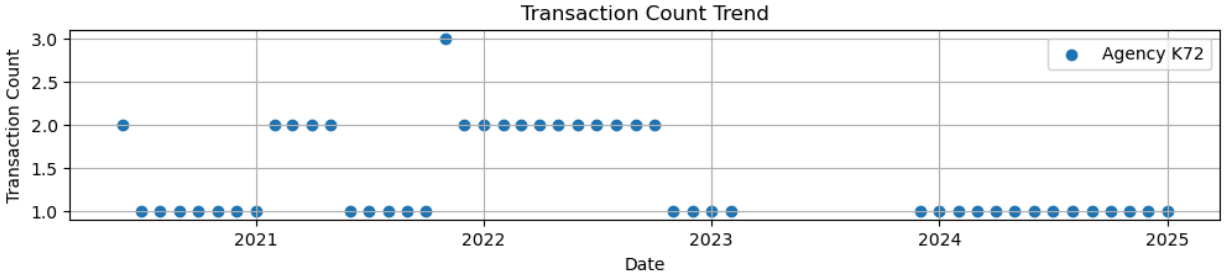
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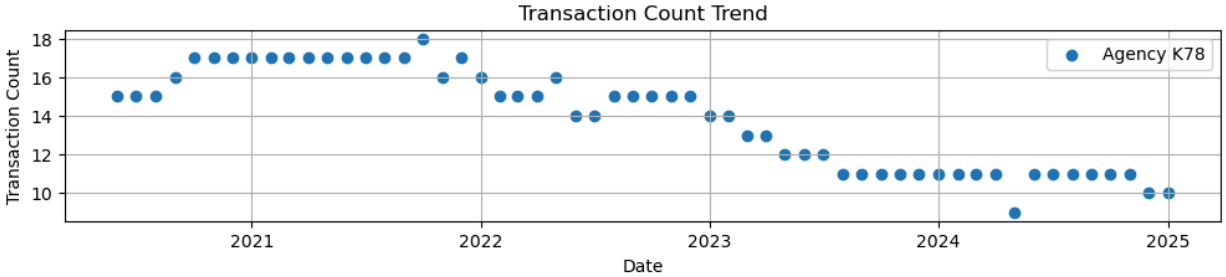
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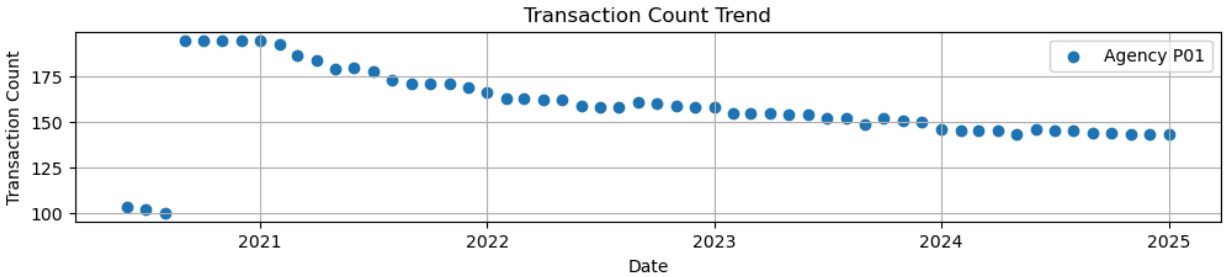
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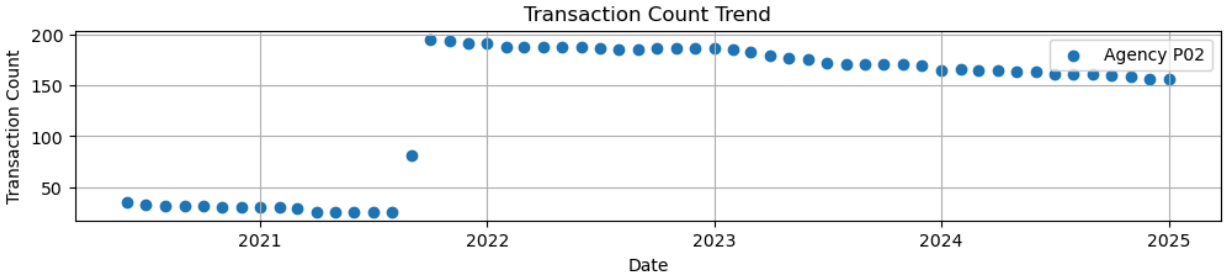
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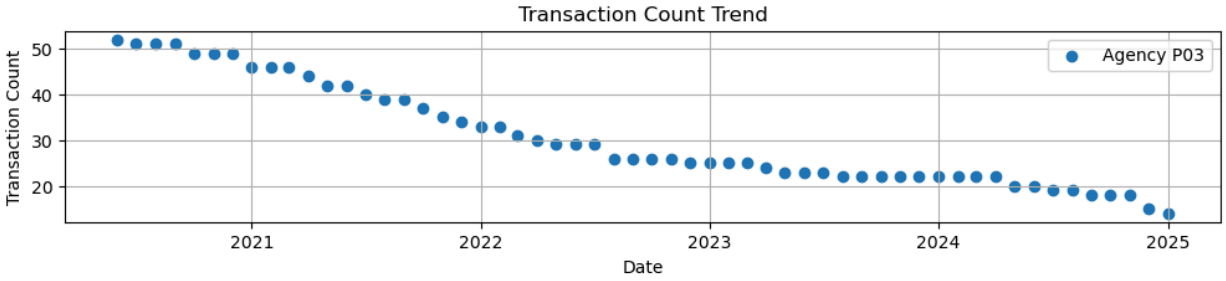
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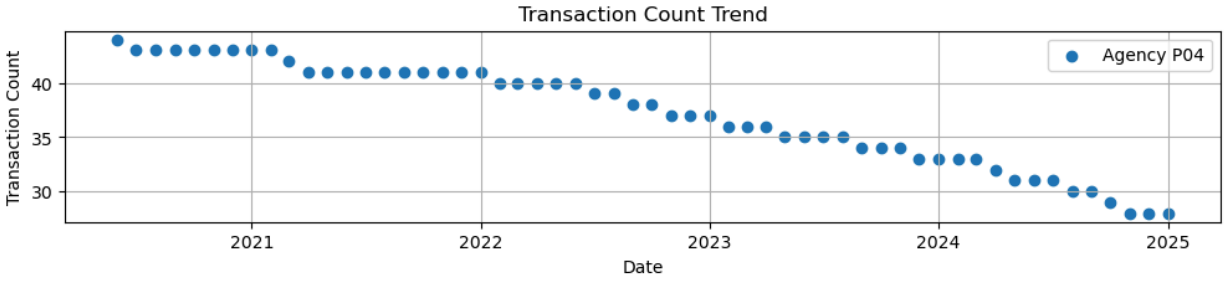
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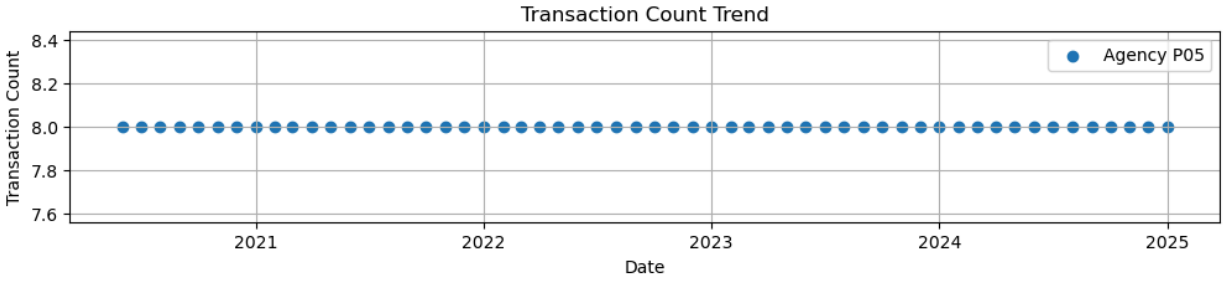
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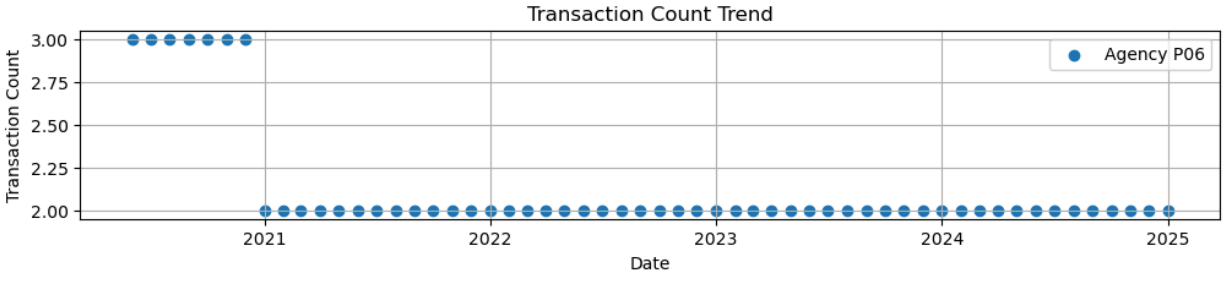
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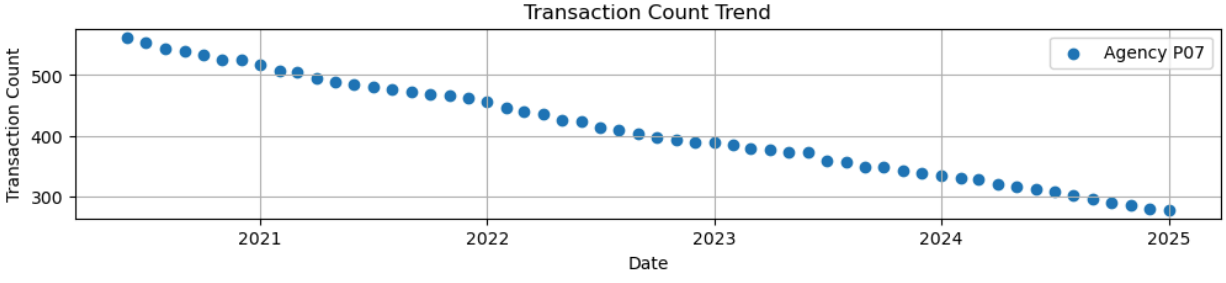
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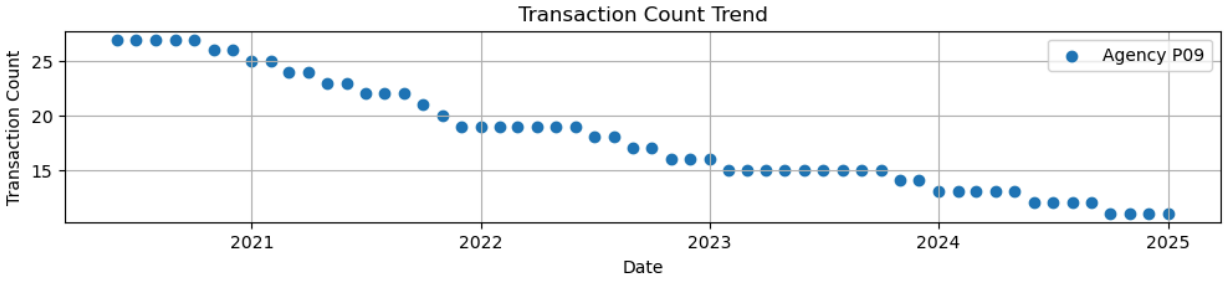
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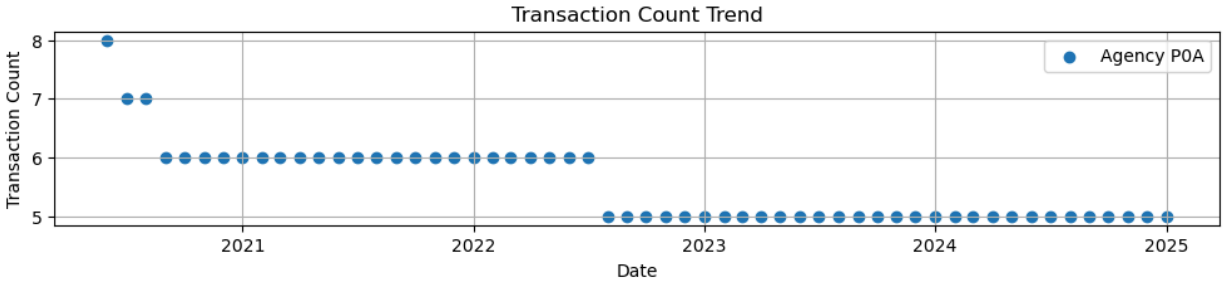
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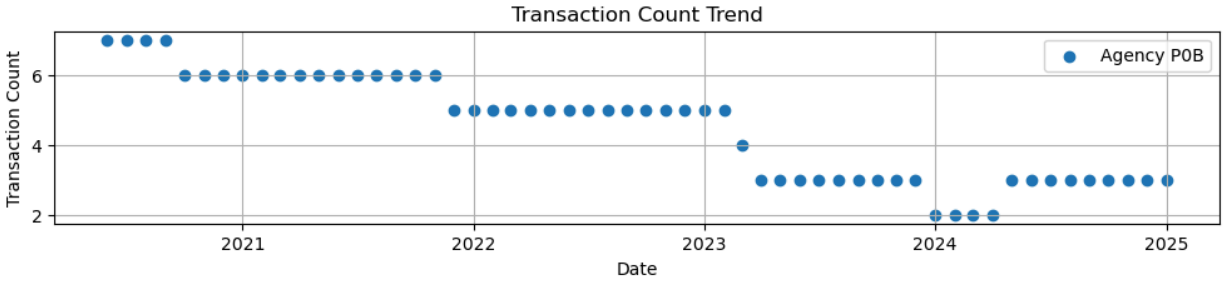
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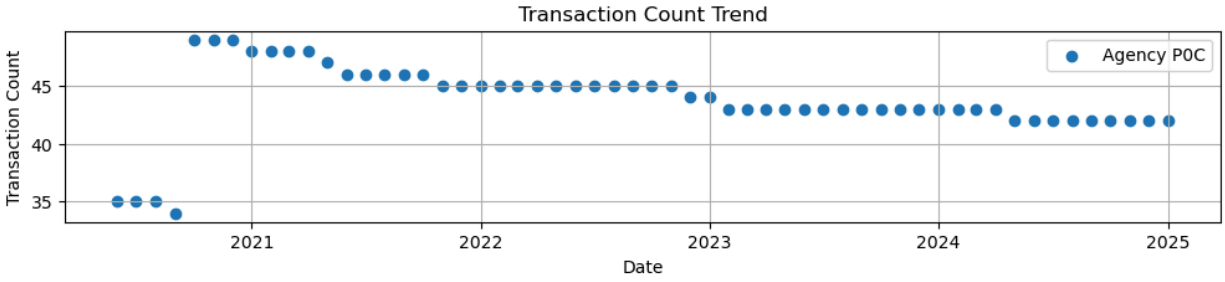
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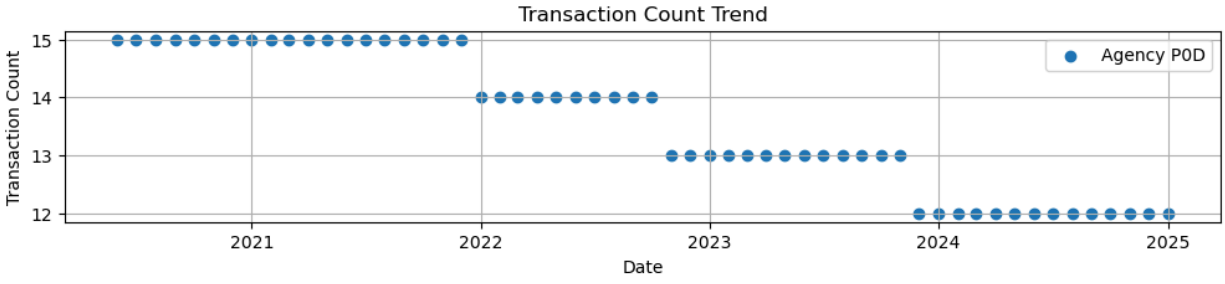
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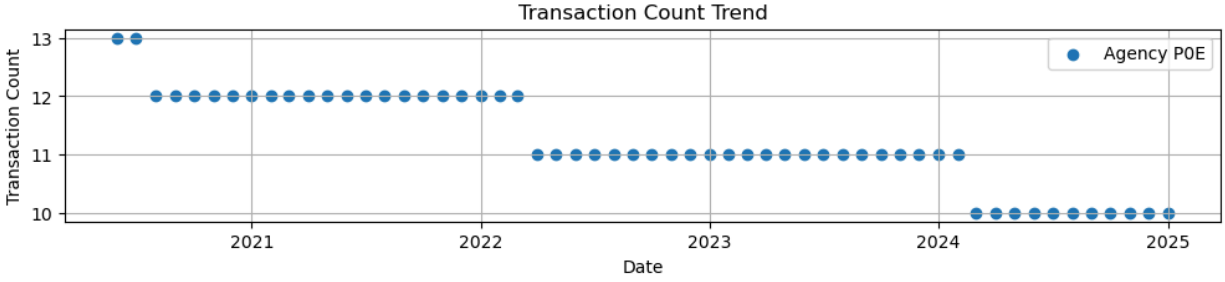
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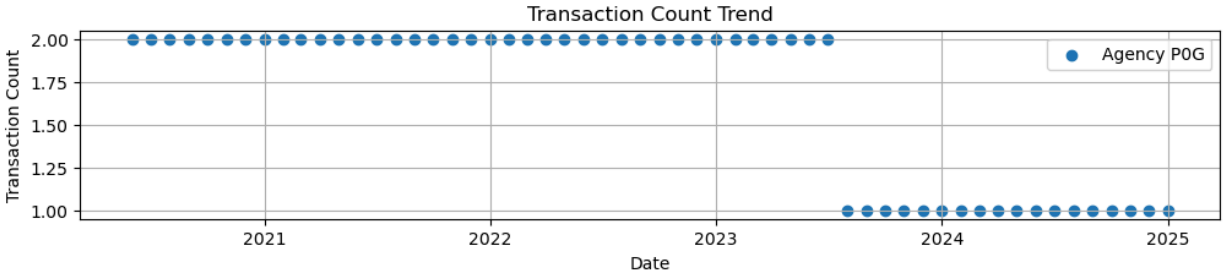
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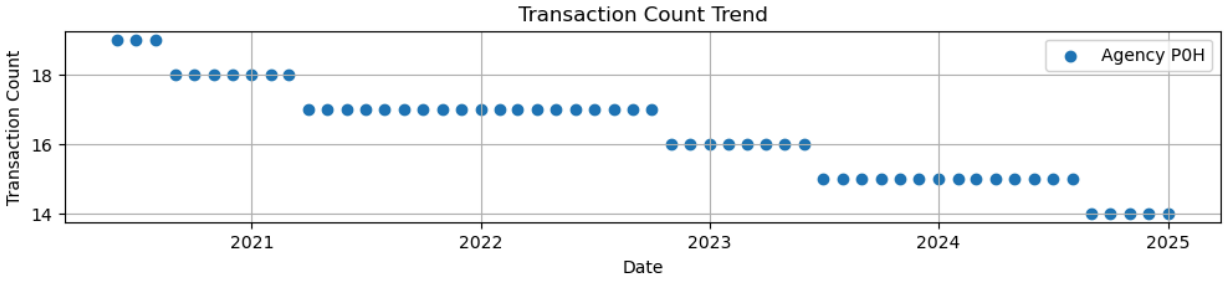
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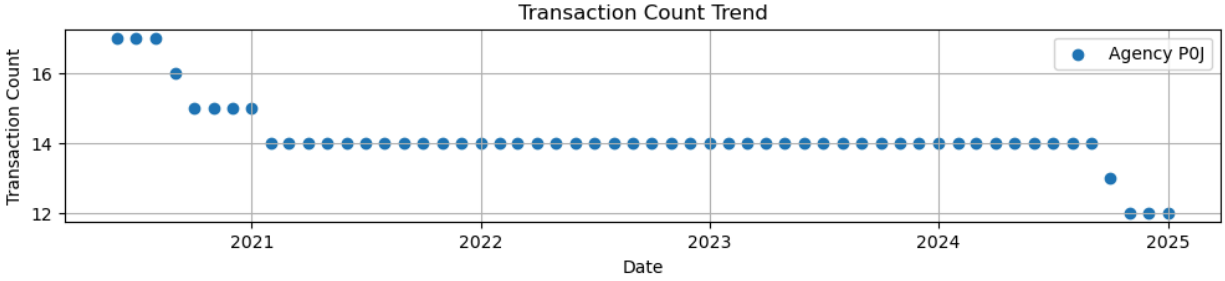
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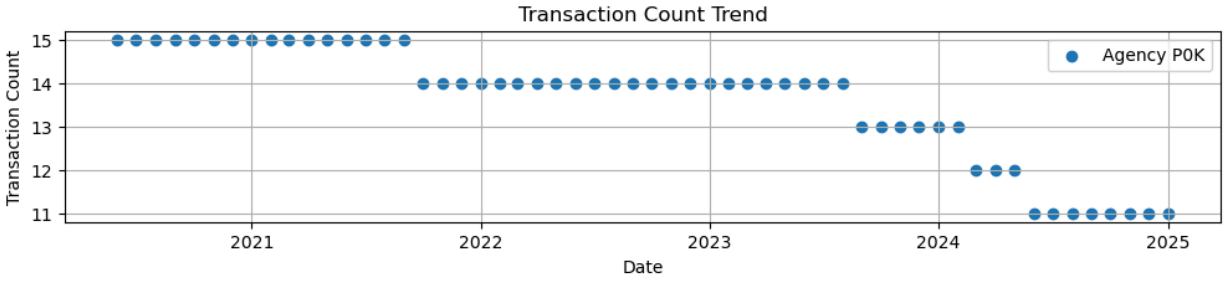
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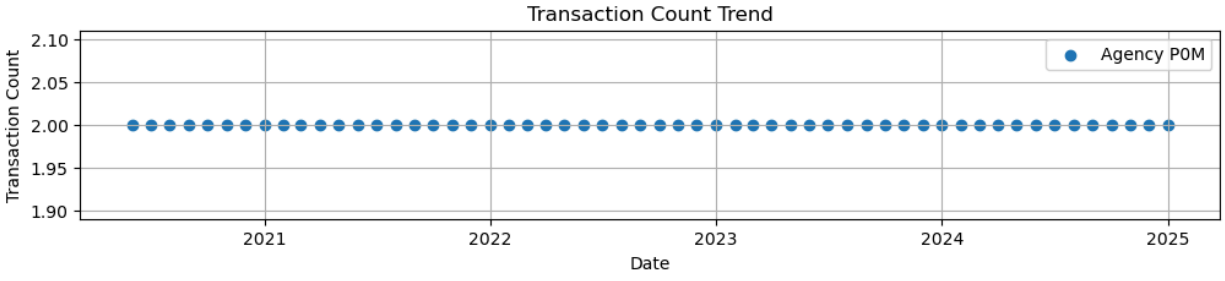
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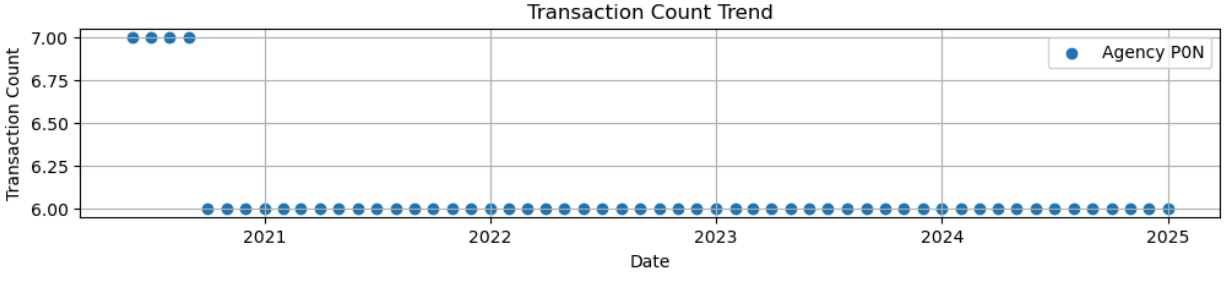
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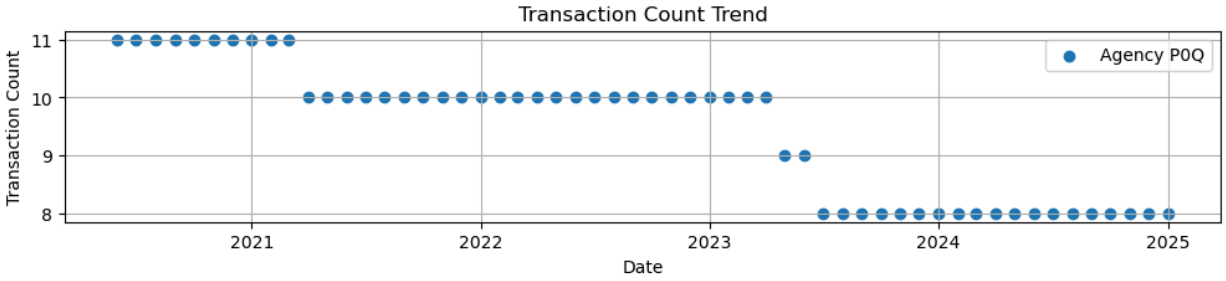
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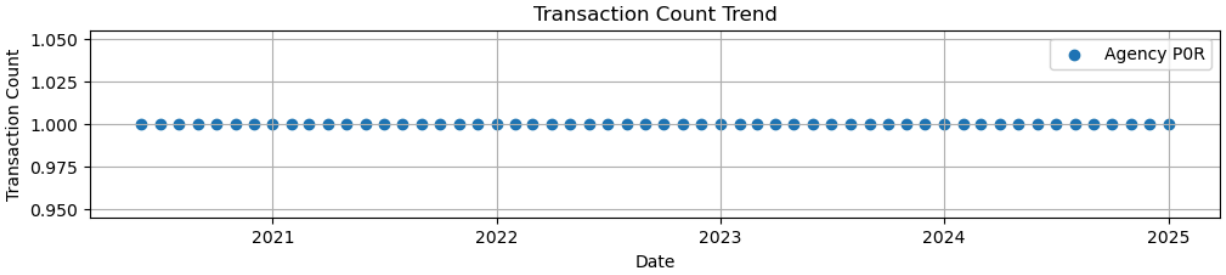
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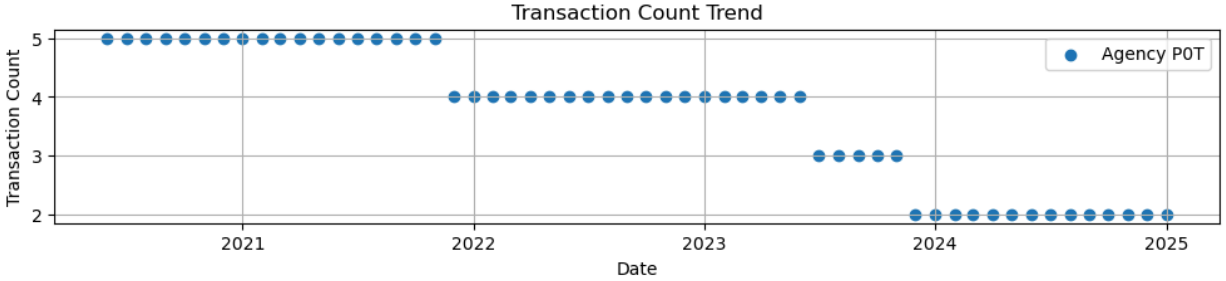
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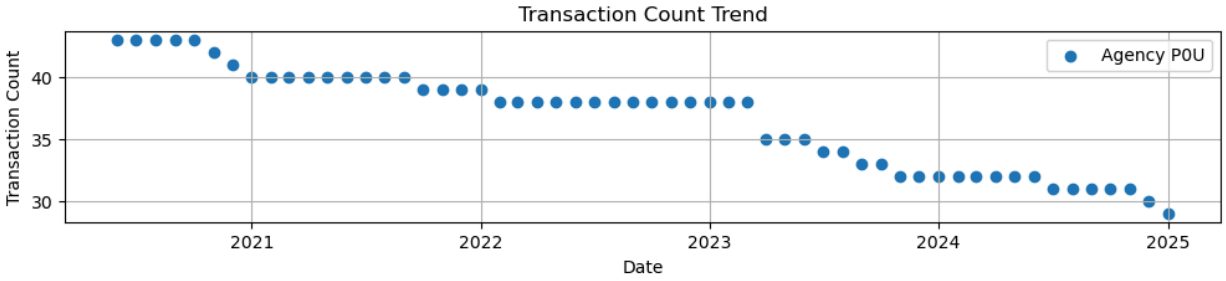
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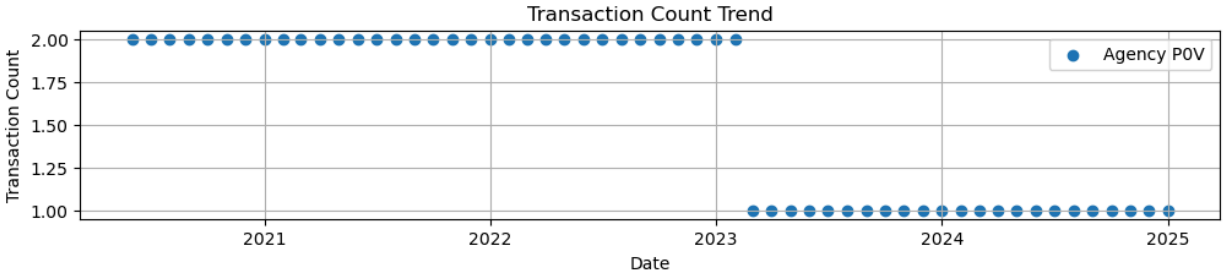
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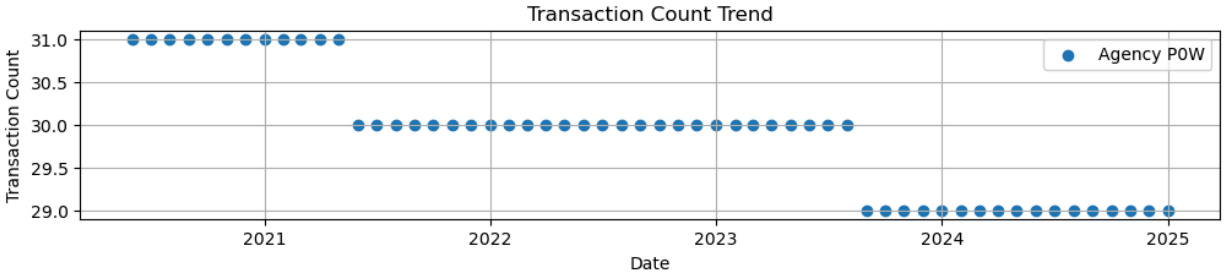
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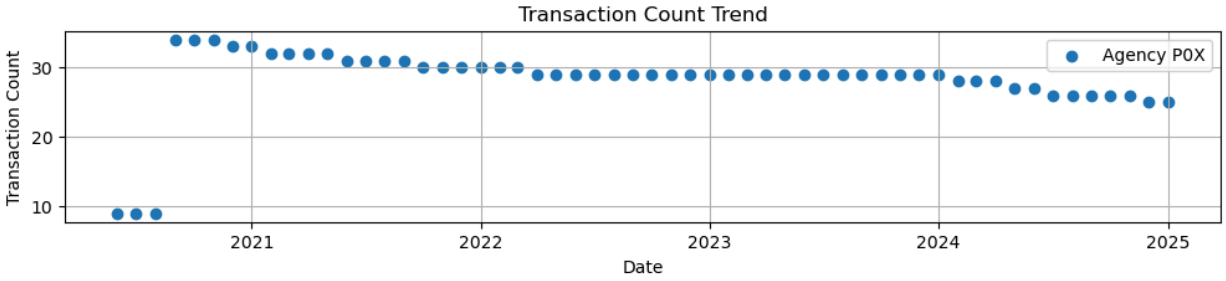
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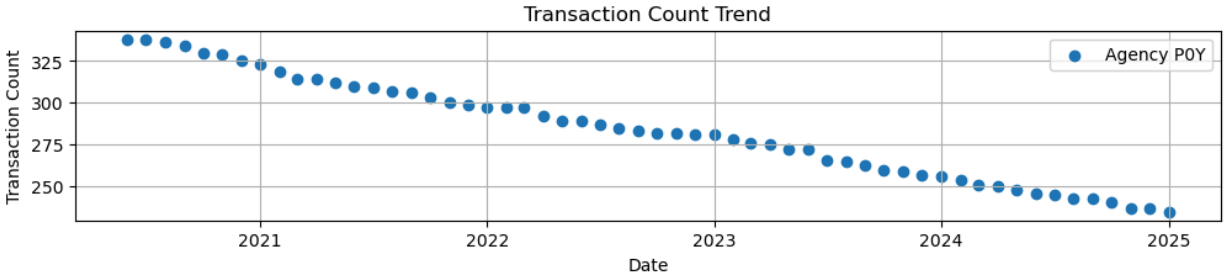
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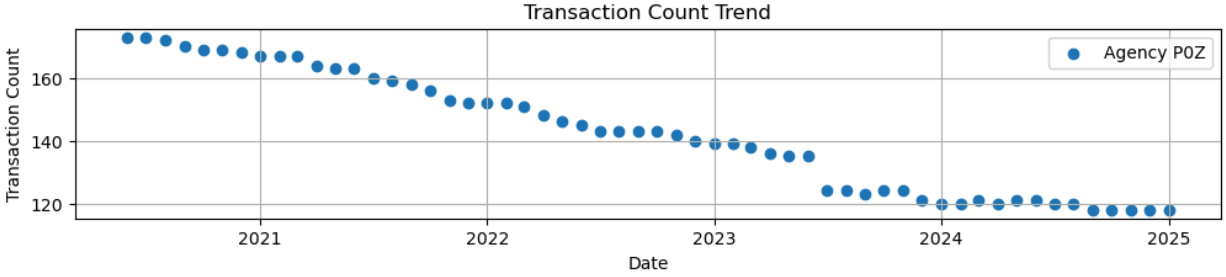
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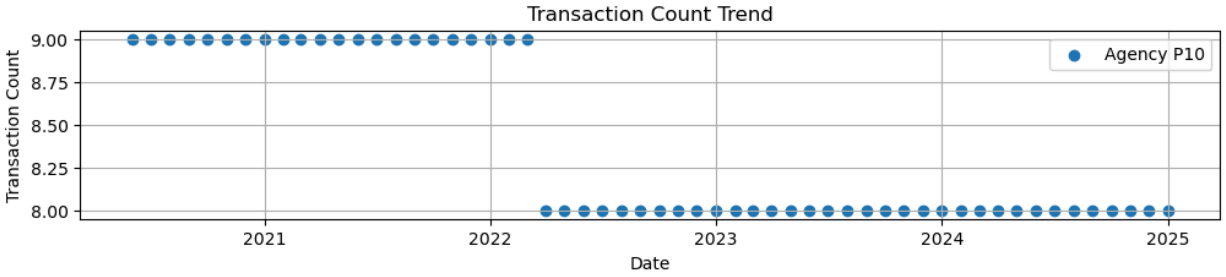
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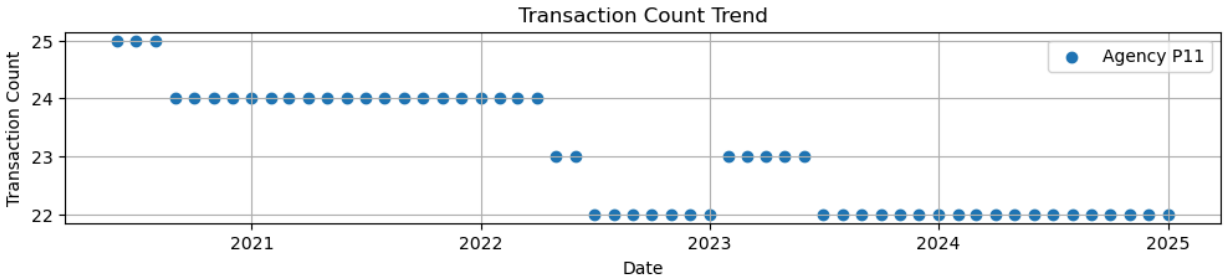
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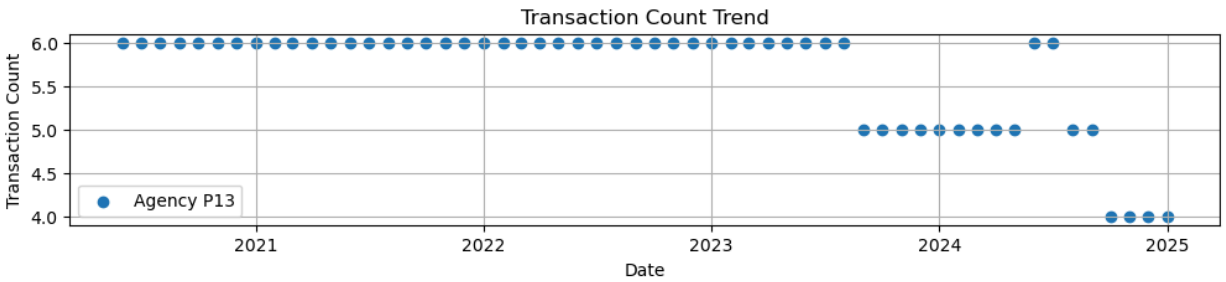
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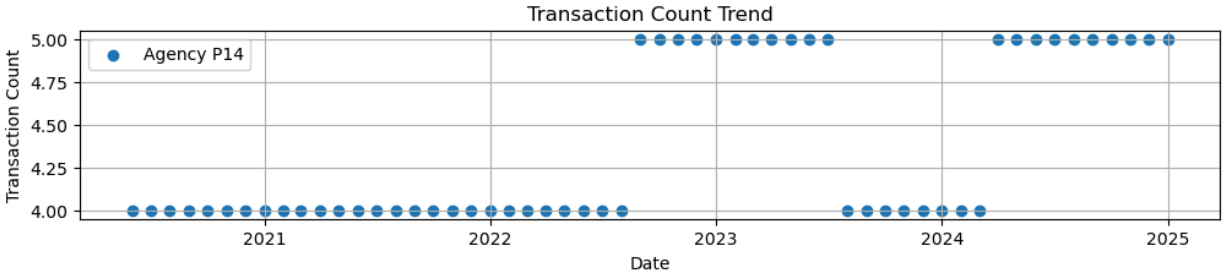
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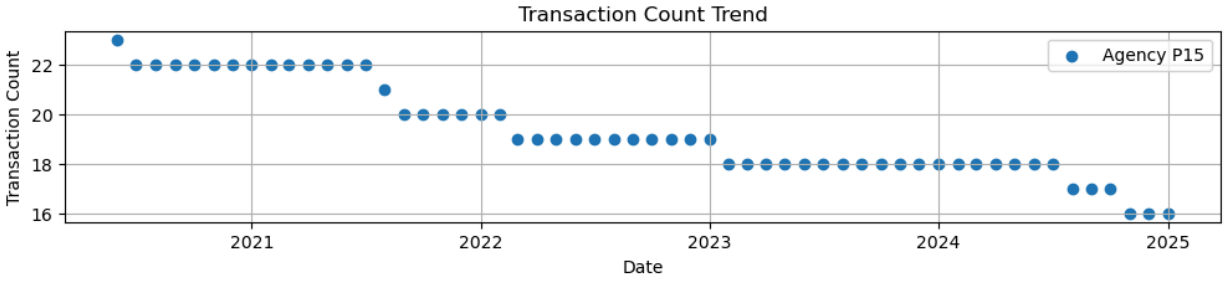
Date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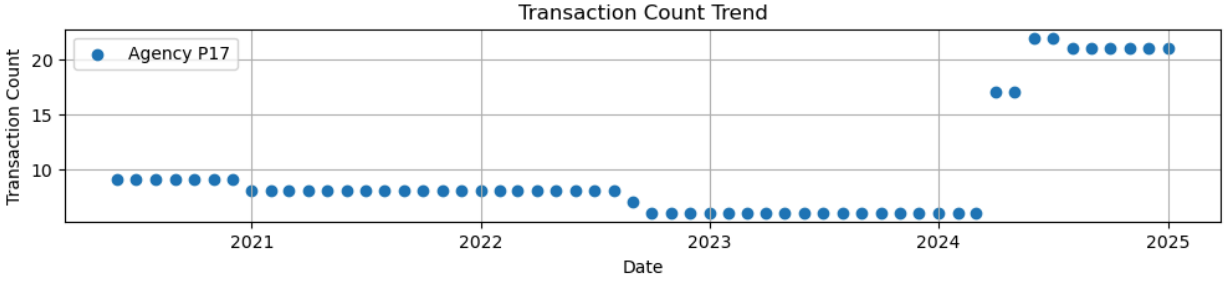
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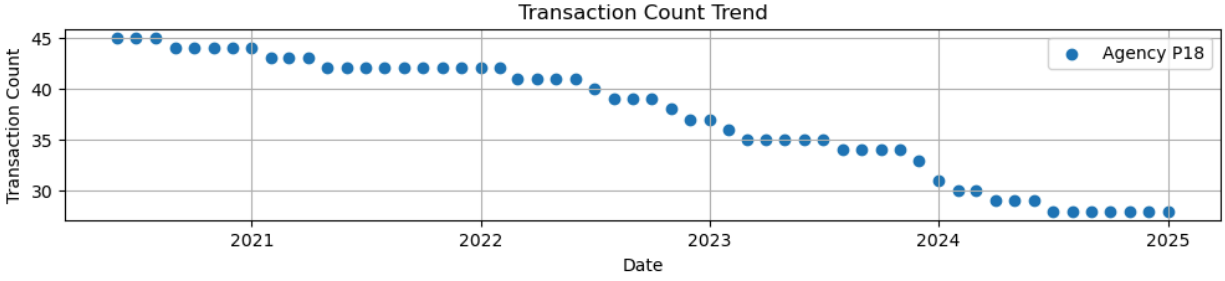
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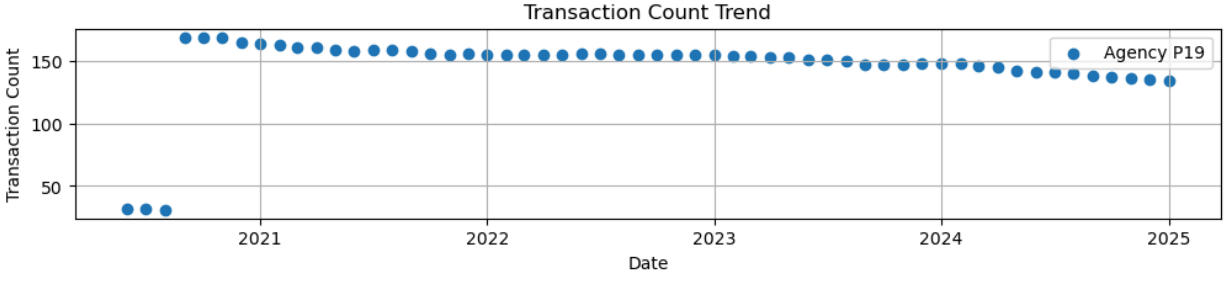
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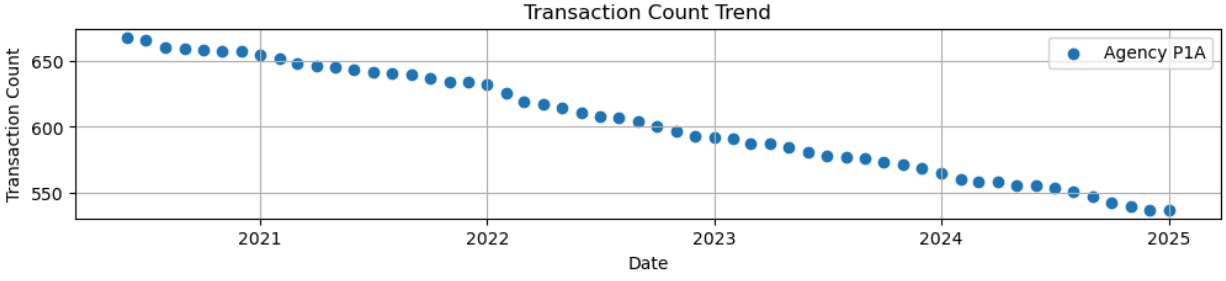
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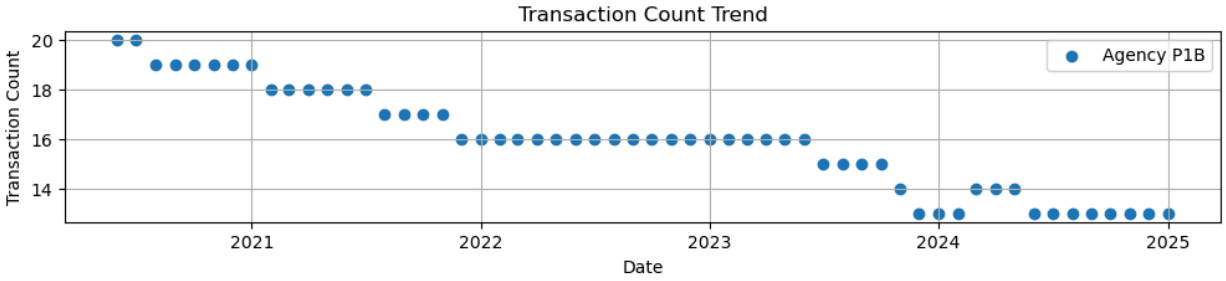
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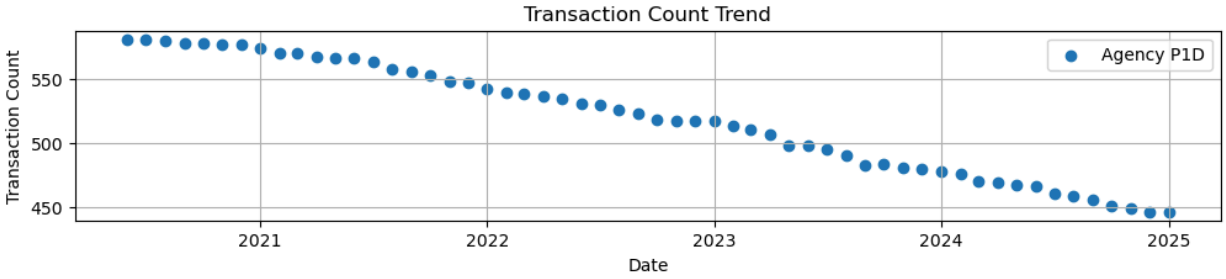
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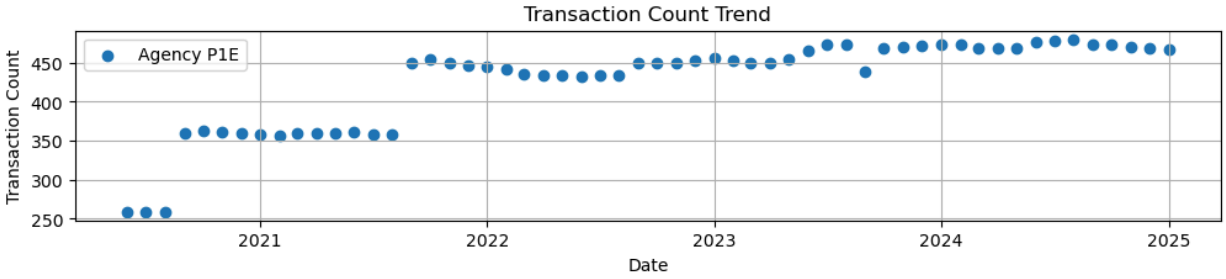
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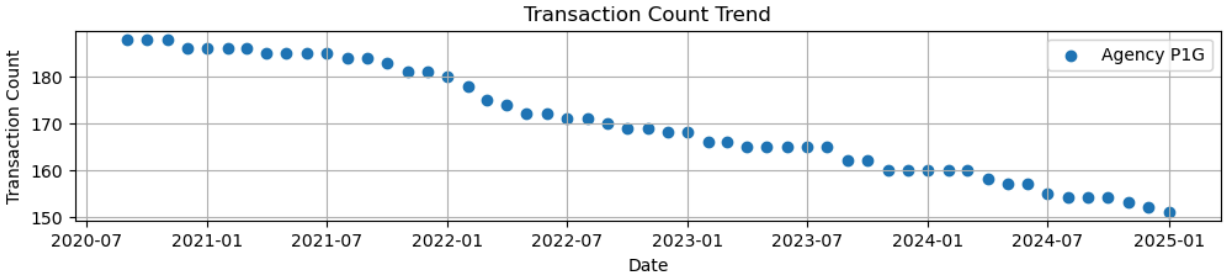
2023
2024
2025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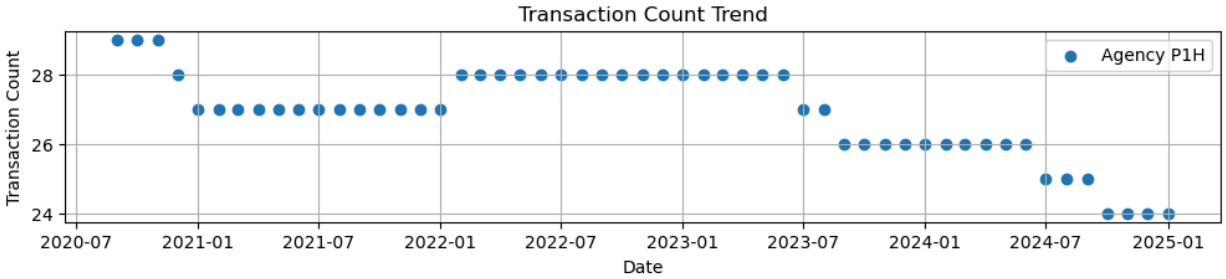
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Transaction Count
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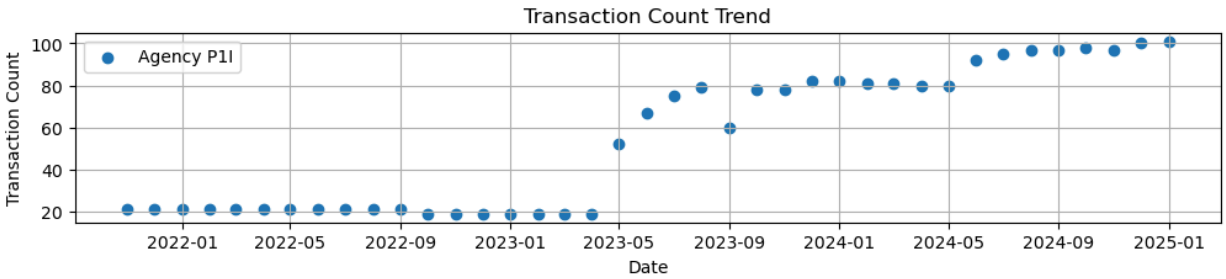
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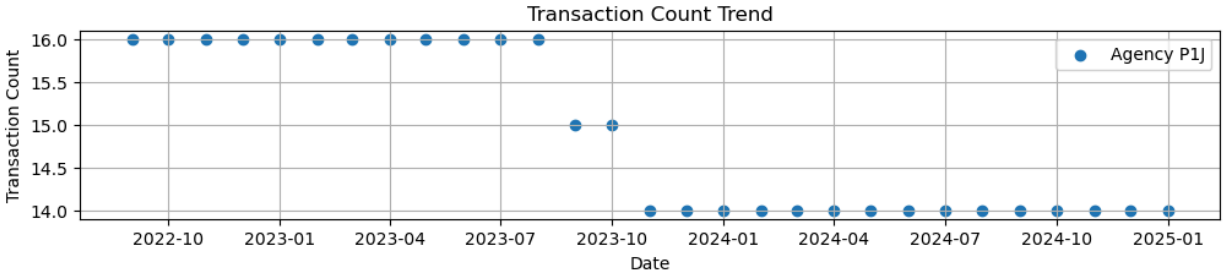
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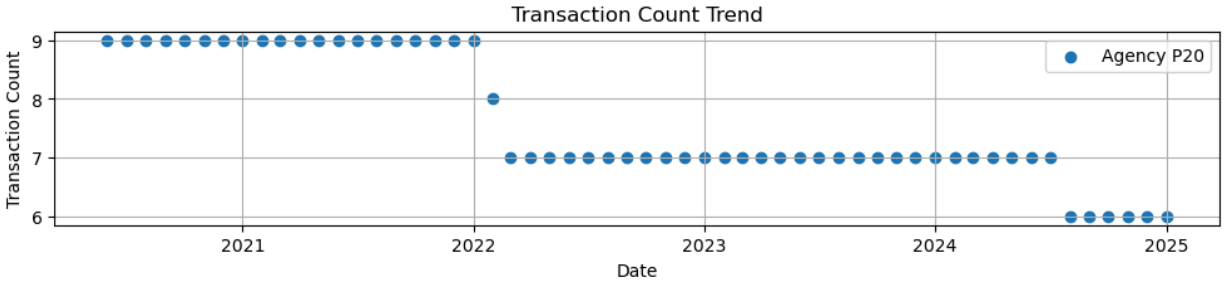
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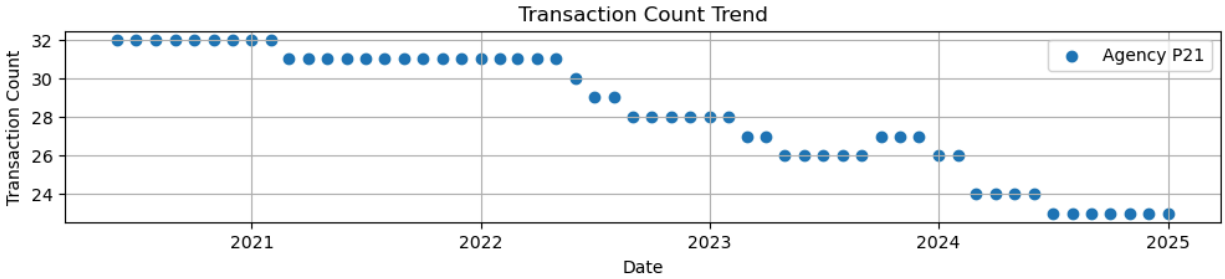
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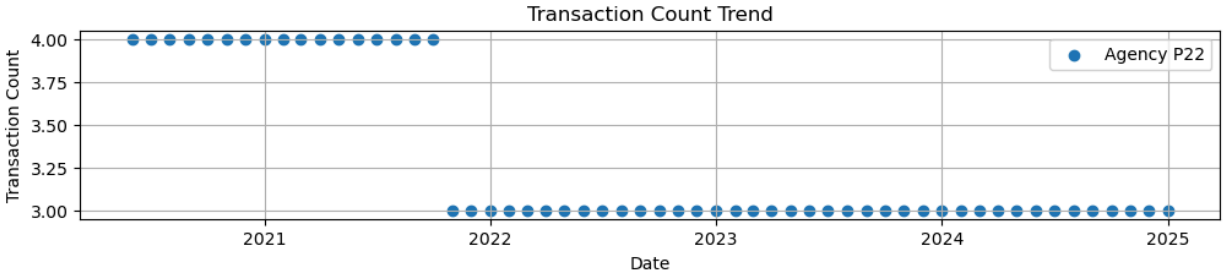
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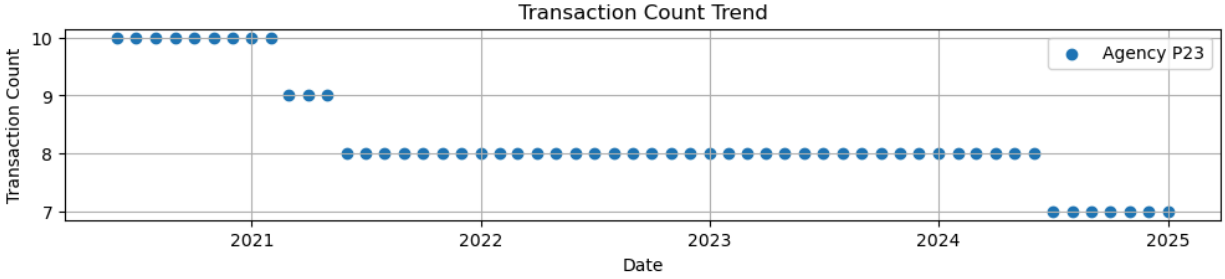
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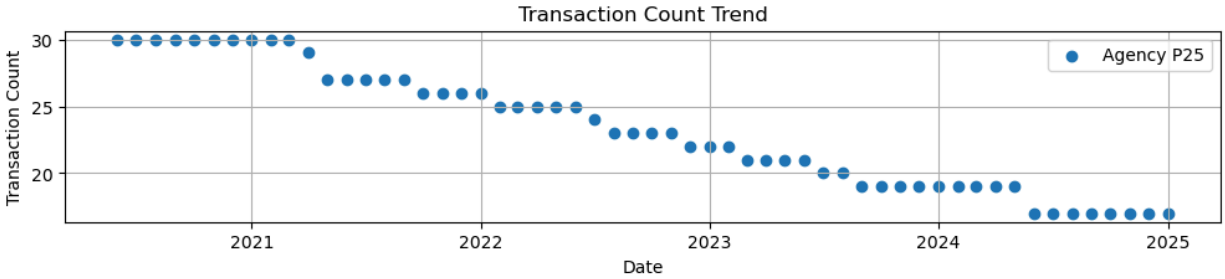
Transaction Count Trend
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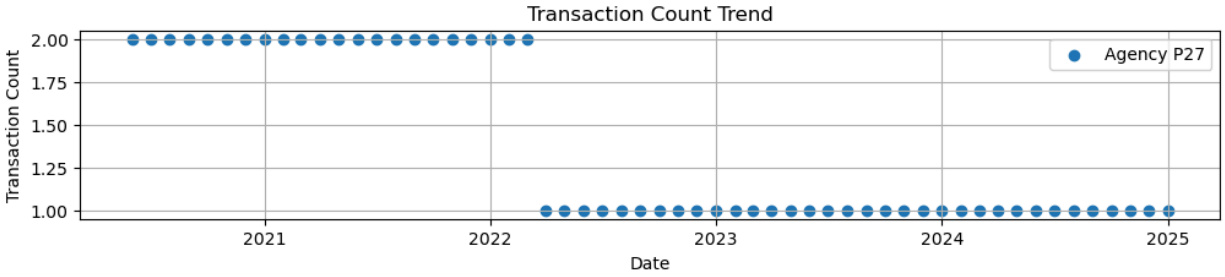
2025
Date


Transaction Count Trend
Agency P27
Transaction Count
2.00
1.75
1.50
1.25
1.00
2021
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2023
2024
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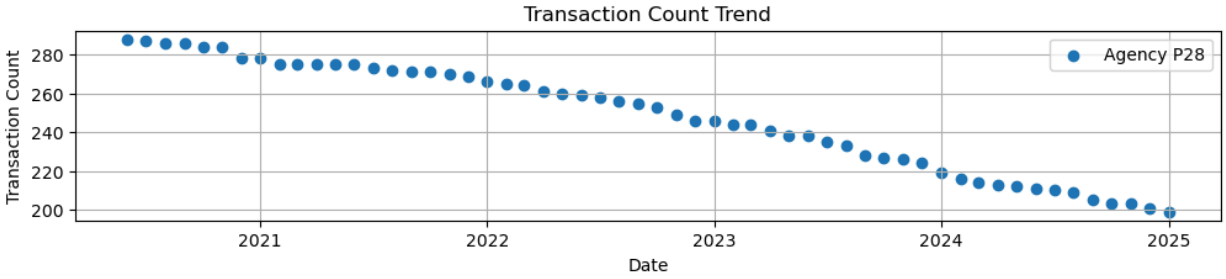
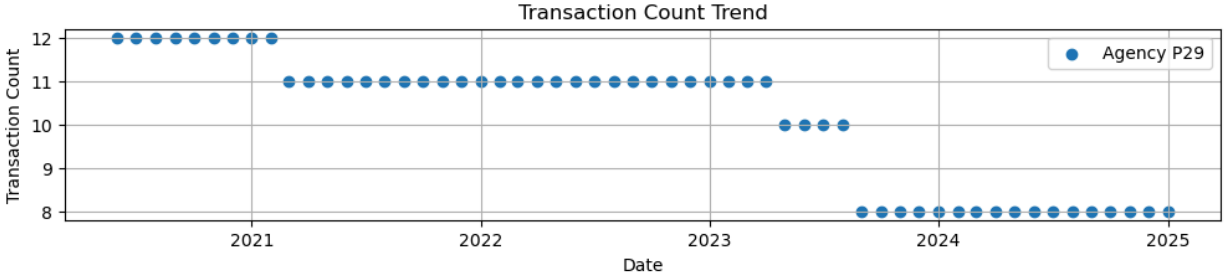
Date


Transaction Count Trend
Agency P28
Transaction Count
280
260
240
220
200
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P29
Transaction Count
12
11
10
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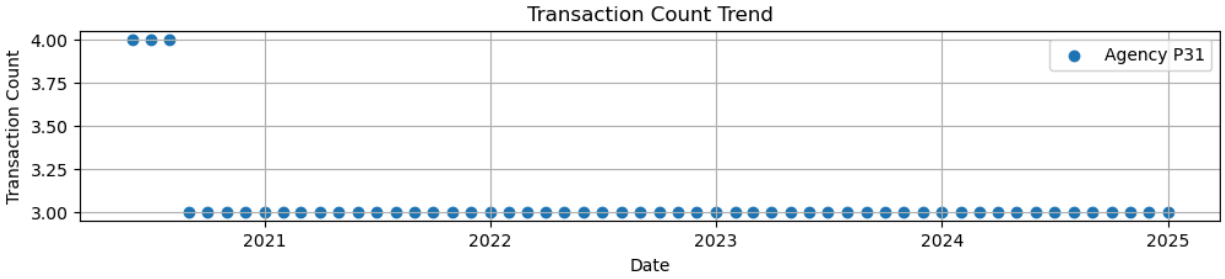
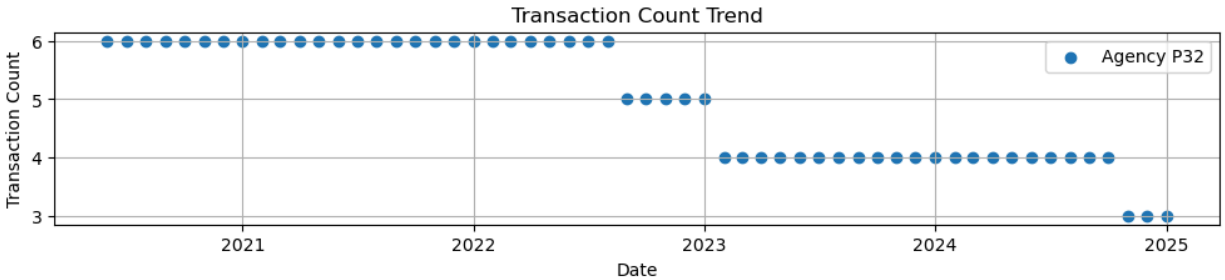
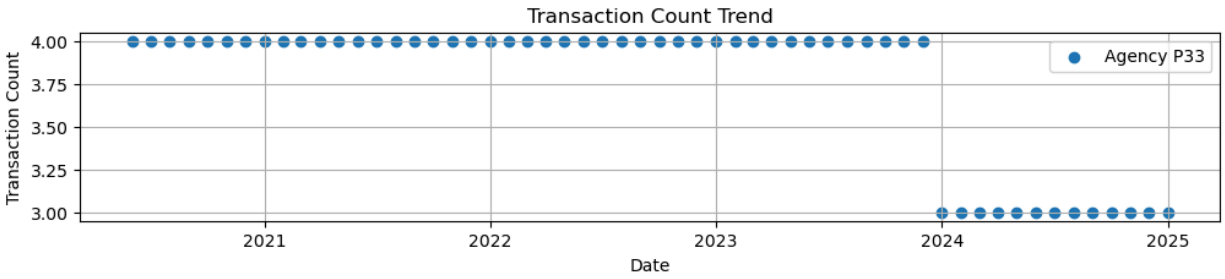
8
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P31
Transaction Count
4.00
3.75
3.50
3.25
3.00
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P32
Transaction Count
6
5
4
3
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P33
Transaction Count
4.00
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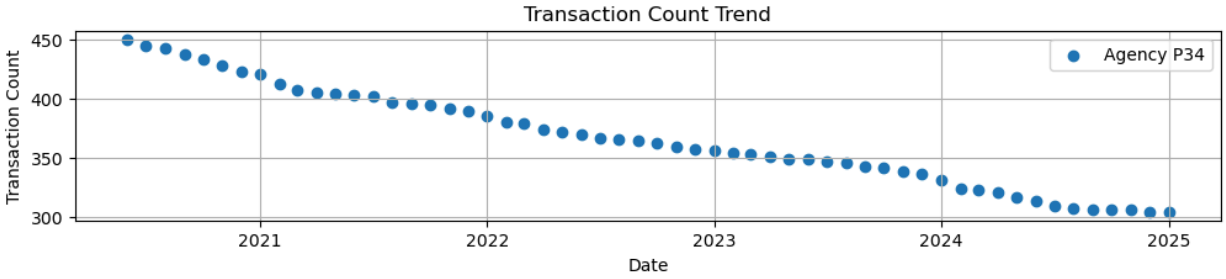
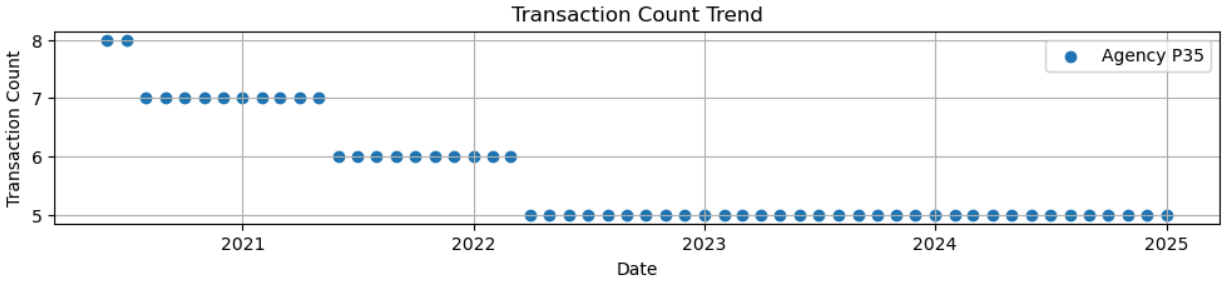
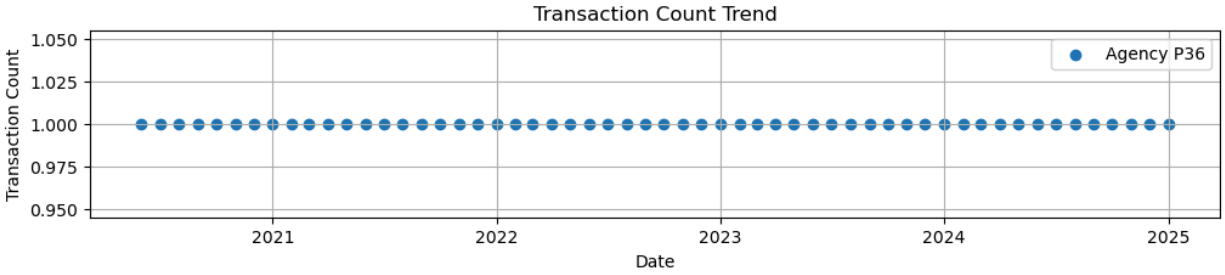
3.50
3.25
3.00
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P34
Transaction Count
Date
450
400
350
300
2021
2022
2023
2024
2025


Transaction Count Trend
Agency P35
Transaction Count
Date
8
7
6
5
2021
2022
2023
2024
2025


Transaction Count Trend
Agency P36
Transaction Count
Date
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1.025
1.000
0.975
0.950
2021
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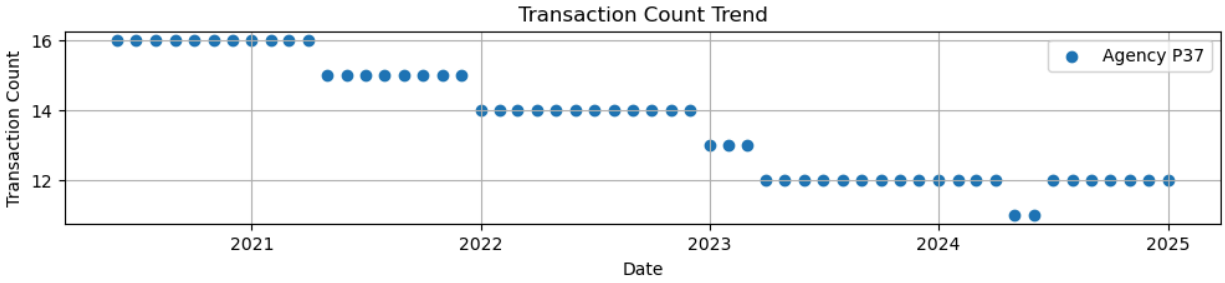
2024
2025


Transaction Count Trend
Agency P37
Transaction Count
Date
16
14
12
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2022
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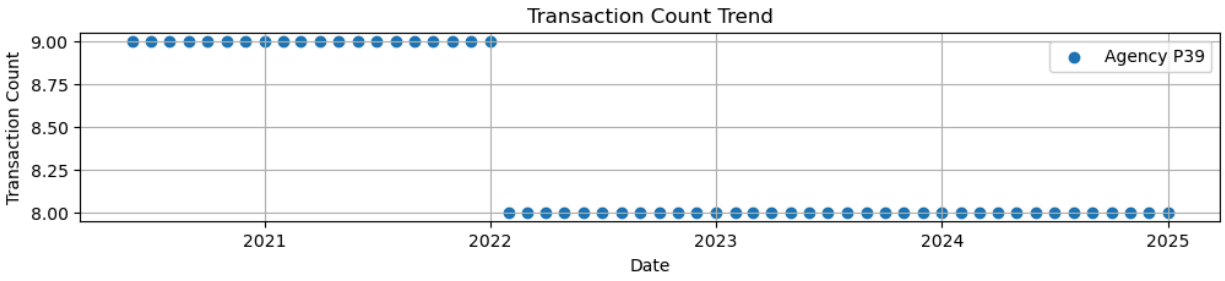
2024
2025


Transaction Count Trend
Agency P39
Transaction Count
Date
9.00
8.75
8.50
8.25
8.00
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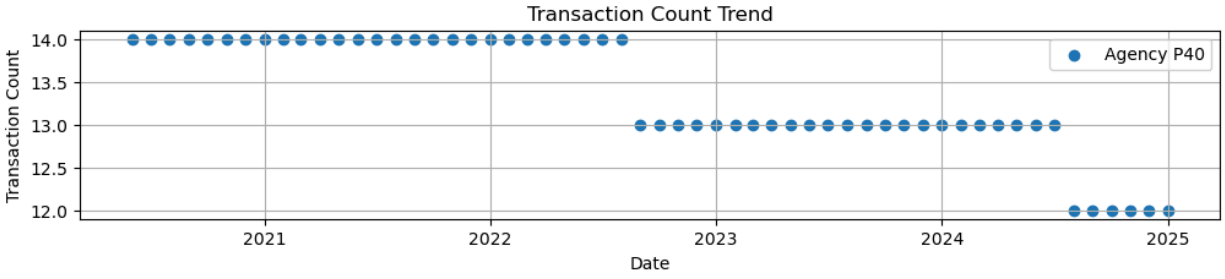
2025


Transaction Count Trend
Agency P40
Transaction Count
Date
14.0
13.5
13.0
12.5
12.0
2021
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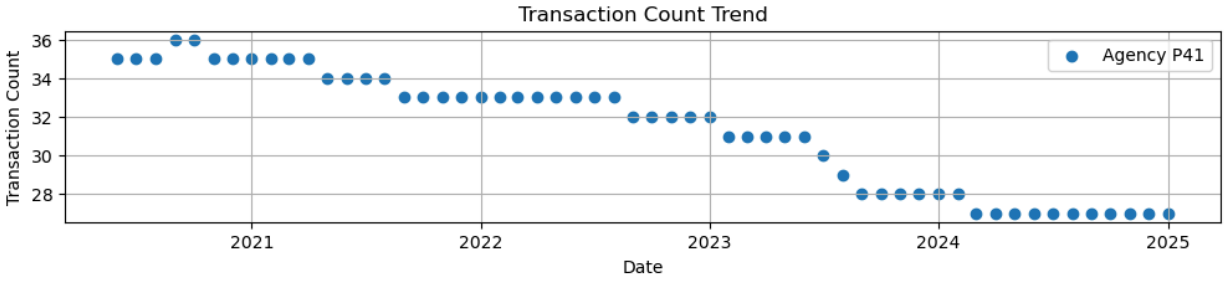
2025


Transaction Count Trend
Transaction Count
Date
Agency P41
36
34
32
30
28
2021
2022
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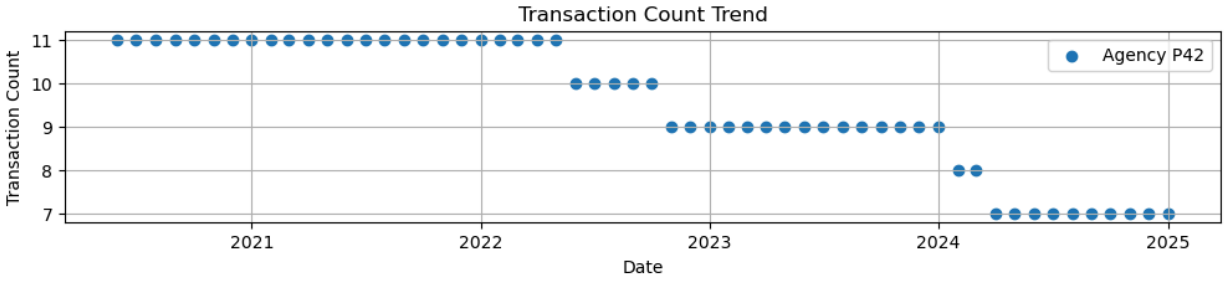
2024
2025


Transaction Count Trend
Transaction Count
Date
Agency P42
11
10
9
8
7
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2022
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2024
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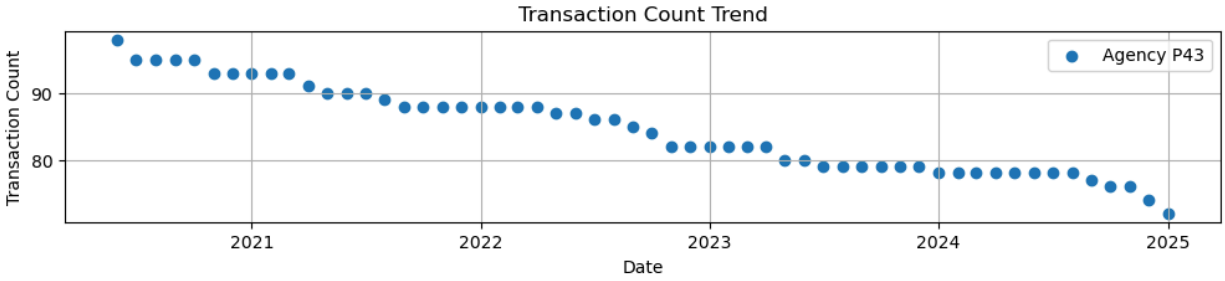
Transaction Count Trend
Transaction Count
Date
Agency P43
90
80
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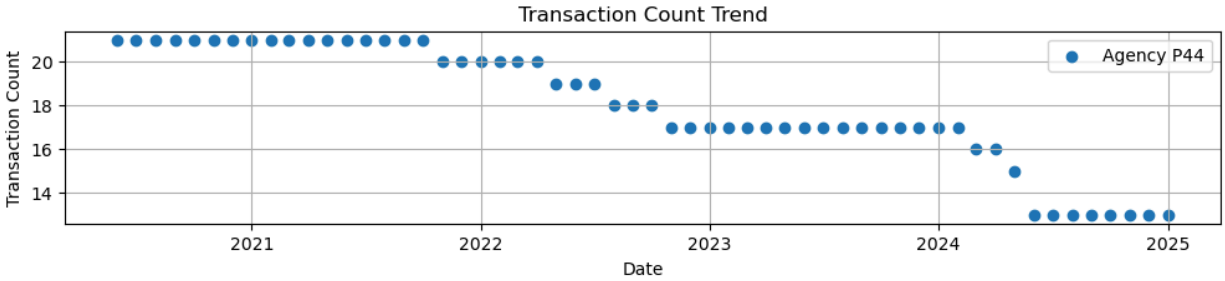
Transaction Count Trend
Transaction Count
Date
Agency P44
20
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14
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2022
2023
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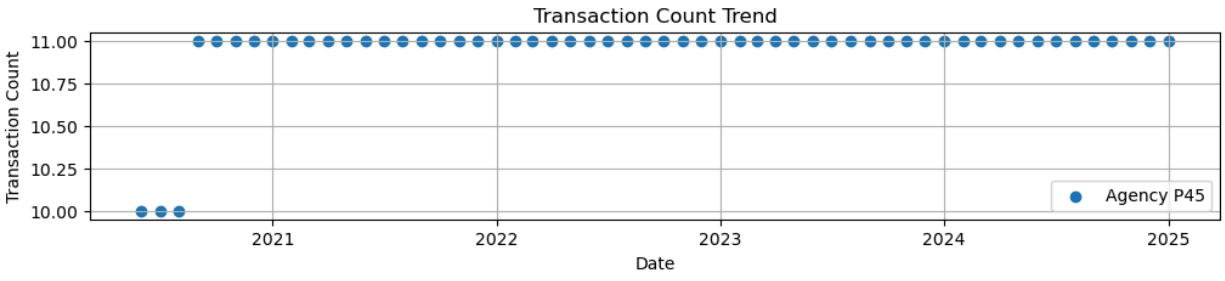
2025


Transaction Count Trend
Transaction Count
Date
Agency P45
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10.25
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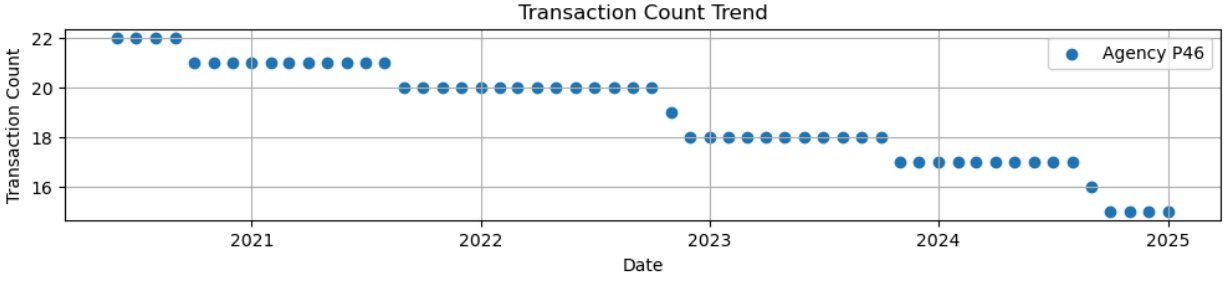
2021
2022
2023
2024
2025


Transaction Count Trend
Transaction Count
Date
Agency P46
22
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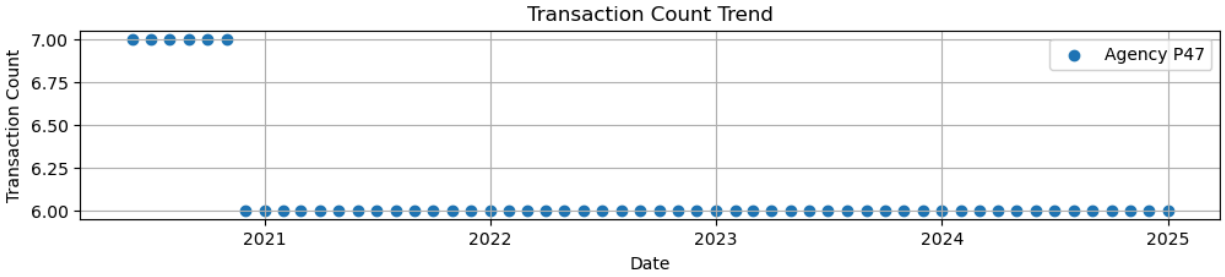
2023
2024
2025


Transaction Count Trend
Agency P47
Transaction Count
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6.75
6.50
6.25
6.00
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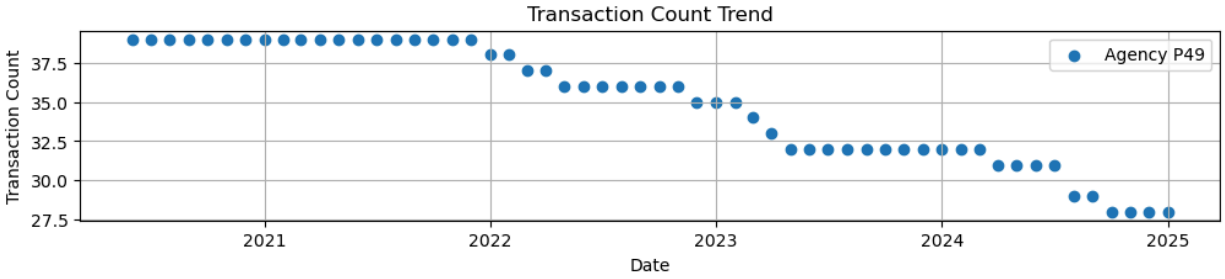
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P49
Transaction Count
37.5
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32.5
30.0
27.5
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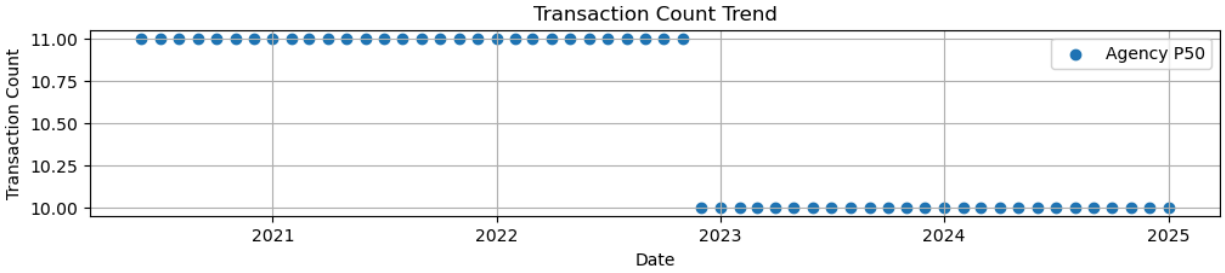
2023
2024
2025
Date


Transaction Count Trend
Agency P50
Transaction Count
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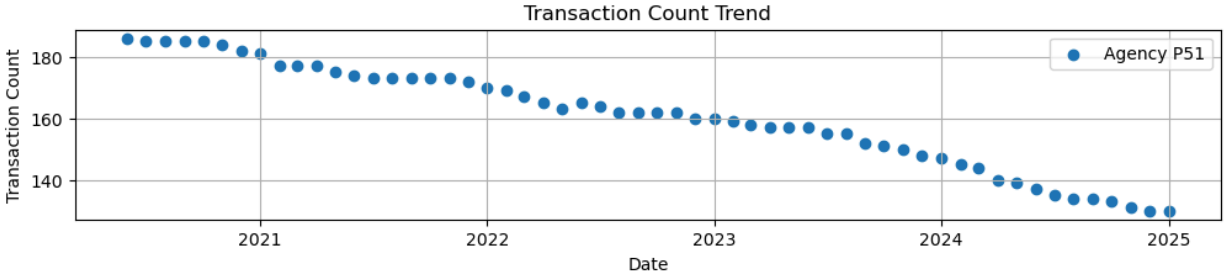
10.75
10.50
10.25
10.00
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P51
Transaction Count
180
160
140
2021
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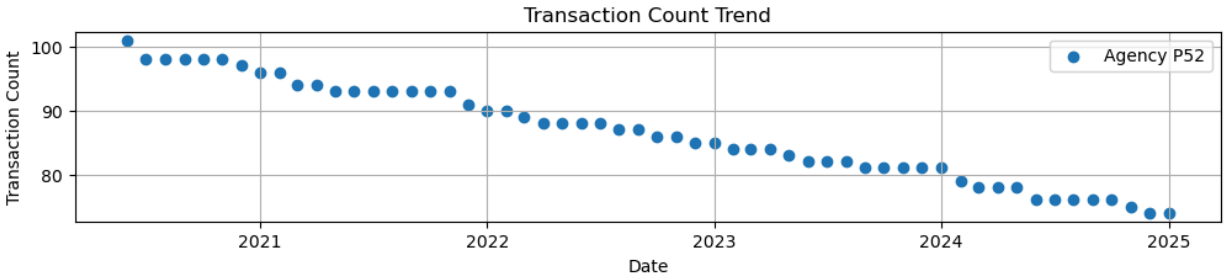
2023
2024
2025
Date


Transaction Count Trend
Agency P52
Transaction Count
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2024
2025
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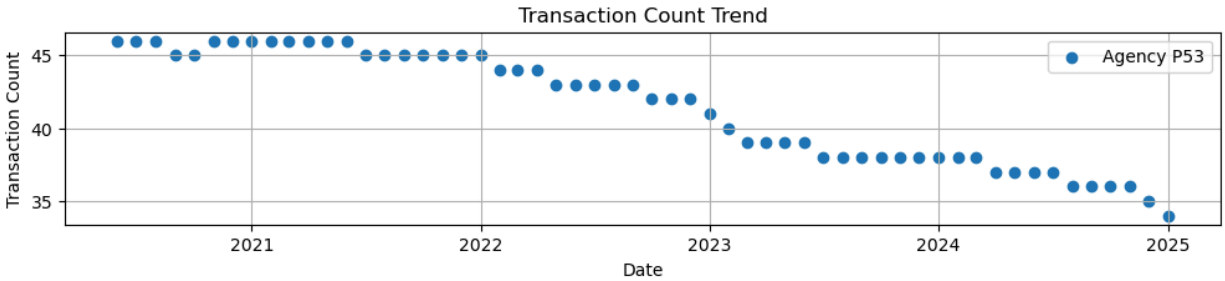
Transaction Count Trend
Agency P53
Transaction Count
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35
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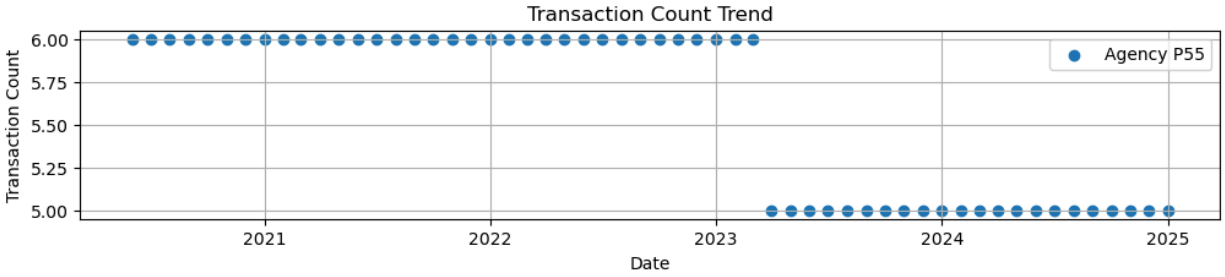
2024
2025
Date


Transaction Count Trend
Agency P55
Transaction Count
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5.25
5.00
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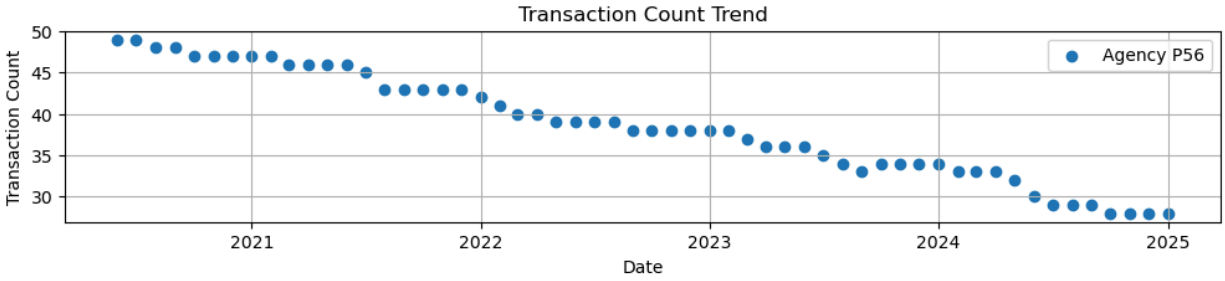
Transaction Count Trend
Agency P56
Transaction Count
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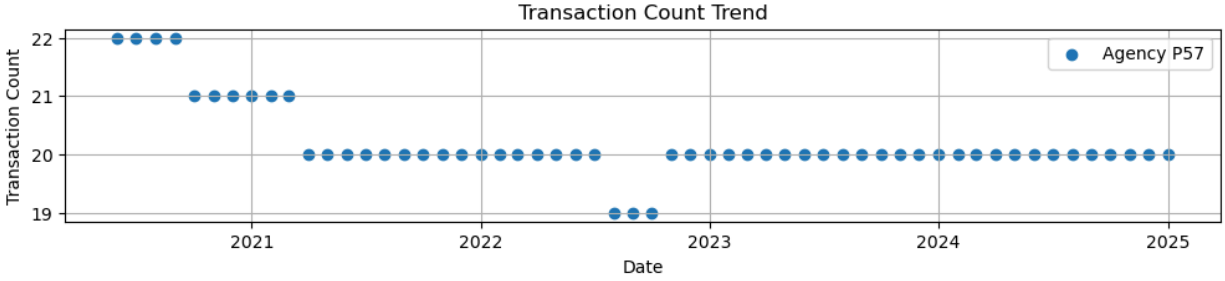
Date


Transaction Count Trend
Agency P57
Transaction Count
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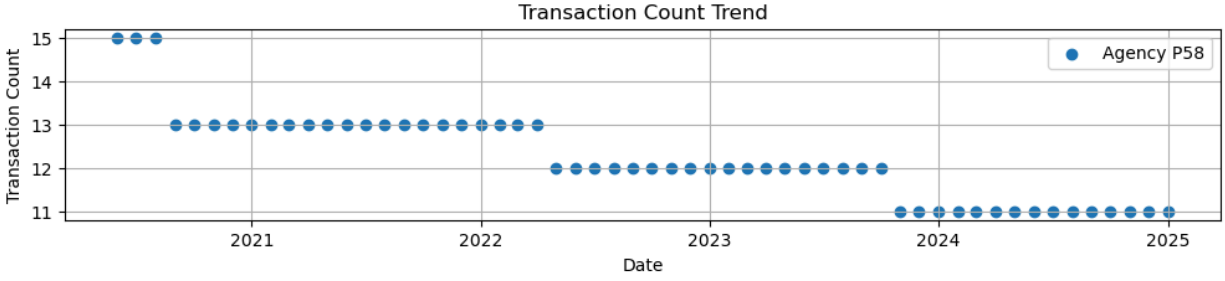
Date


Transaction Count Trend
Agency P58
Transaction Count
15
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11
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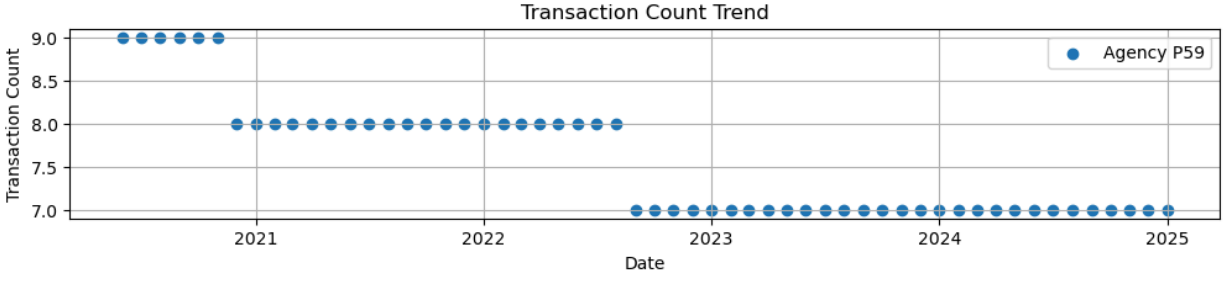
Date


Transaction Count Trend
Agency P59
Transaction Count
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7.5
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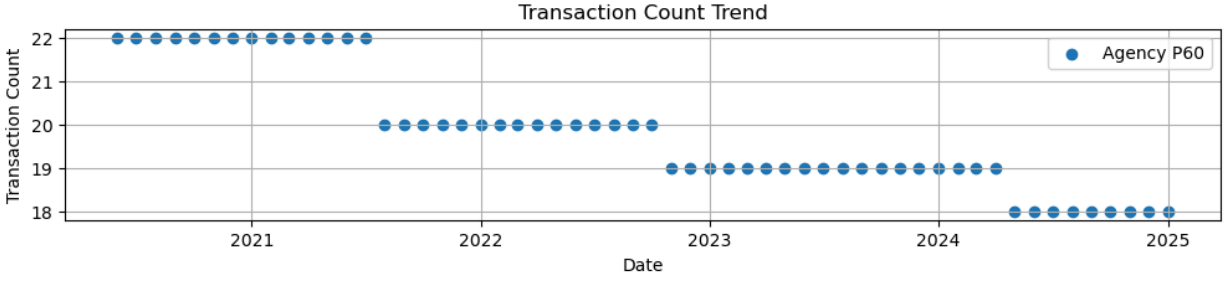
2024
2025
Date


Transaction Count Trend
Agency P60
Transaction Count
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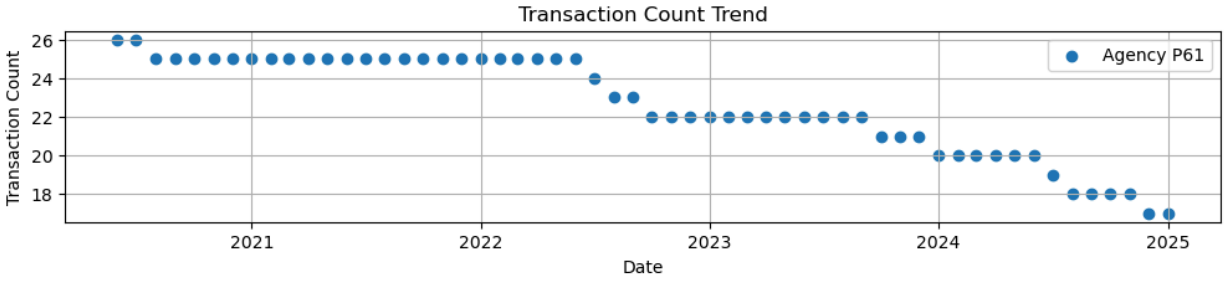
Transaction Count Trend
Agency P61
Transaction Count
Date
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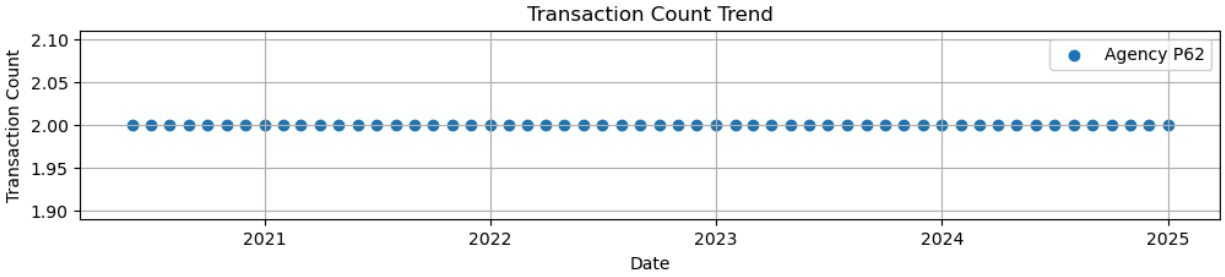
2024
2025


Transaction Count Trend
Agency P62
Transaction Count
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2.00
1.95
1.90
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2023
2024
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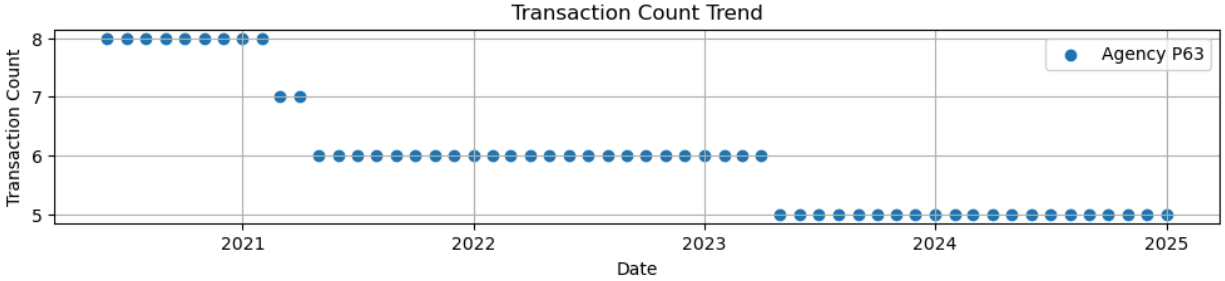
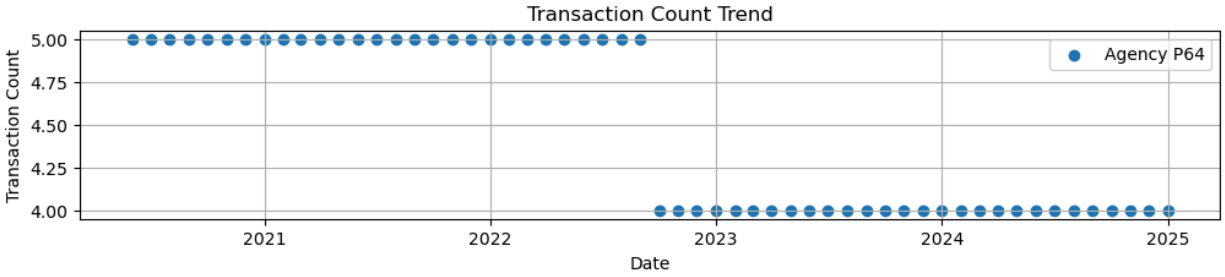

Transaction Count Trend
Agency P63
Transaction Count
Date
8
7
6
5
2021
2022
2023
2024
2025


Transaction Count Trend
Agency P64
Transaction Count
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5.00
4.75
4.50
4.25
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2022
2023
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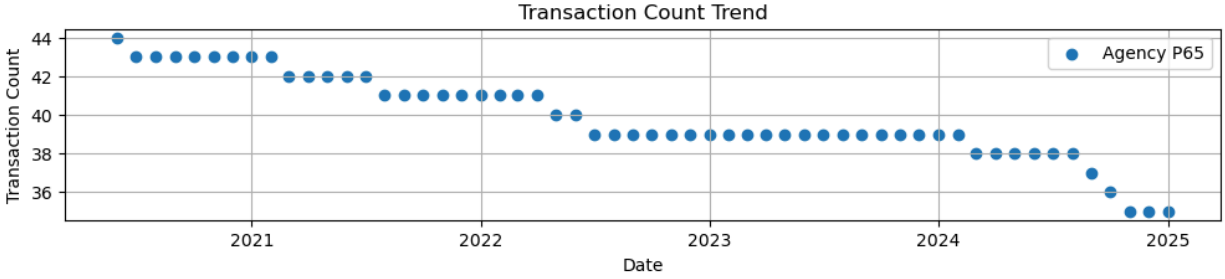
Transaction Count Trend
Agency P65
Transaction Count
Date
44
42
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38
36
2021
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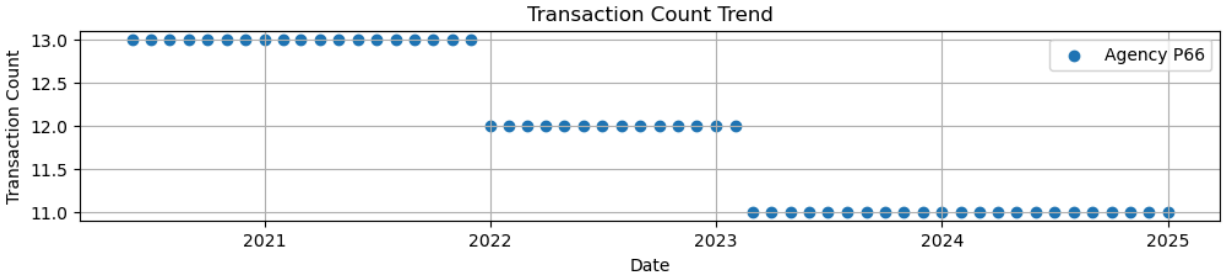
Transaction Count Trend
Agency P66
Transaction Count
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2023
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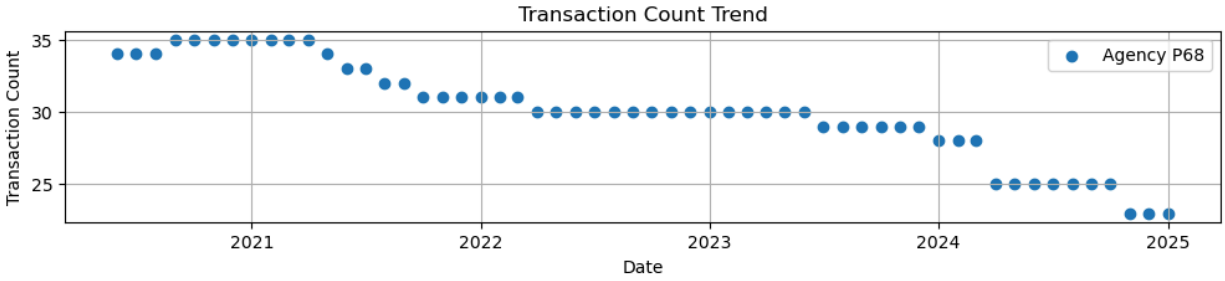
Transaction Count Trend
Agency P68
Transaction Count
35
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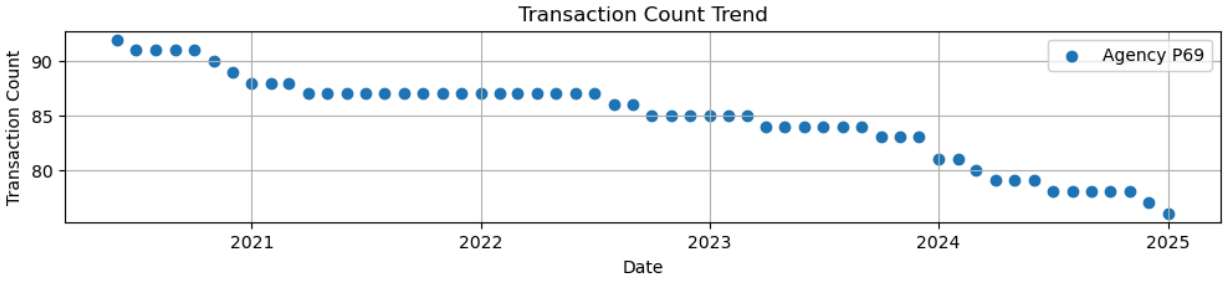
2024
2025
Date


Transaction Count Trend
Agency P69
Transaction Count
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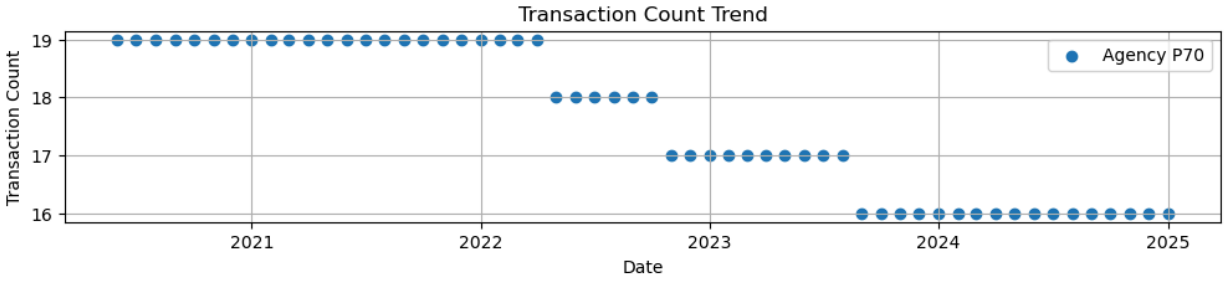
2024
2025
Date


Transaction Count Trend
Agency P70
Transaction Count
19
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16
2021
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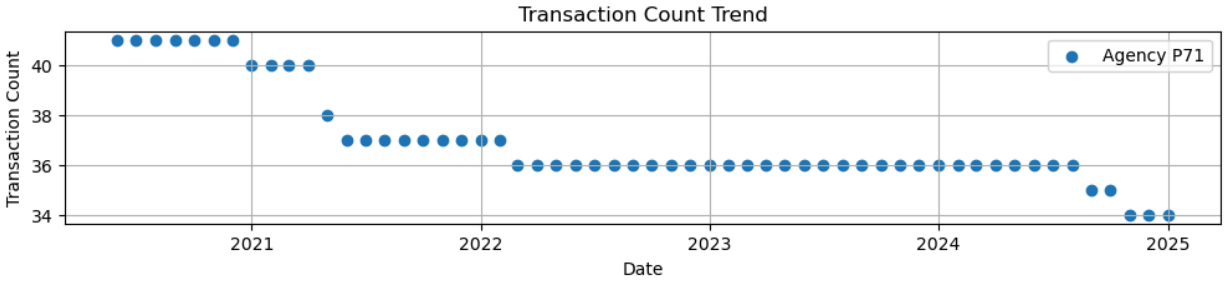
2024
2025
Date


Transaction Count Trend
Agency P71
Transaction Count
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38
36
34
2021
2022
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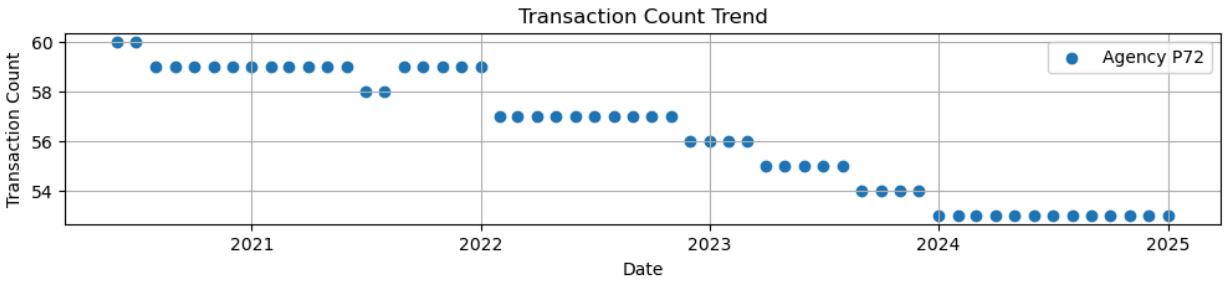
2025
Date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Agency P72
Transaction Count
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58
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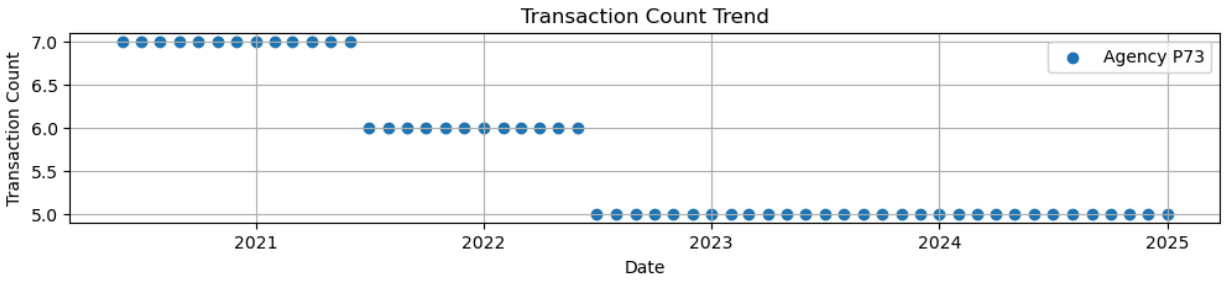
2025
Date


Transaction Count Trend
Agency P73
Transaction Count
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5.5
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2021
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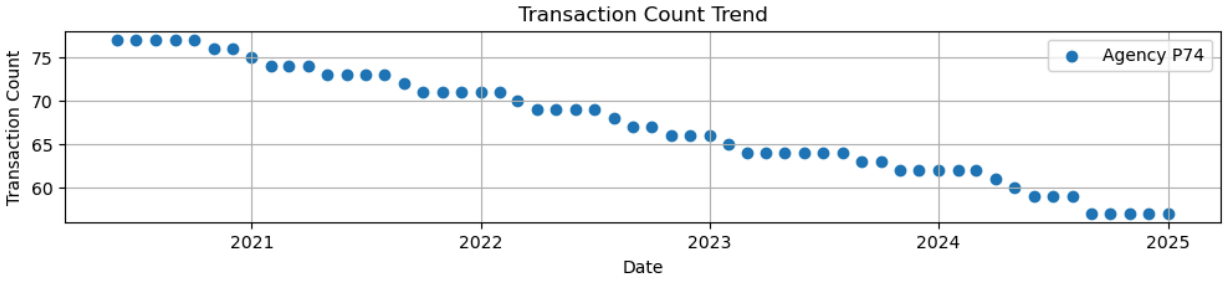
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Agency P74
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75
70
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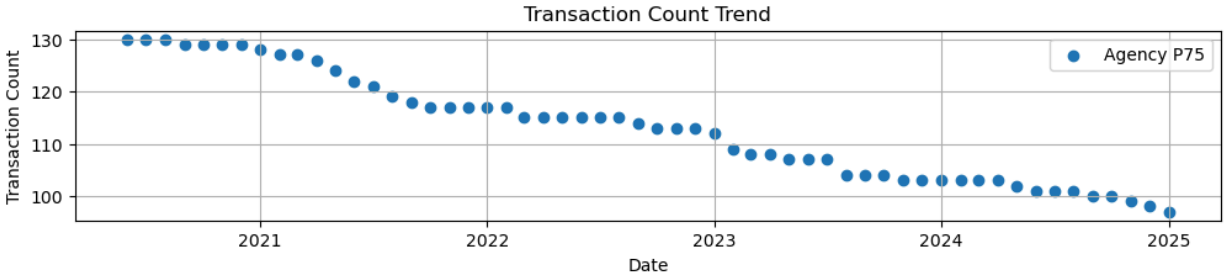
Transaction Count Trend
Agency P75
Transaction Count
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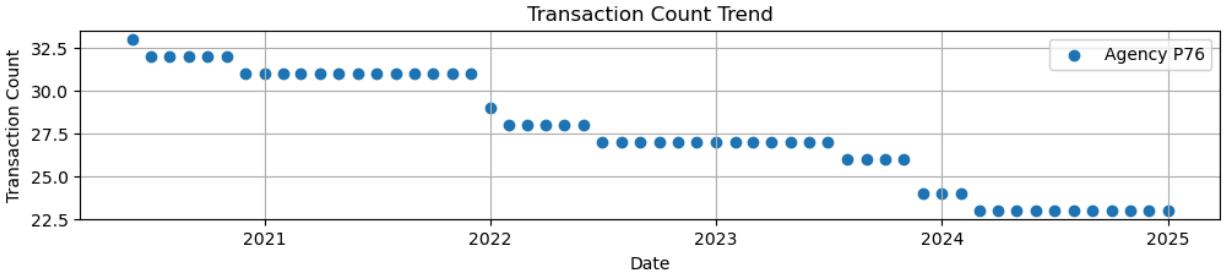
Date


Transaction Count Trend
Agency P76
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25.0
22.5
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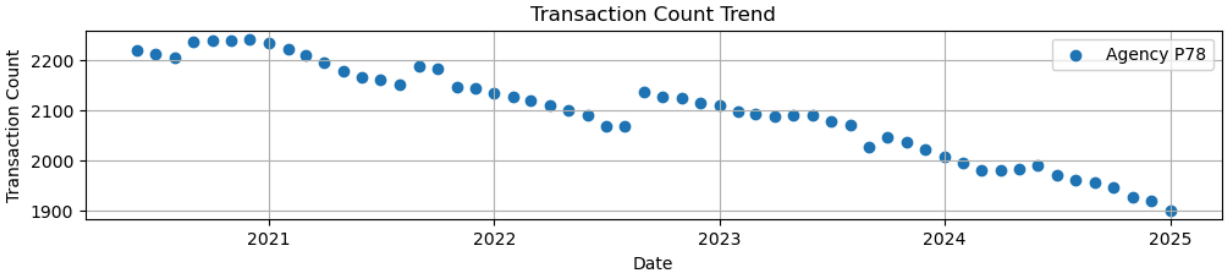
2024
2025
Date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Agency P78
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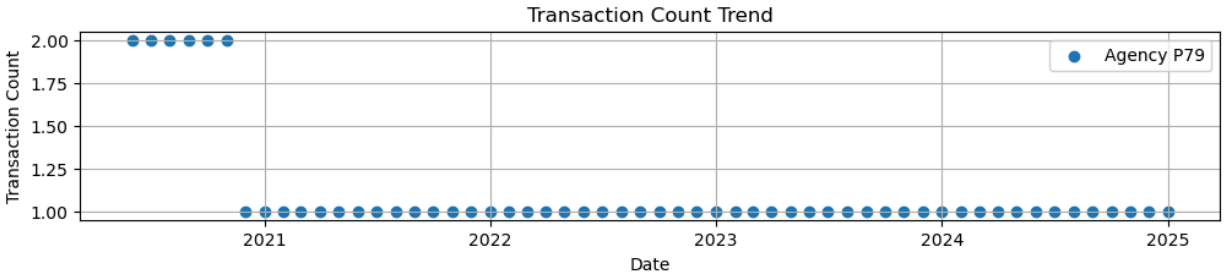
Transaction Count Trend
Agency P79
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1.25
1.00
2021
2022
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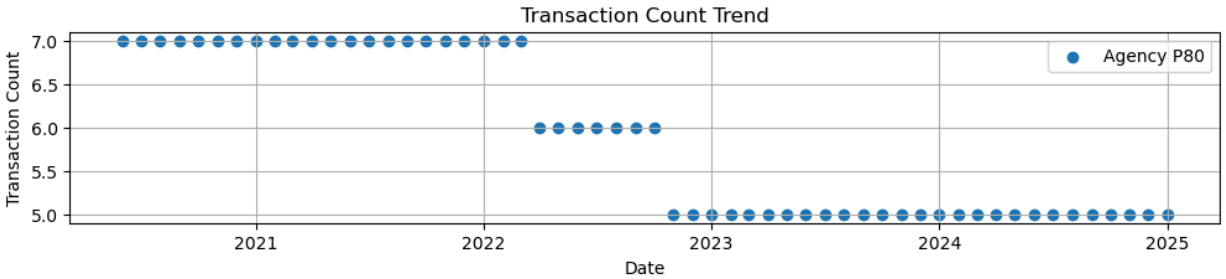
2024
2025
Date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Agency P80
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6.0
5.5
5.0
2021
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2023
2024
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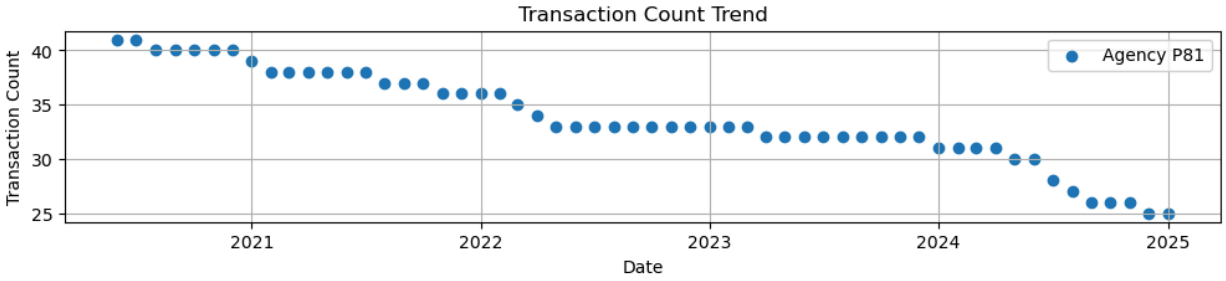
Date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Agency P81
Transaction Count
Date
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25
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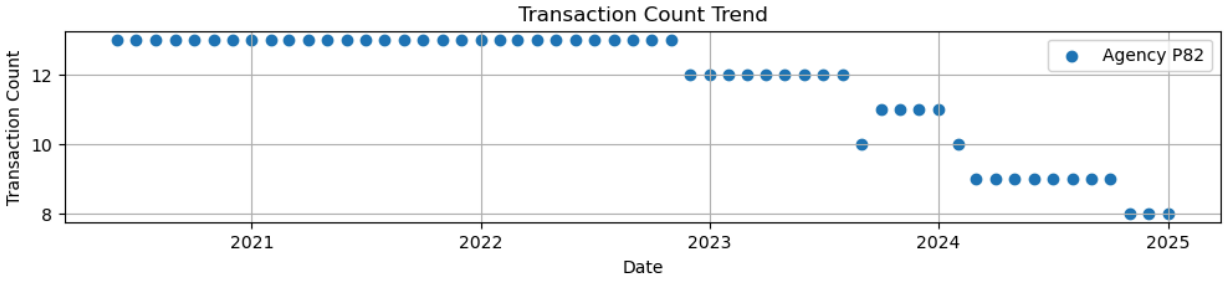
2024
2025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Agency P82
Transaction Count
Date
12
10
8
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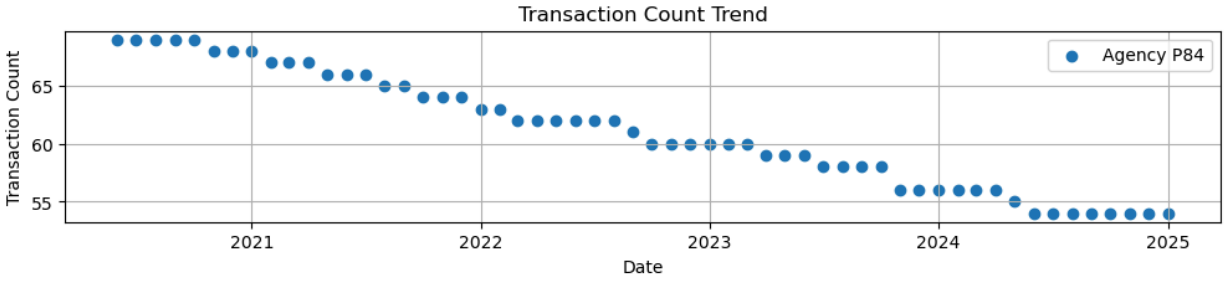
Transaction Count Trend
Agency P84
Transaction Count
Date
65
60
55
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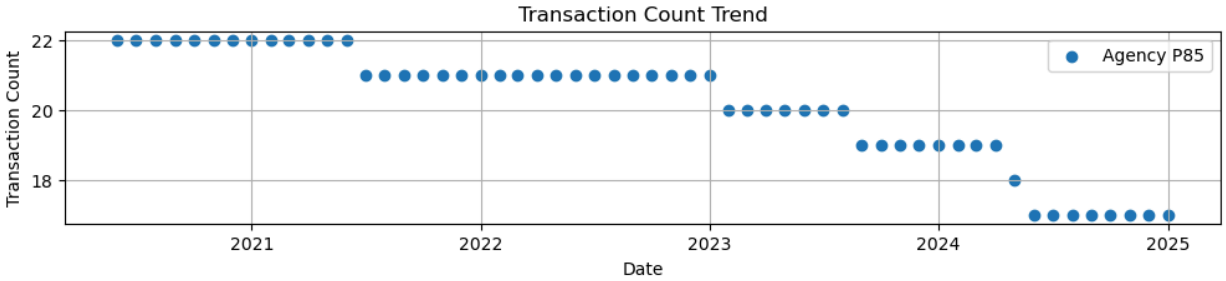
2024
2025


Transaction Count Trend
Agency P85
Transaction Count
Date
22
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18
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2024
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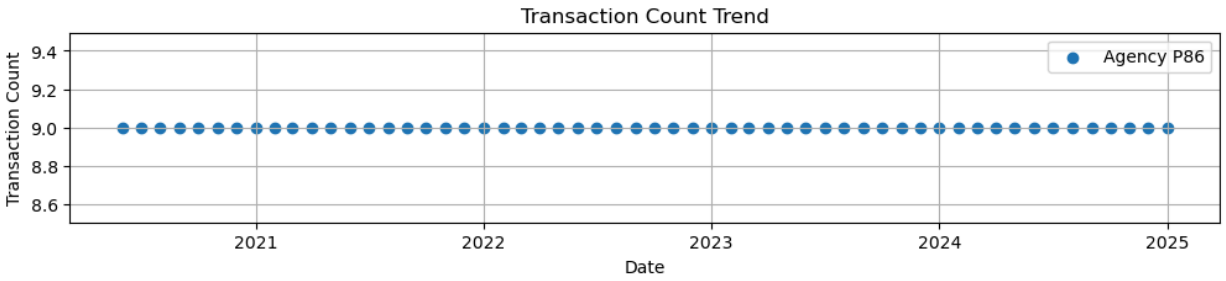
Transaction Count Trend
Agency P86
Transaction Count
Date
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9.0
8.8
8.6
2021
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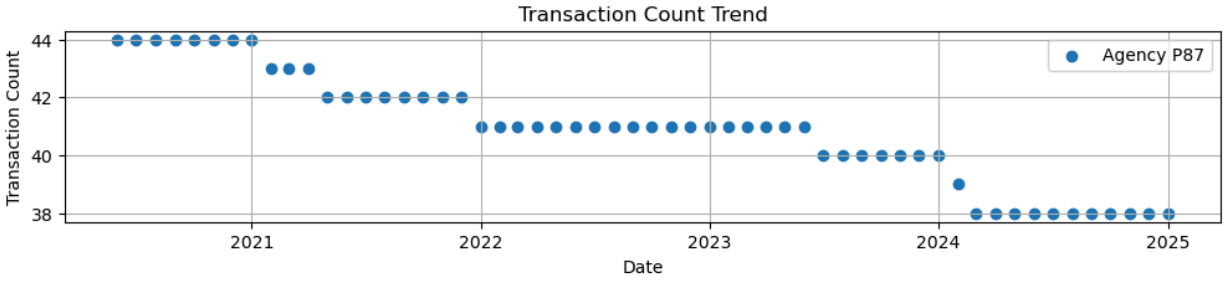
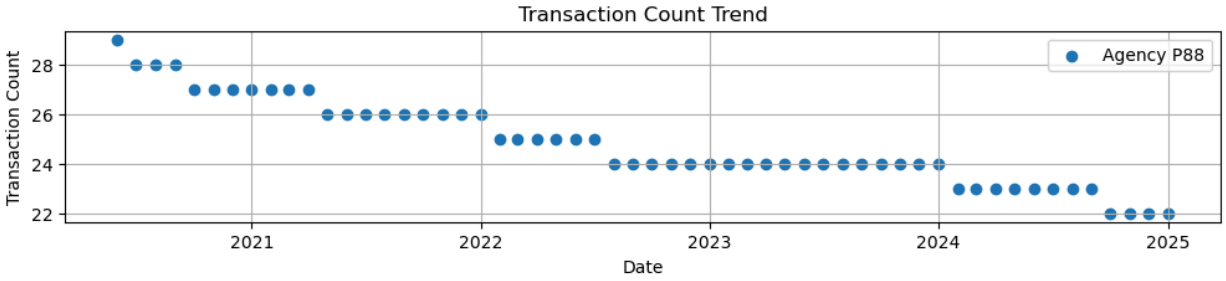
2023
2024
2025


Transaction Count Trend
Agency P87
Transaction Count
Date
44
42
40
38
2021
2022
2023
2024
2025


Transaction Count Trend
Agency P88
Transaction Count
28
26
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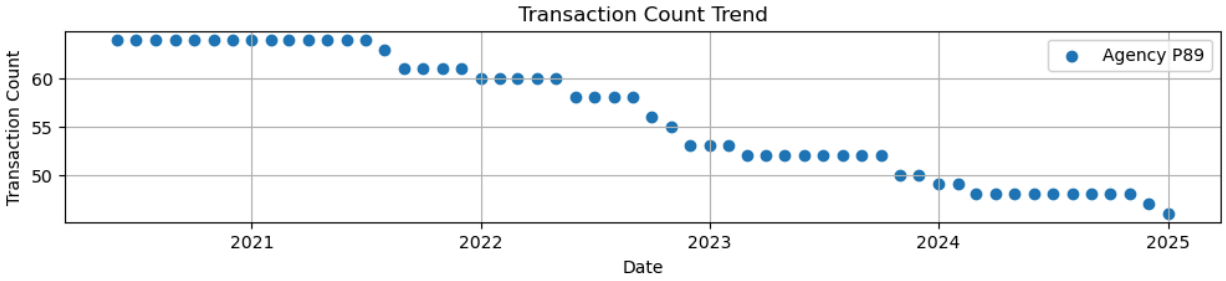
22
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P89
Transaction Count
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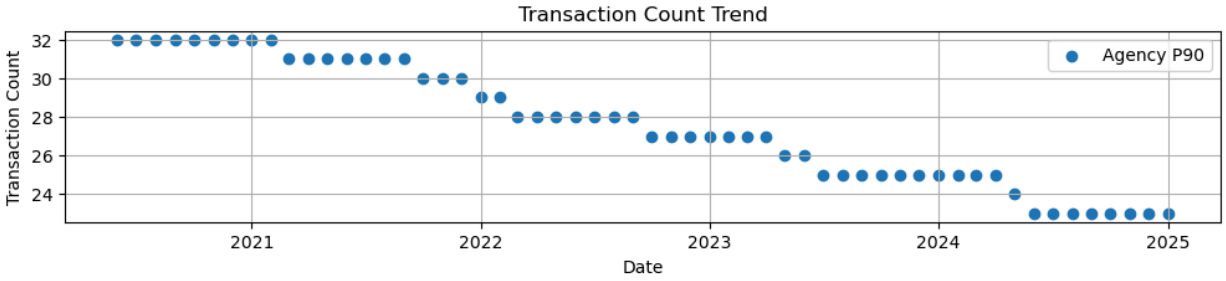
2024
2025
Date


Transaction Count Trend
Agency P90
Transaction Count
32
30
28
26
24
2021
2022
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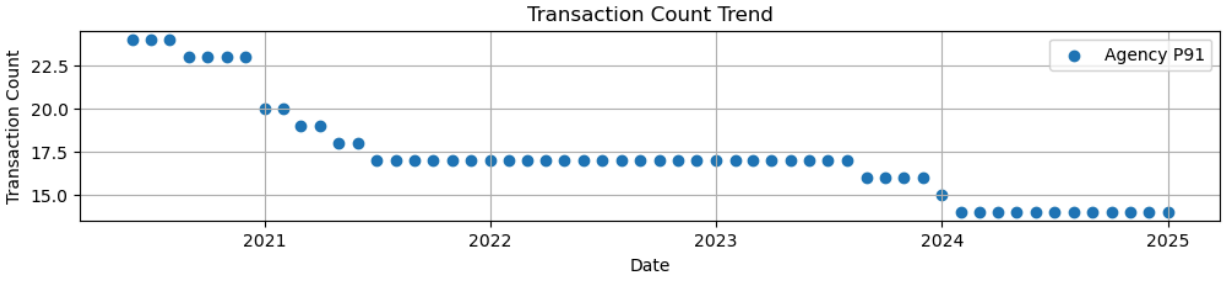
2024
2025
Date


Transaction Count Trend
Agency P91
Transaction Count
22.5
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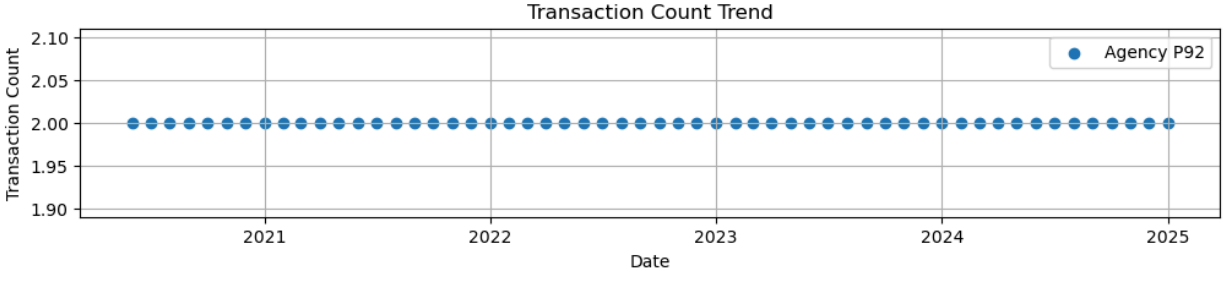
17.5
15.0
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P92
Transaction Count
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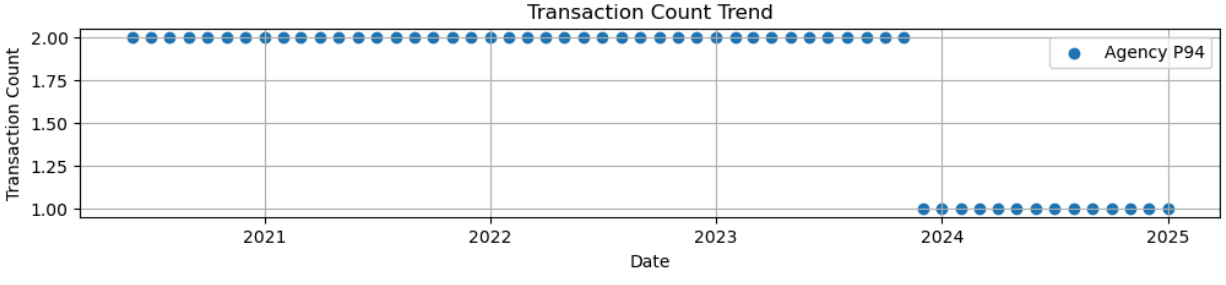
2.00
1.95
1.90
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P94
Transaction Count
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1.50
1.25
1.00
2021
2022
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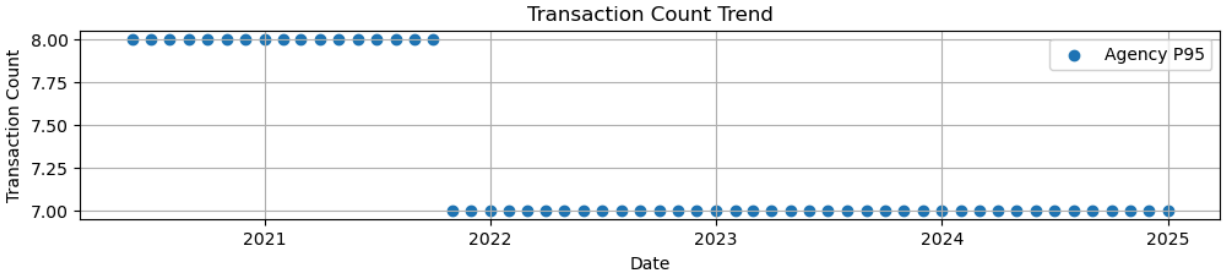
2024
2025
Date


Transaction Count Trend
Agency P95
Transaction Count
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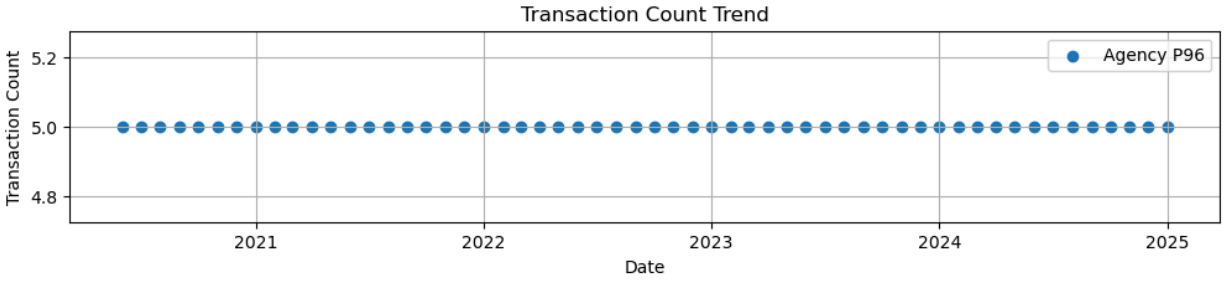
7.50
7.25
7.00
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency P96
Transaction Count
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2021
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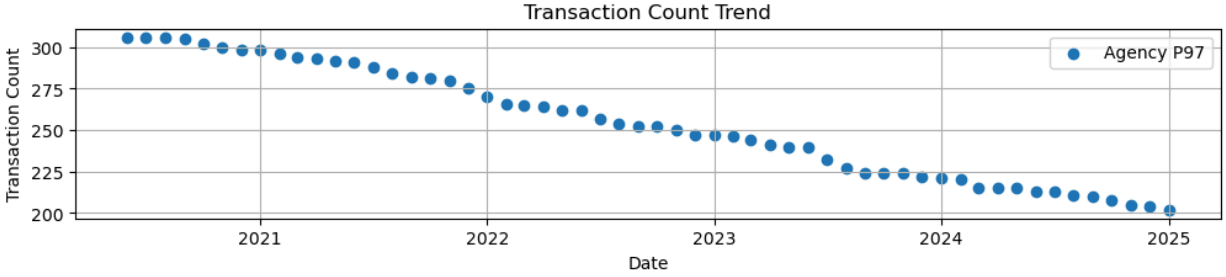
2025
Date


Transaction Count Trend
Agency P97
Transaction Count
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225
200
2021
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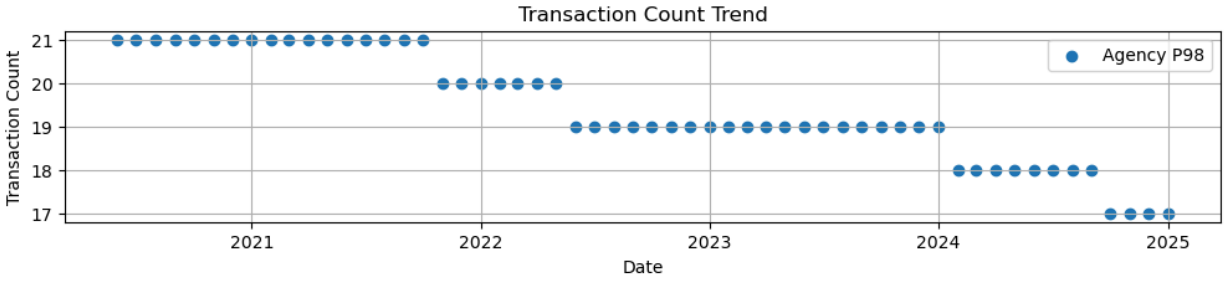
Transaction Count Trend
Agency P98
Transaction Count
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2025
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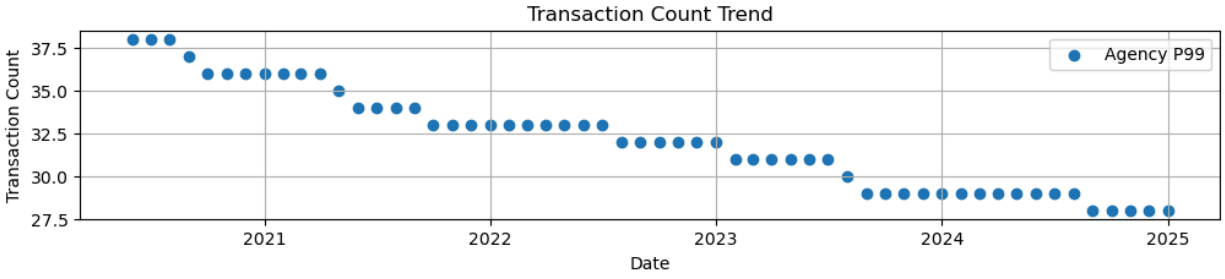
Transaction Count Trend
Agency P99
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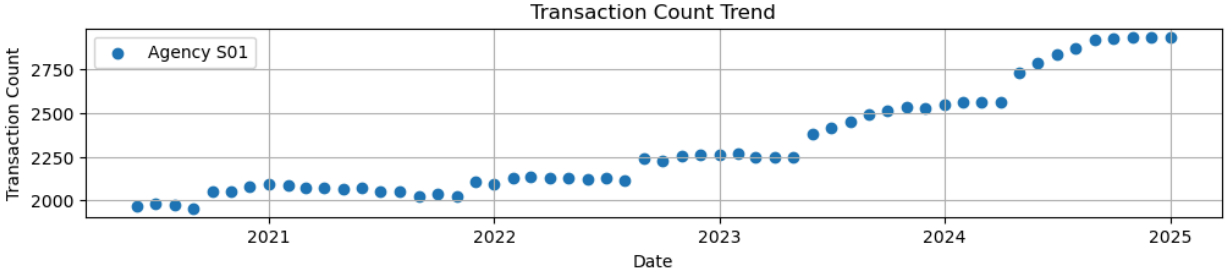
Transaction Count Trend
Agency S01
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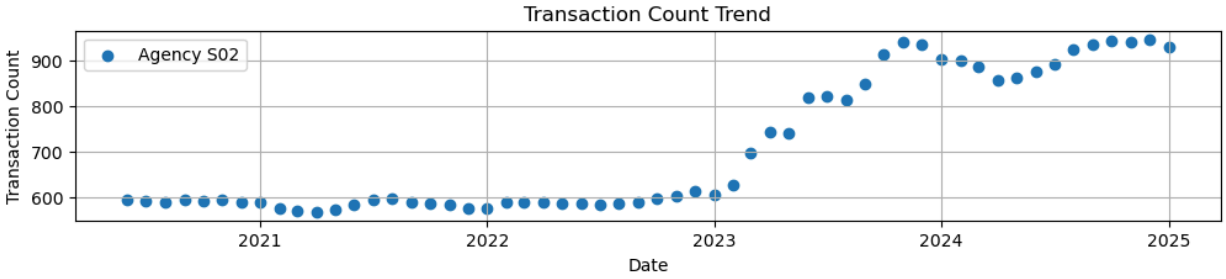
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Agency S02
Transaction Count
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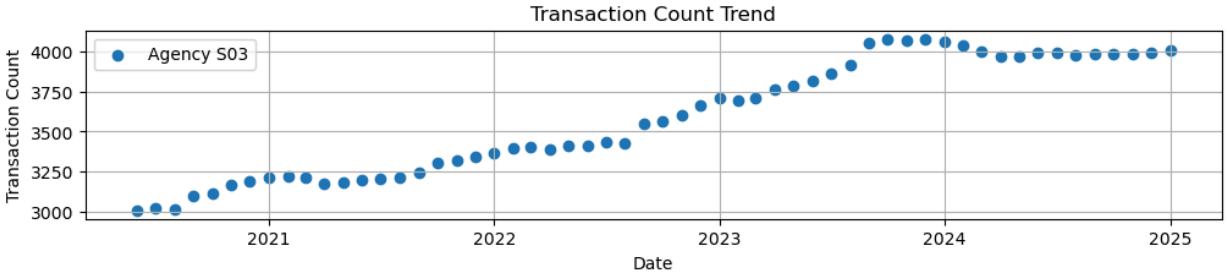
Transaction Count Trend
Agency S03
Transaction Count
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3250
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2021
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2024
2025
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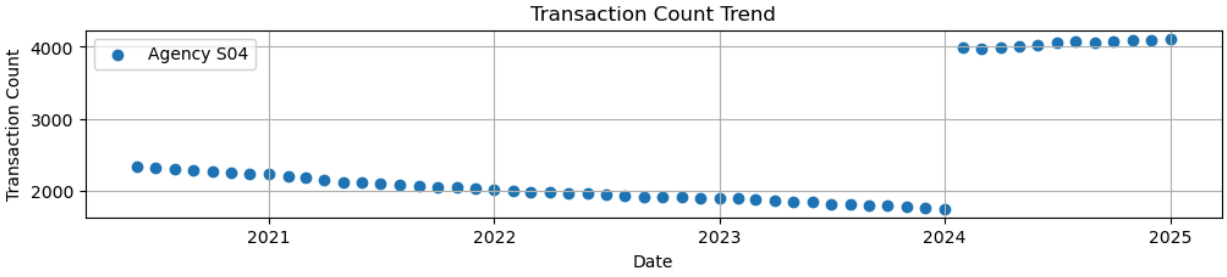
Transaction Count Trend
Agency S04
Transaction Count
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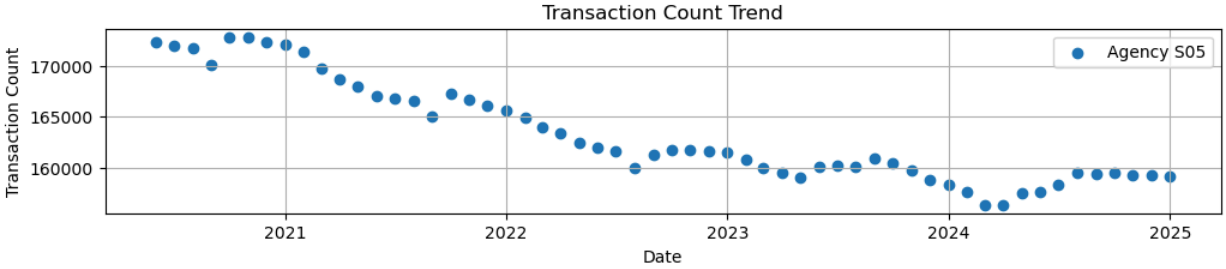
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Transaction Count
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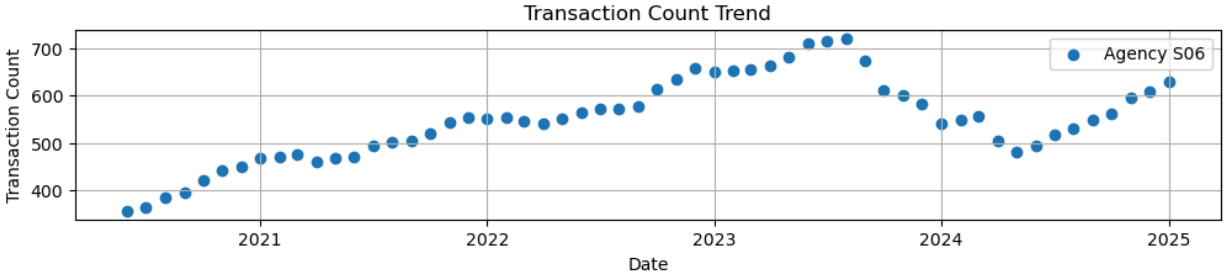
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Agency S06
Transaction Count
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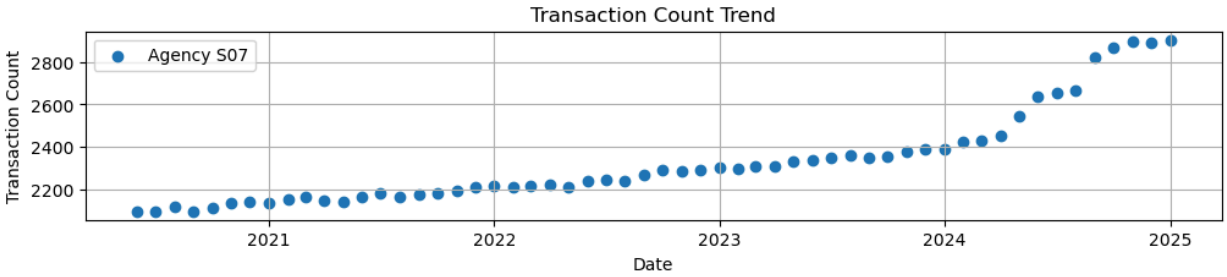
2025
Date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Transaction Count
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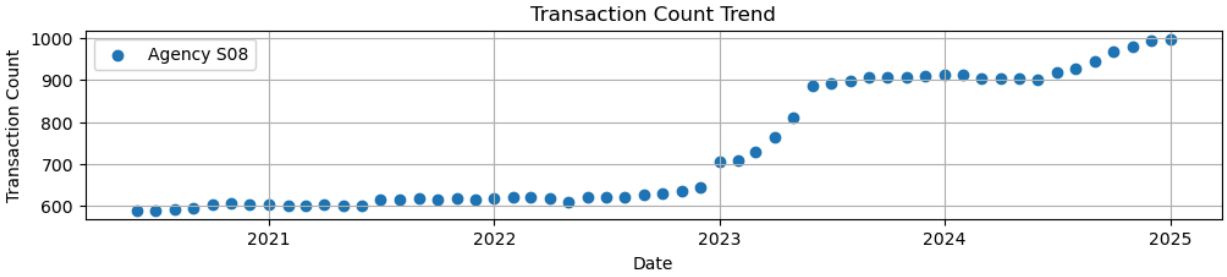
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Transaction Count
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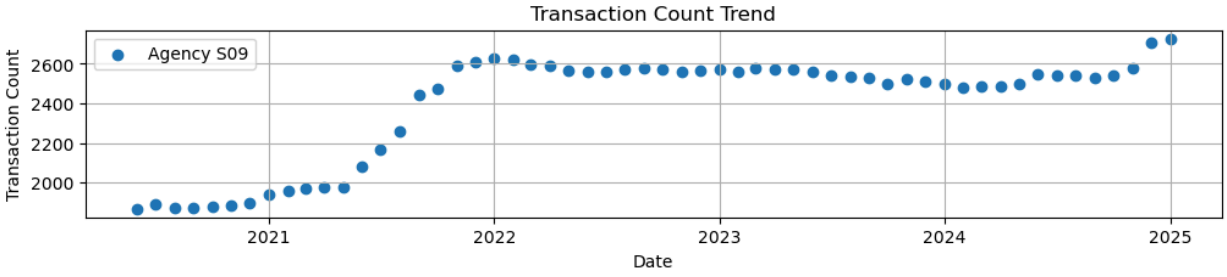
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Agency S09
Transaction Count
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2000
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2024
2025
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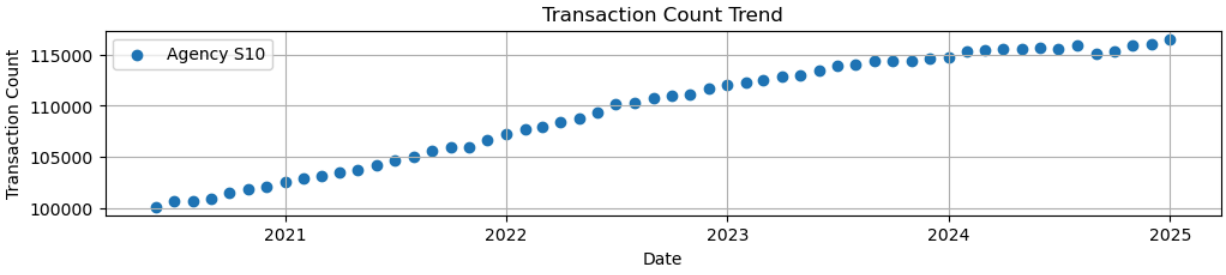
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Agency S10
Transaction Count
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110000
105000
100000
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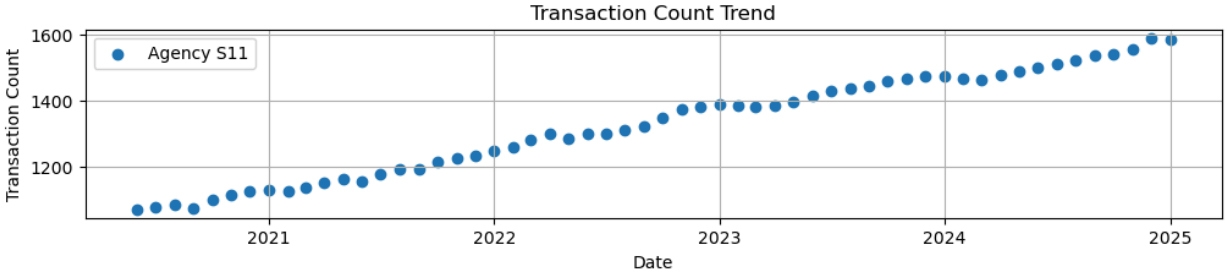
Date


Transaction Count Trend
Agency S11
Transaction Count
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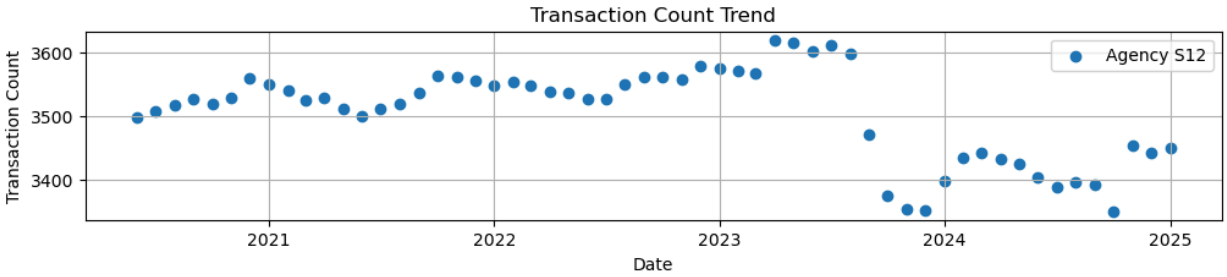
1400
1200
2021
2022
2023
2024
2025
Date


Transaction Count Trend
Agency S12
Transaction Count
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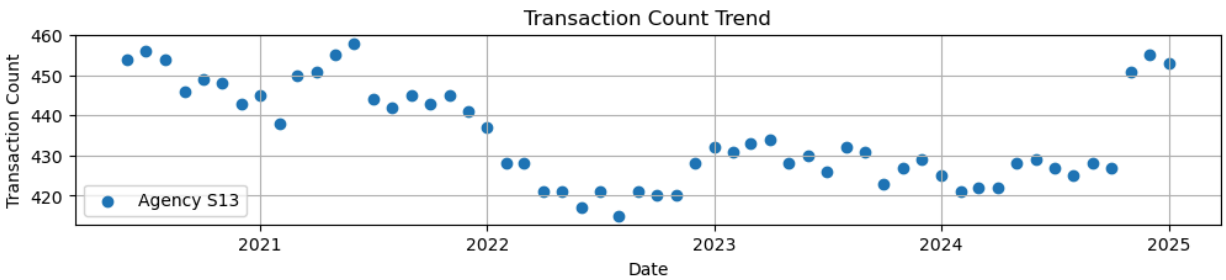
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Agency S13
Transaction Count
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430
420
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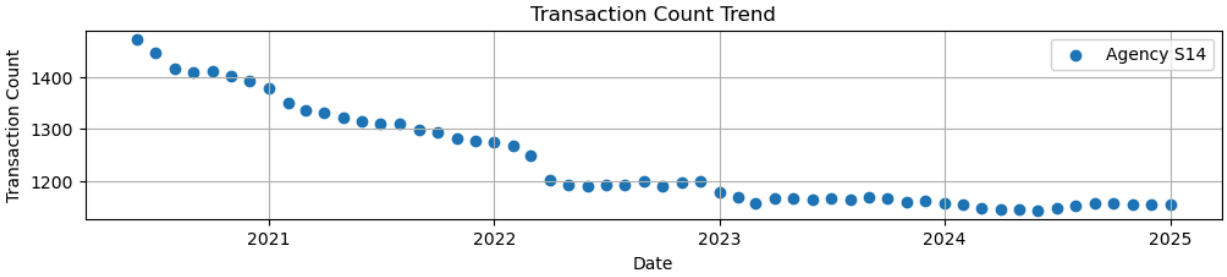
2025
Date


Transaction Count Trend
Agency S14
Transaction Count
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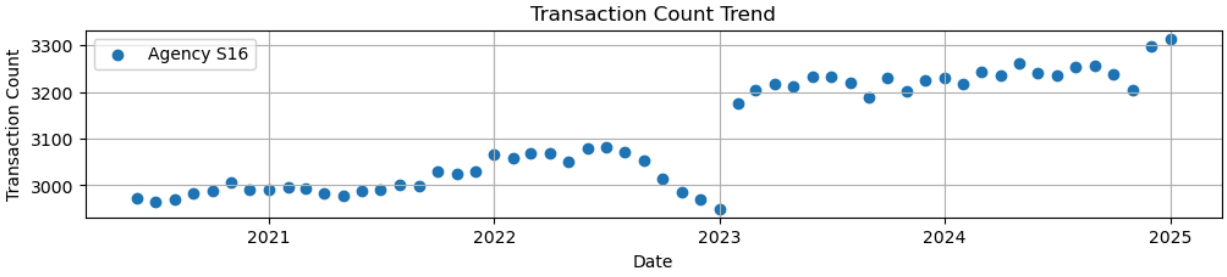
2024
2025
Date


Transaction Count Trend
Agency S16
Transaction Count
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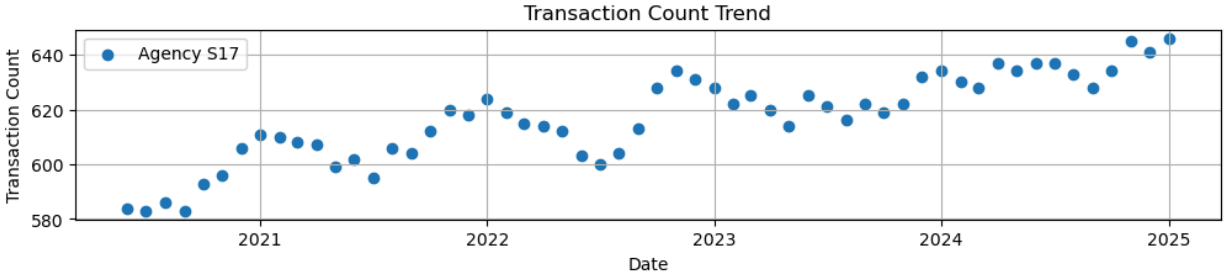
2025
Date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Agency S17
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620
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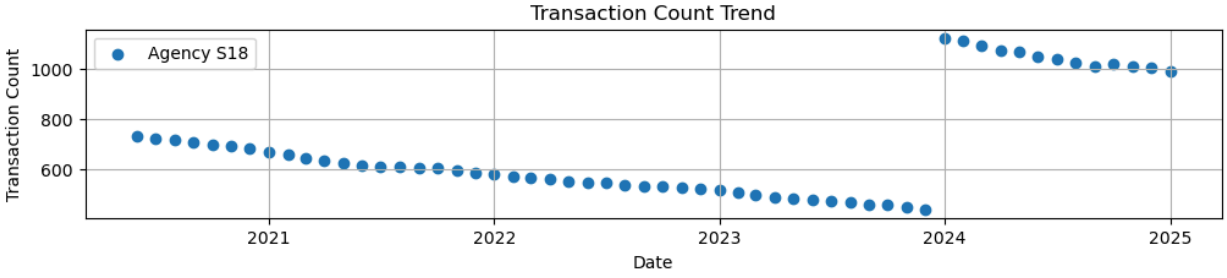
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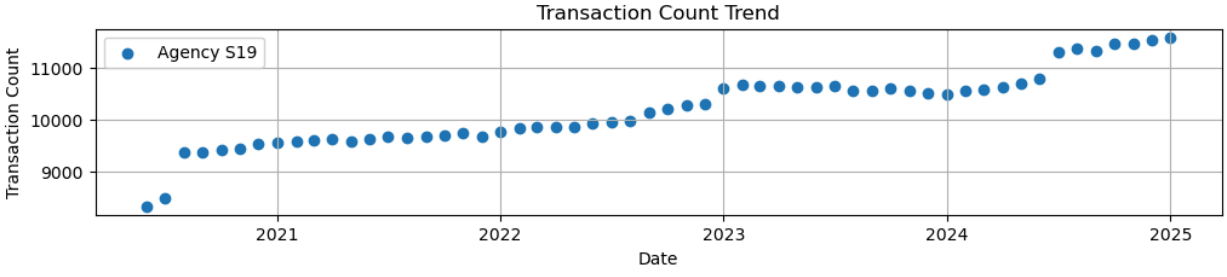
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Agency S19
Transaction Count
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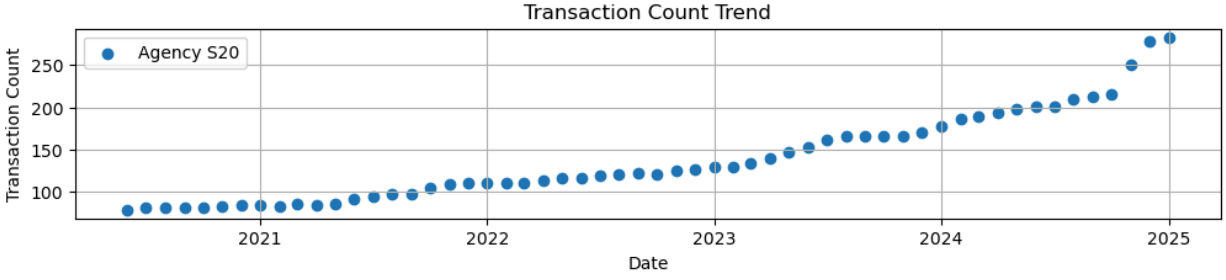
Date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Agency S20
Transaction Count
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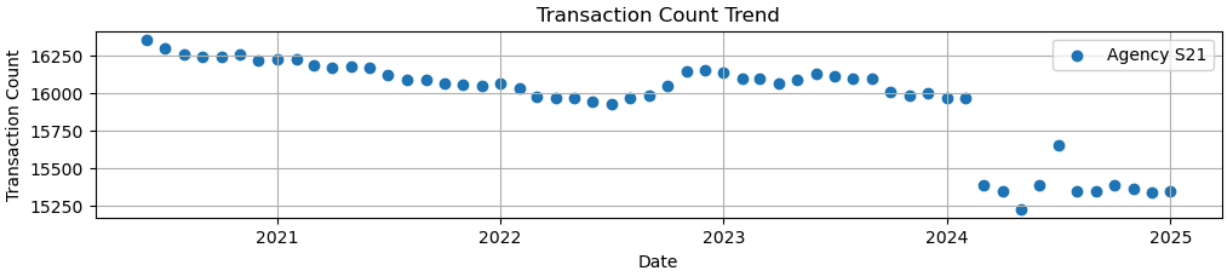
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Transaction Count
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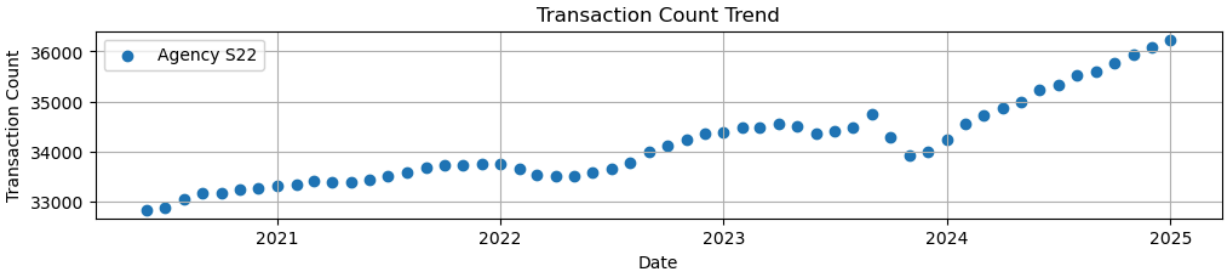
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Agency S22
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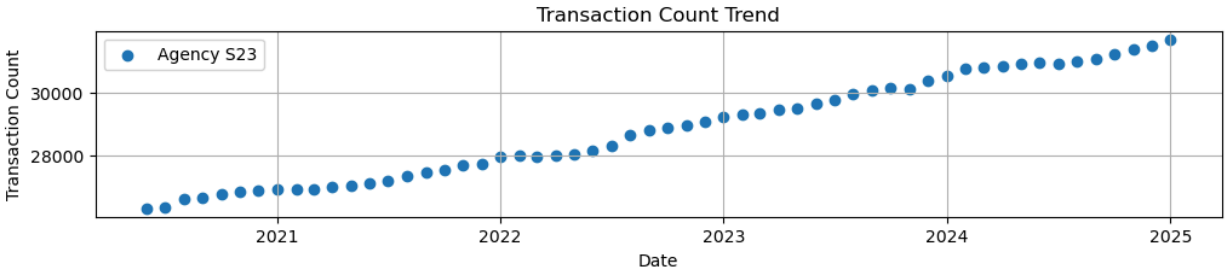
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Agency S23
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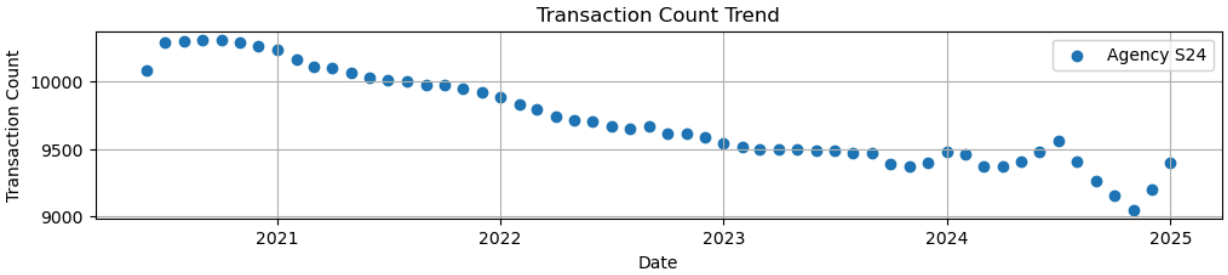
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Transaction Count
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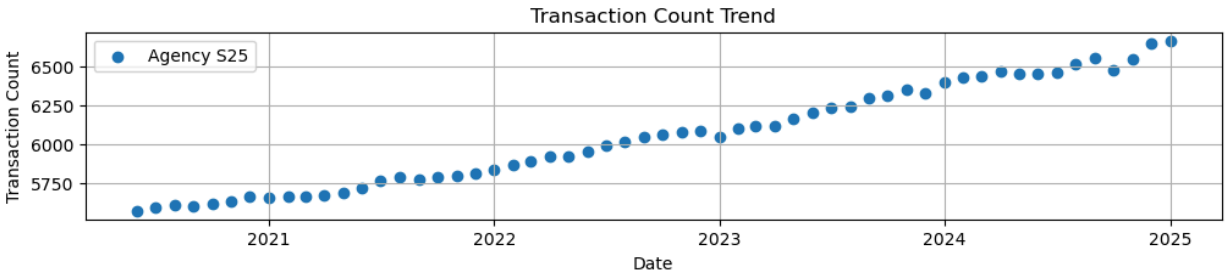
Date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Transaction Count
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2023
2024
2025
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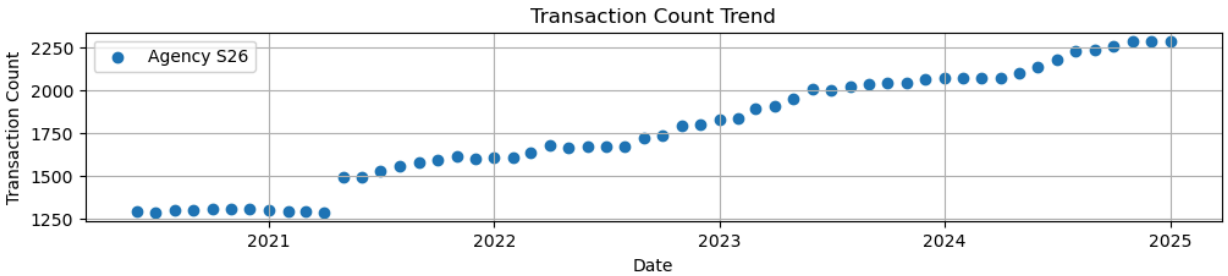
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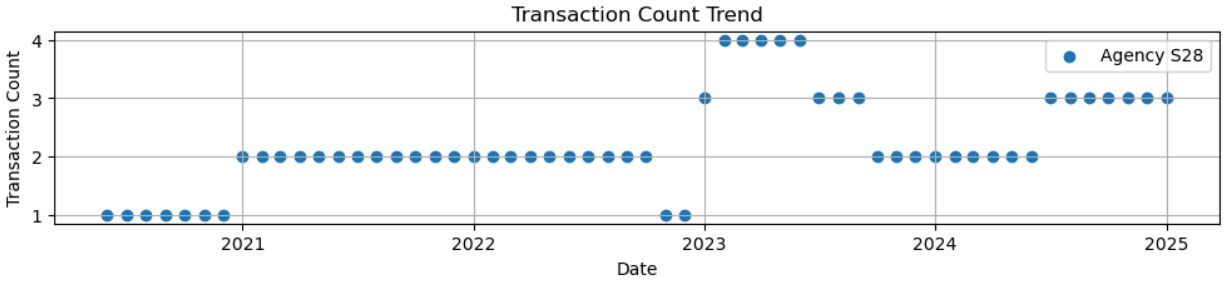
Transaction Count Trend
Agency S28
Transaction Count
Date
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2
3
4
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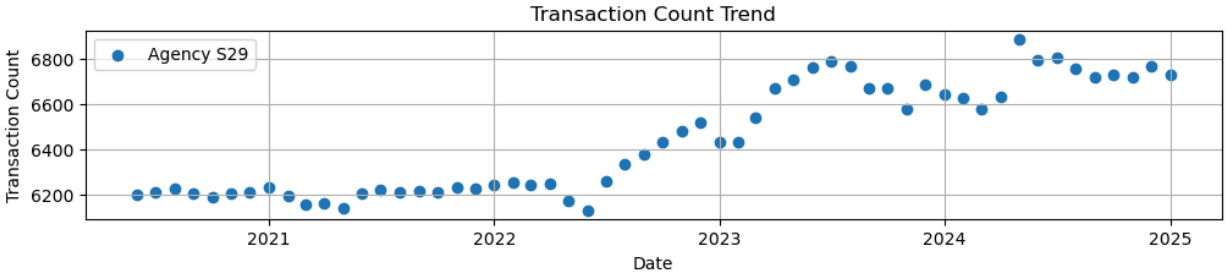
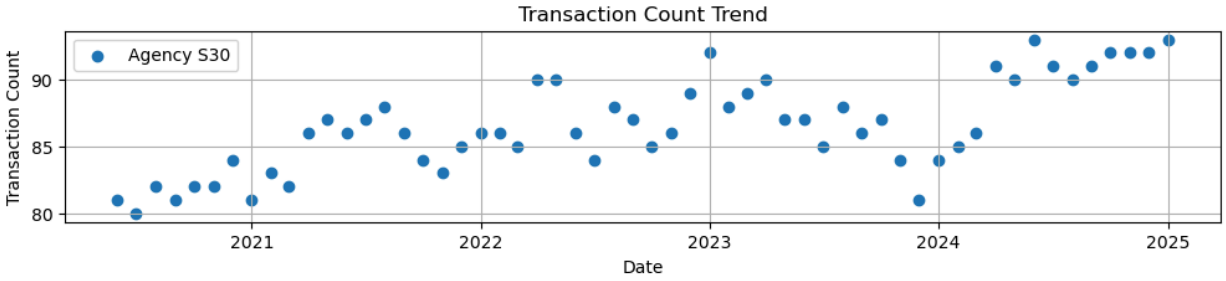
2023
2024
2025


Transaction Count Trend
Agency S29
Transaction Count
Date
6200
6400
6600
6800
2021
2022
2023
2024
2025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Agency S30
Transaction Count
Date
80
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90
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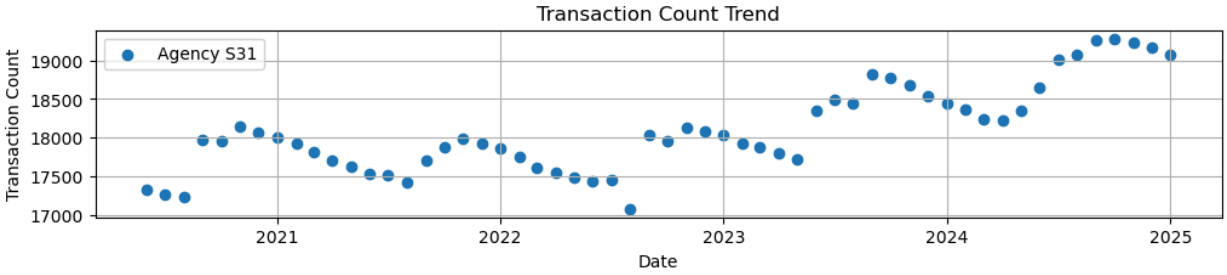
Transaction Count Trend
Agency S31
Transaction Count
Date
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18000
18500
19000
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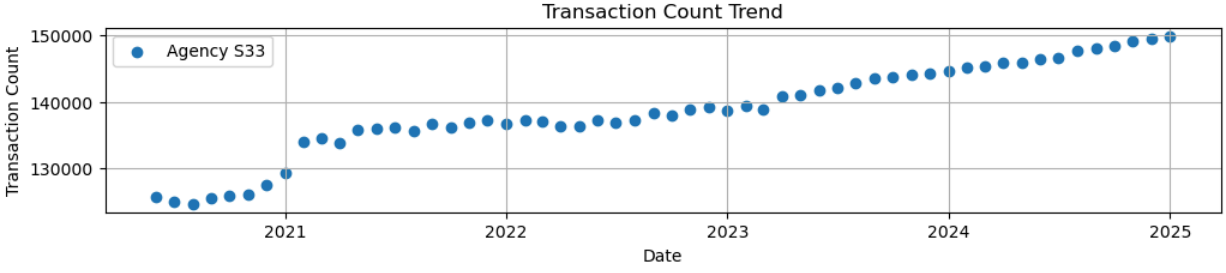
2022
2023
2024
2025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Agency S33
Transaction Count
Date
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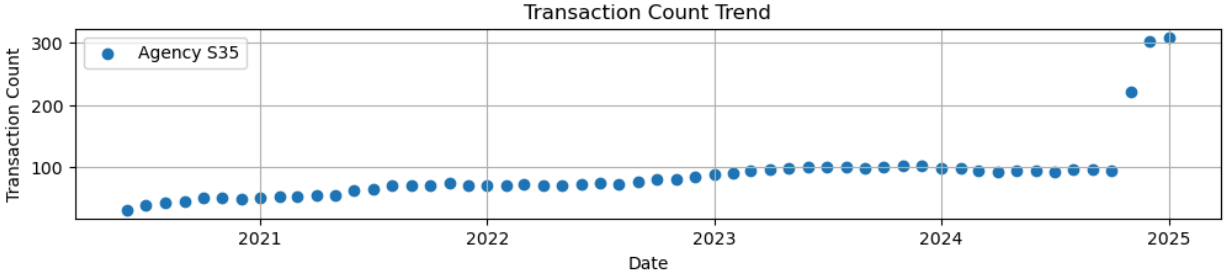
2024
2025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Agency S35
Transaction Count
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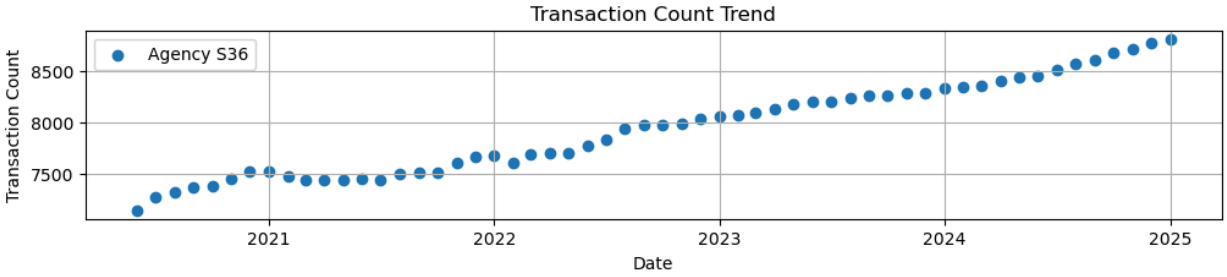
2025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Agency S36
Transaction Count
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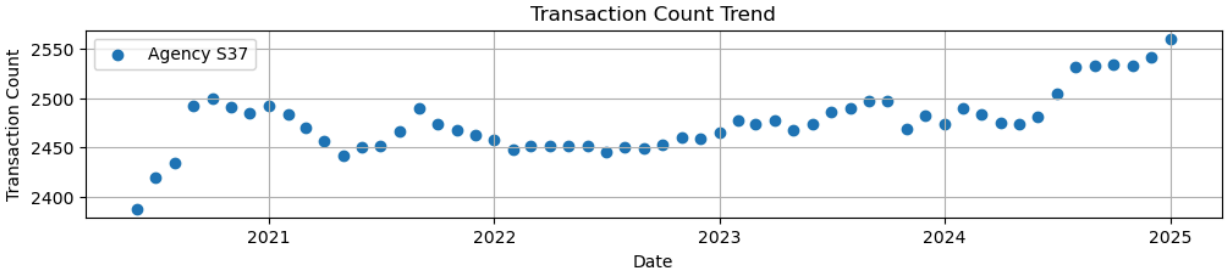
2024
2025
Date


Transaction Count Trend
Agency S37
Transaction Count
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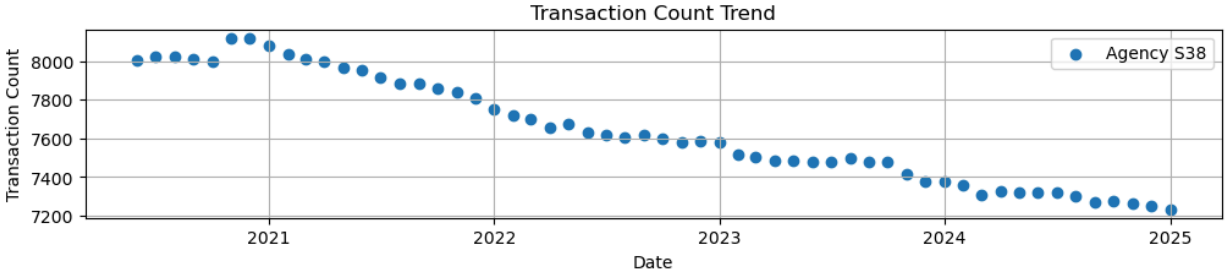
Transaction Count Trend
Agency S38
Transaction Count
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7400
7200
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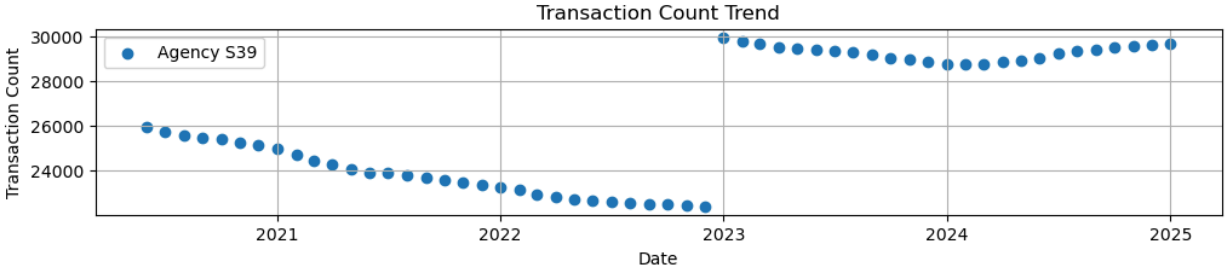
2025
Date


Transaction Count Trend
Agency S39
Transaction Count
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2024
2025
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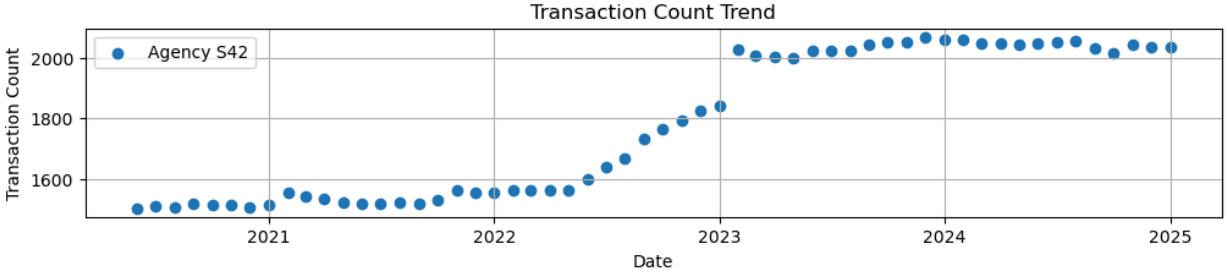
Transaction Count Trend
Agency S42
Transaction Count
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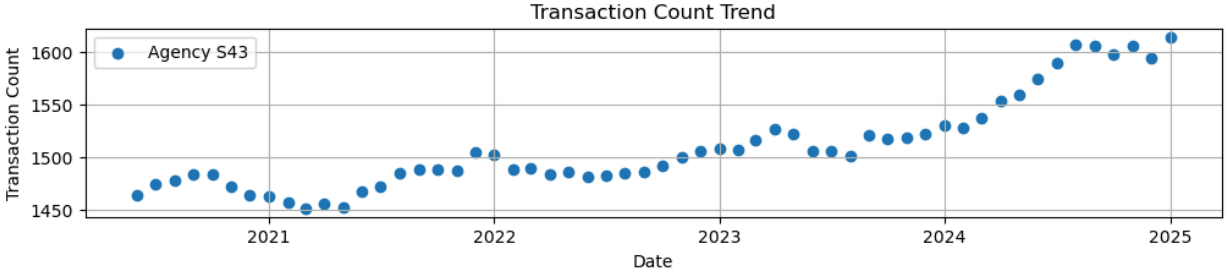
2024
2025
Date


Transaction Count Trend
Agency S43
Transaction Count
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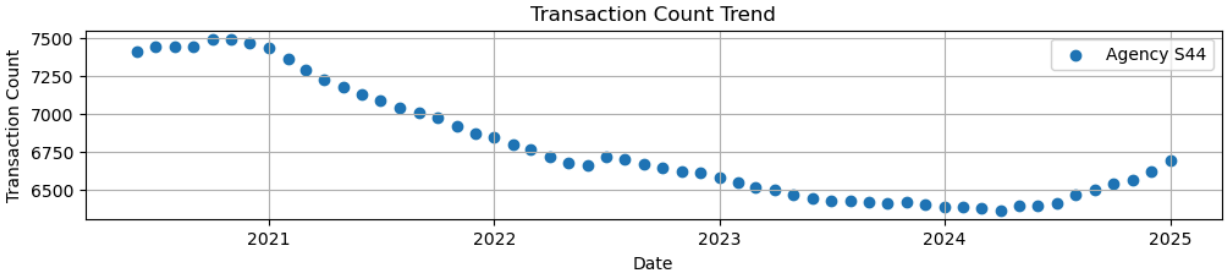
Transaction Count Trend
Agency S44
Transaction Count
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6750
6500
2021
2022
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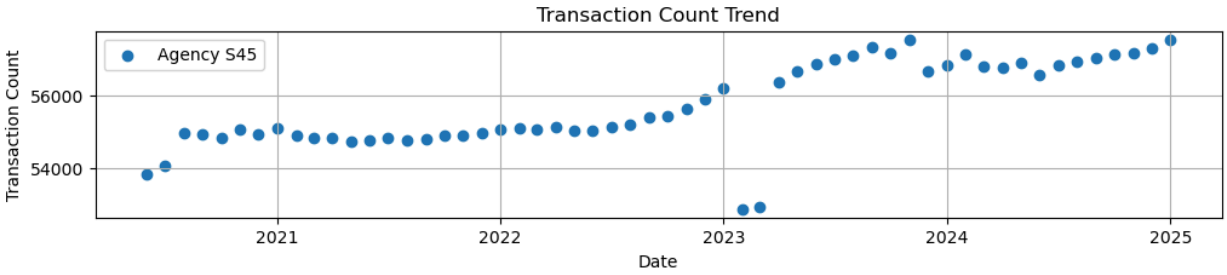
2024
2025
Date


Transaction Count Trend
Agency S45
Transaction Count
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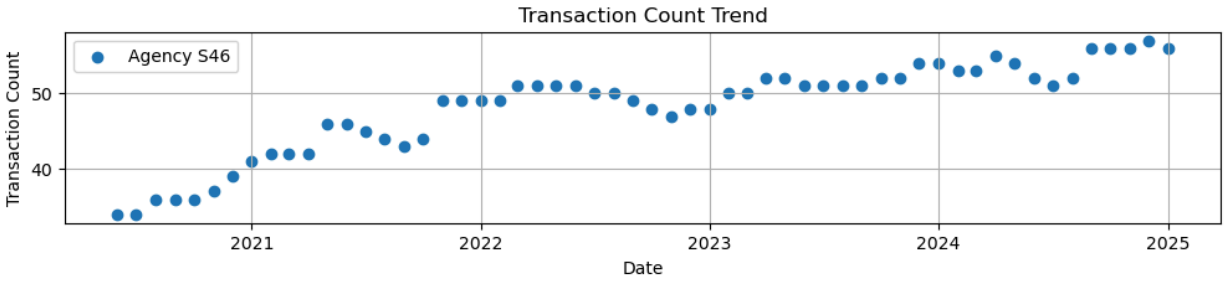
Transaction Count Trend
Agency S46
Transaction Count
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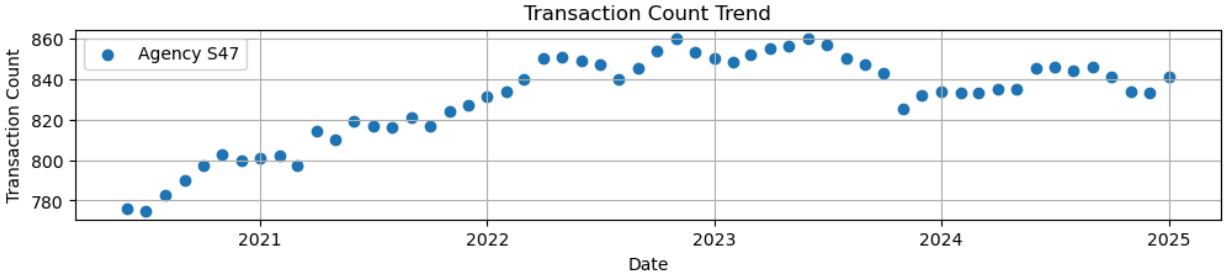
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Agency S47
Transaction Count
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780
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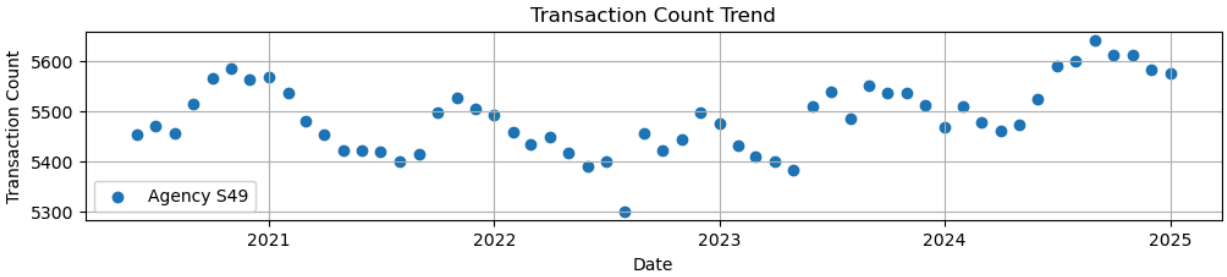
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Transaction Count
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5300
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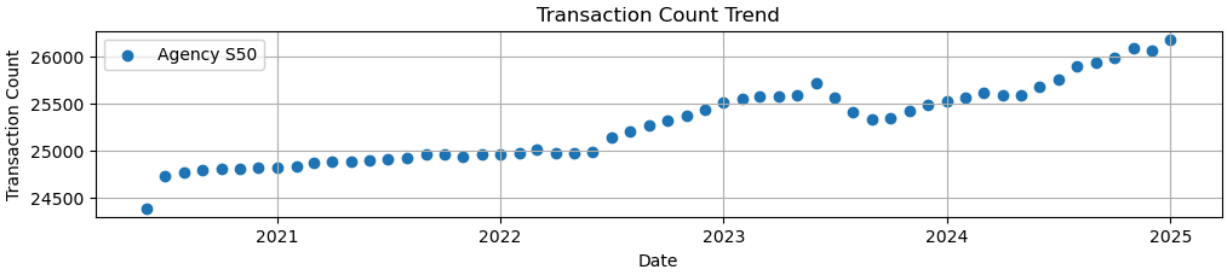
2023
2024
2025
Date


Transaction Count Trend
Agency S50
Transaction Count
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24500
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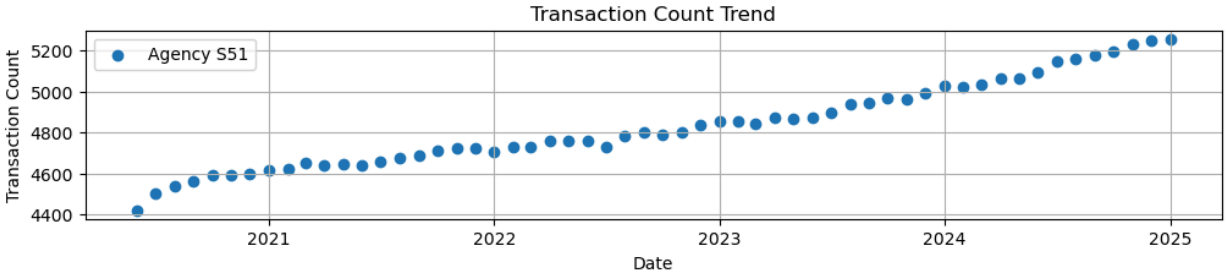
Transaction Count Trend
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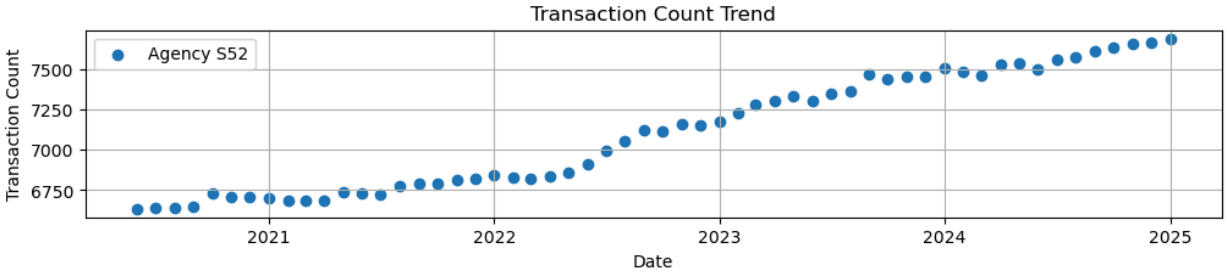
Transaction Count Trend
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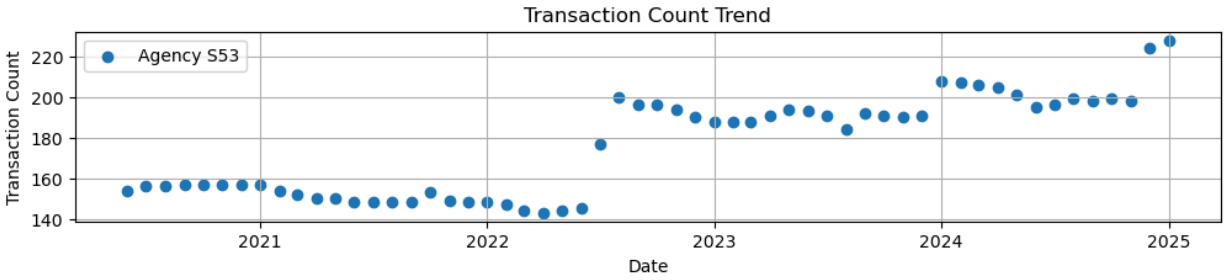
Transaction Count Trend
Agency S53
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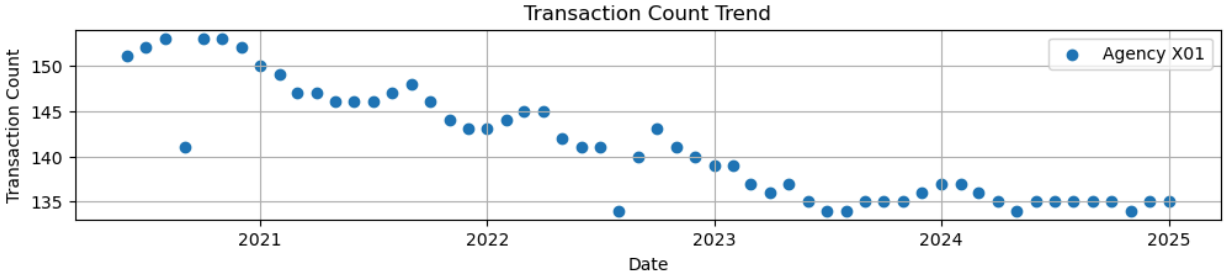
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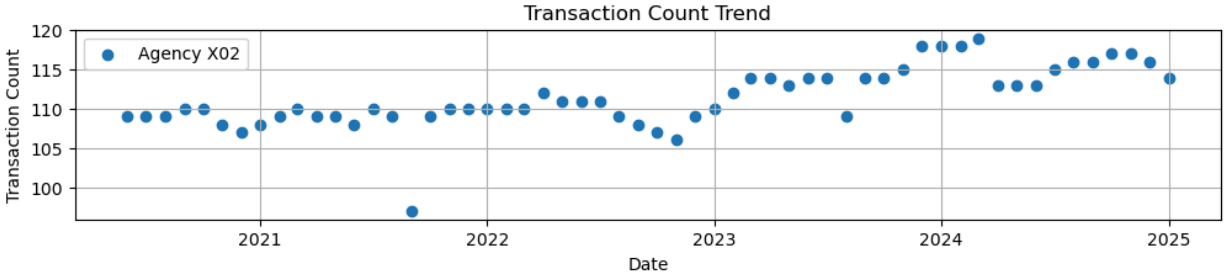
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Agency X02
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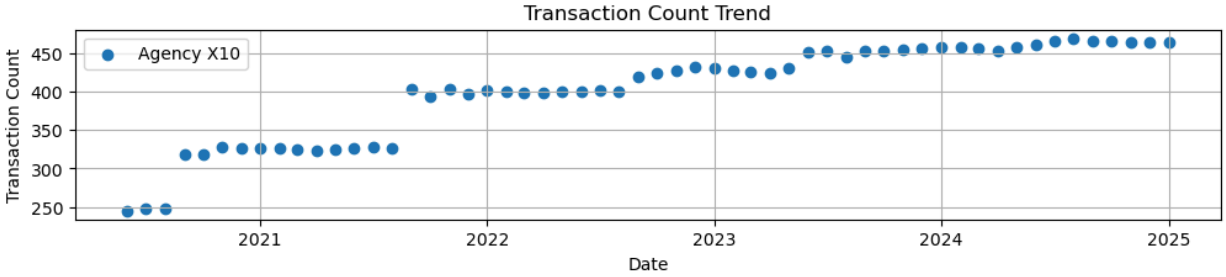
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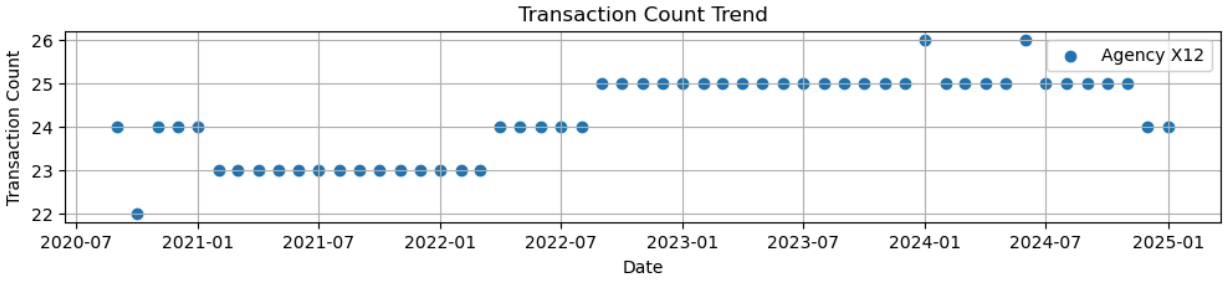
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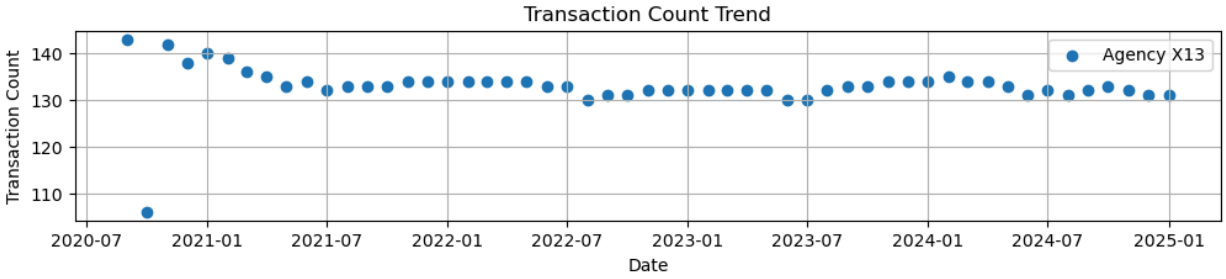
Transaction Count Trend
Agency X13
Transaction Count
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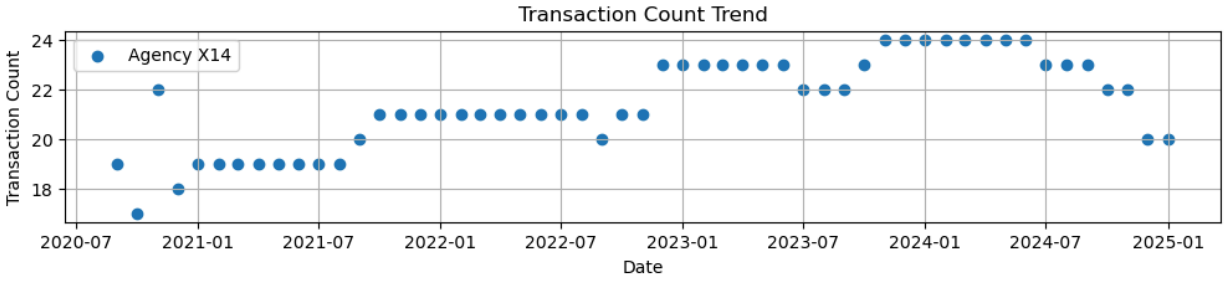
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Agency X14
Transaction Count
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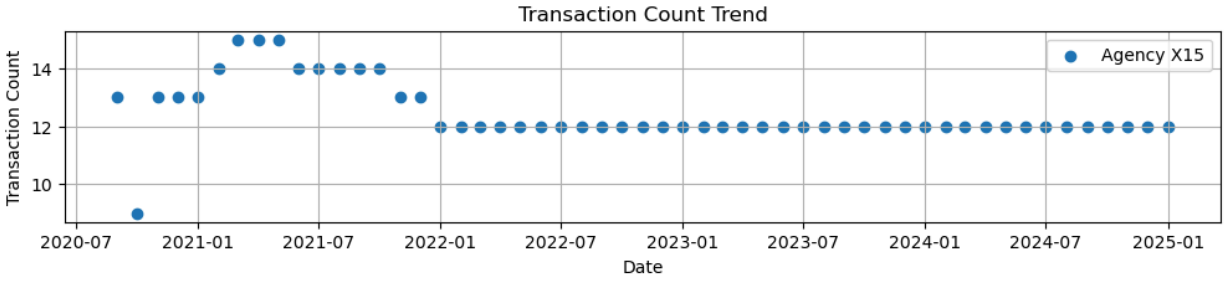
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Agency X15
Transaction Count
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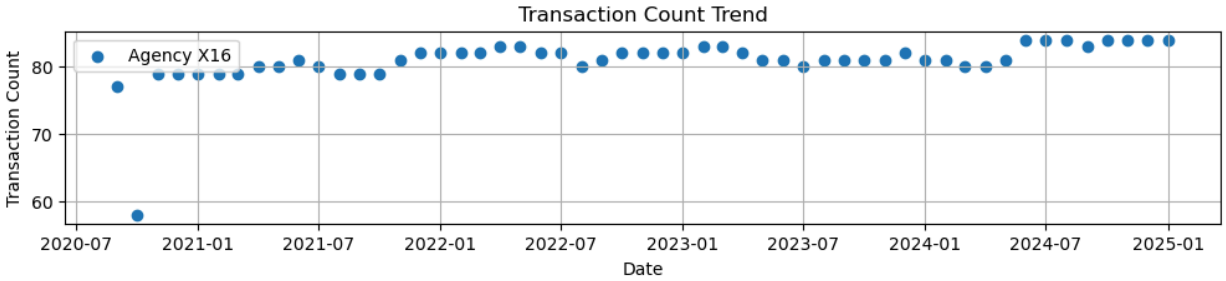
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Agency X16
Transaction Count
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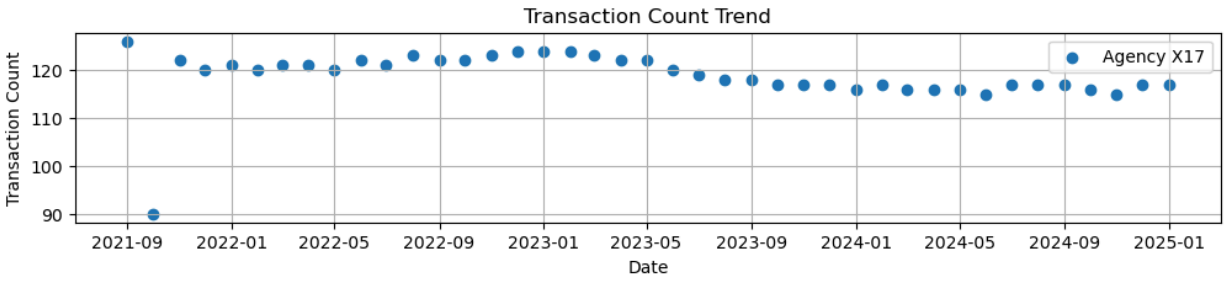
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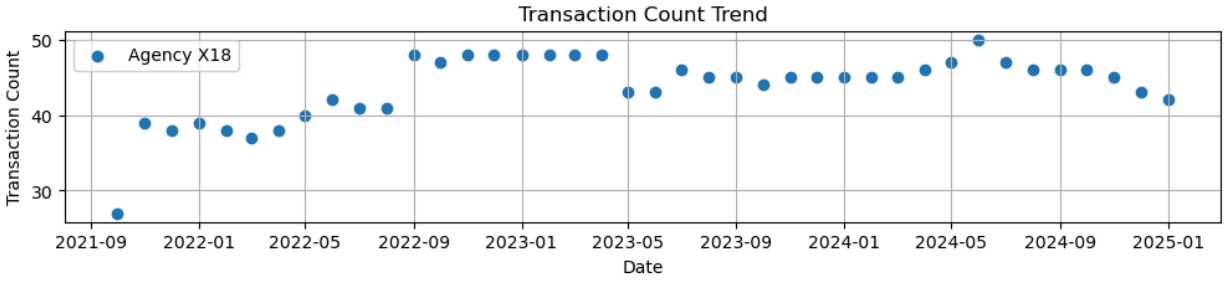
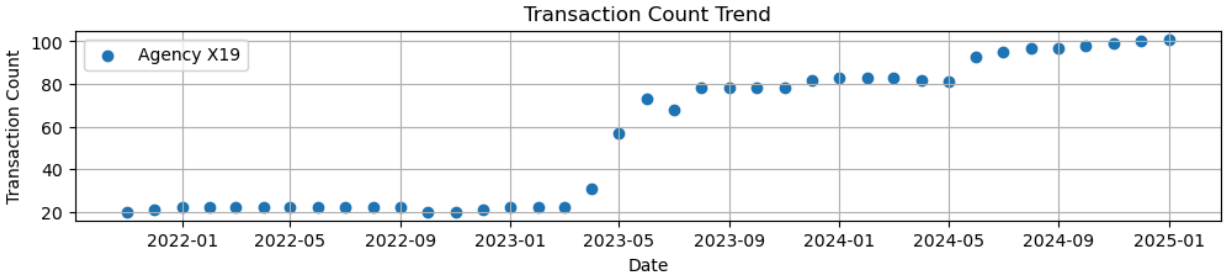
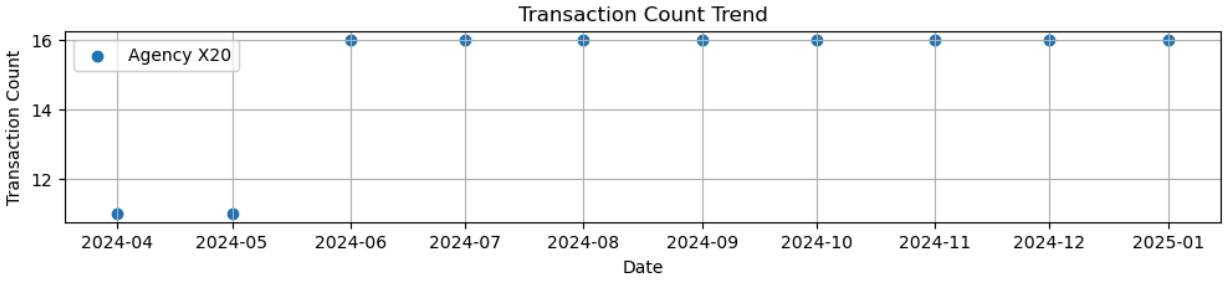
Agency X17
Transaction Count
Date


Transaction Count Trend
Agency X18
Transaction Count
Date


Transaction Count Trend
Agency X19
Transaction Count
Date


Transaction Count Trend
Agency X20
Transaction Count
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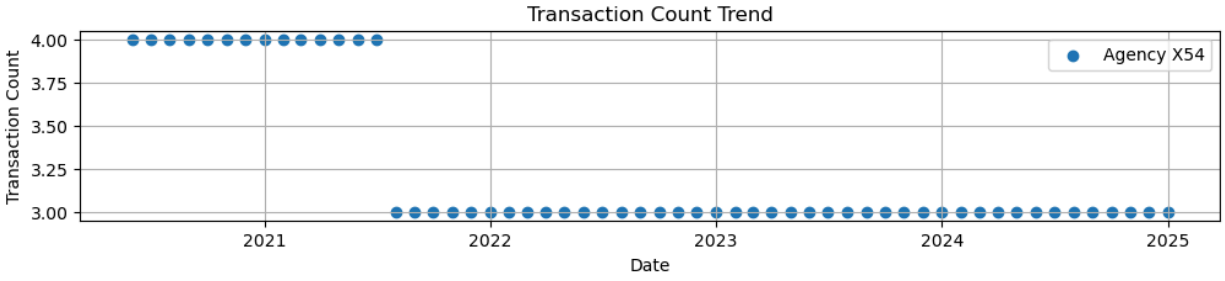
Transaction Count Trend
Agency X54
Transaction Count
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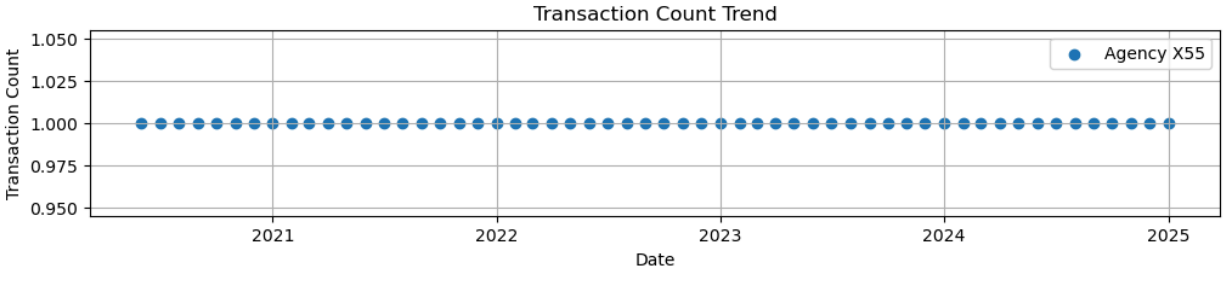
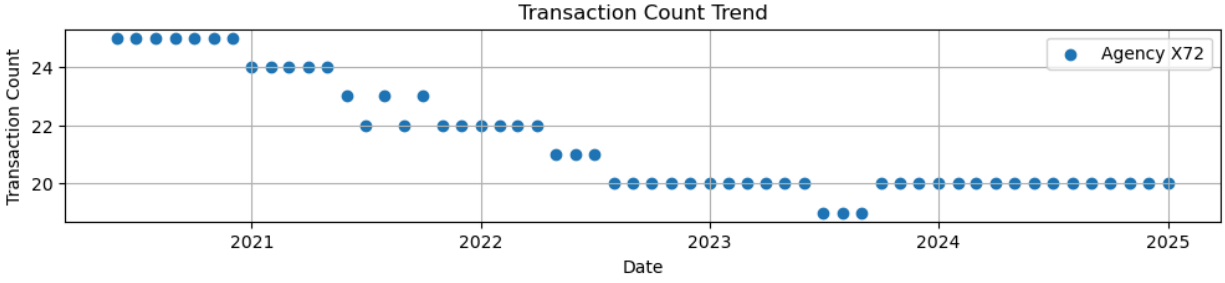
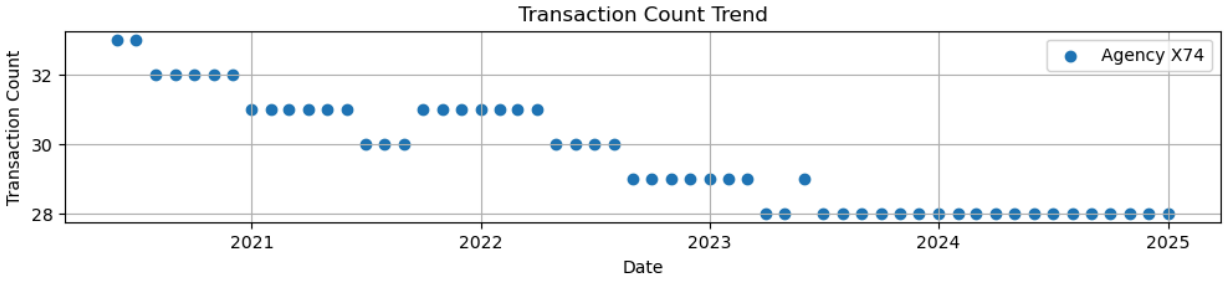

Transaction Count Trend
Agency X55
Transaction Count
Date


Transaction Count Trend
Agency X72
Transaction Count
Date


Transaction Count Trend
Agency X74
Transaction Count
32
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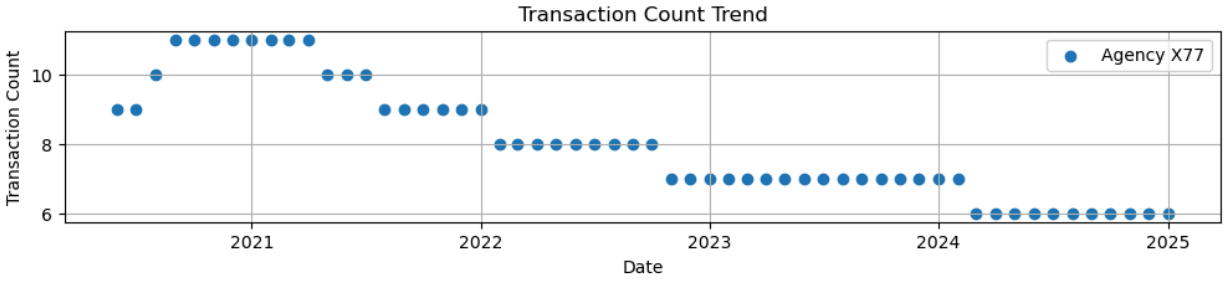
2024
2025
Date


Transaction Count Trend
Agency X77
Transaction Count
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2024
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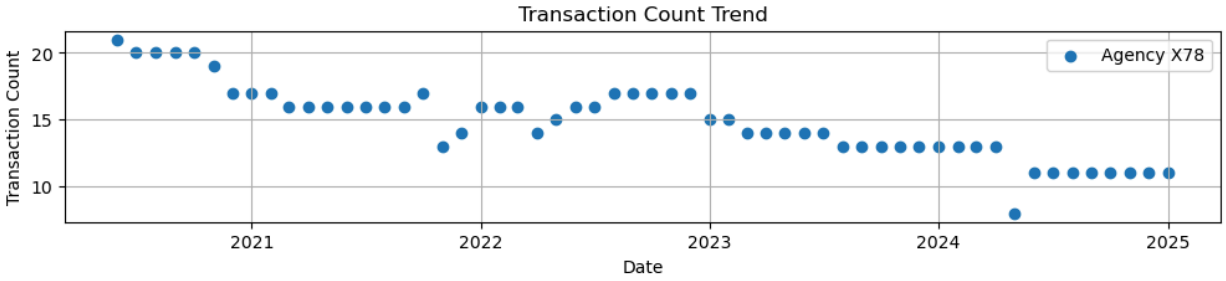
Date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Agency X78
Transaction Count
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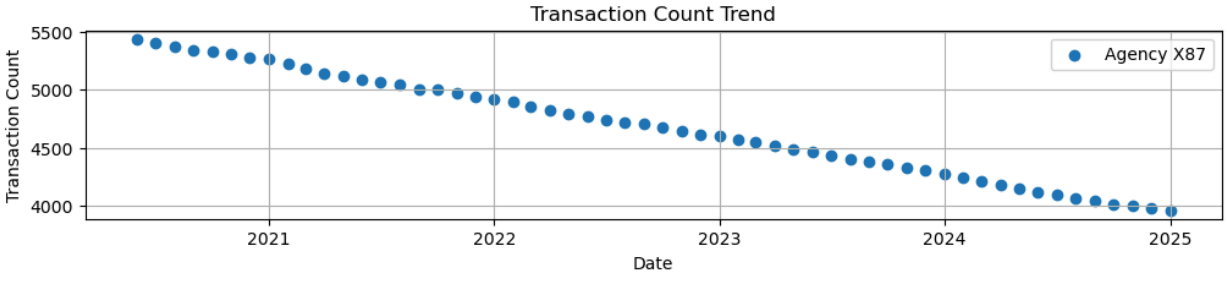
Date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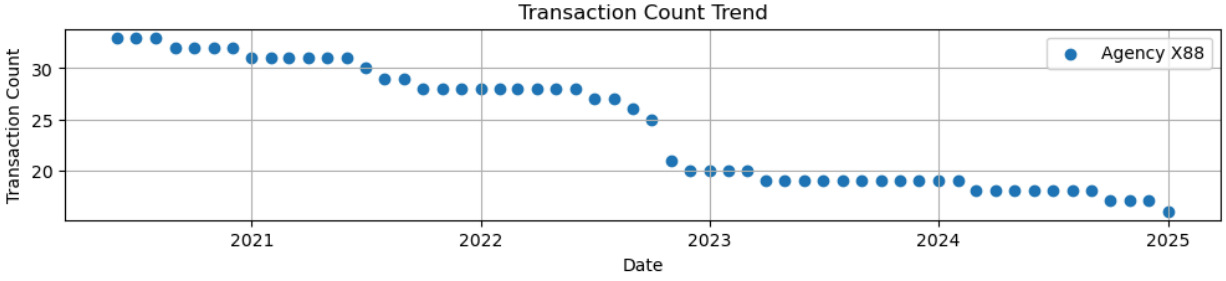
Date


Transaction Count Trend
Agency X88
Transaction Count
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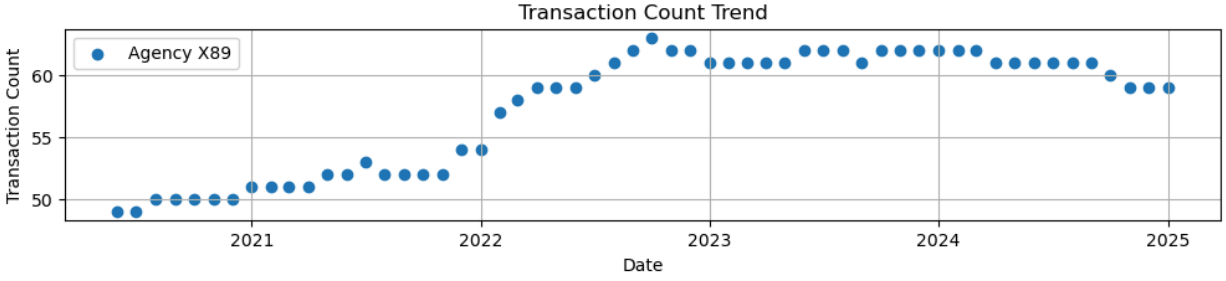
2024
2025
Date


Transaction Count Trend
Agency X89
Transaction Count
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2024
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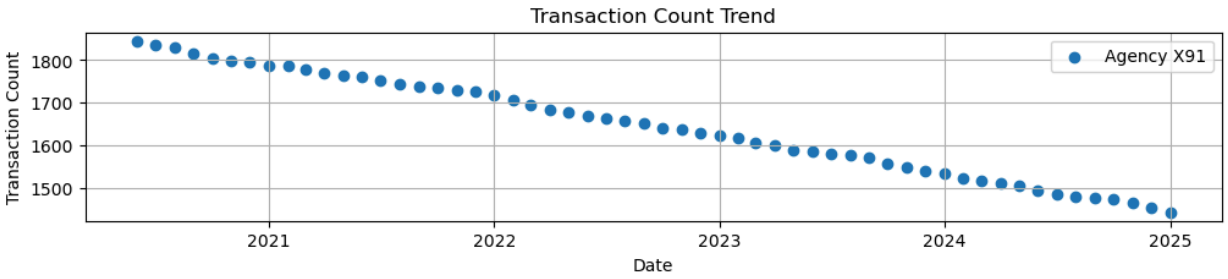
Date



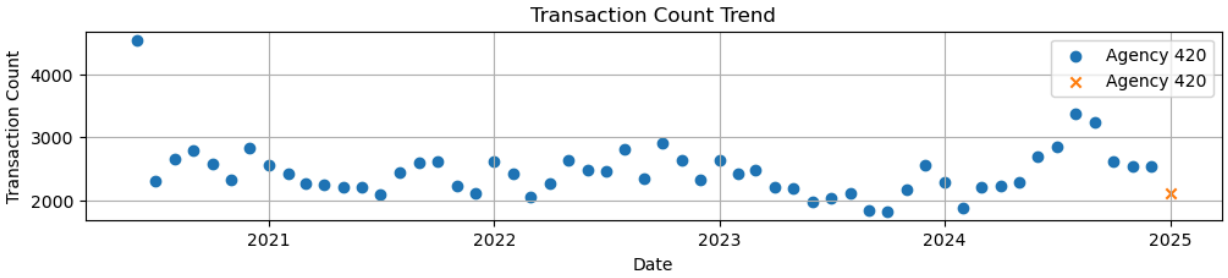
11

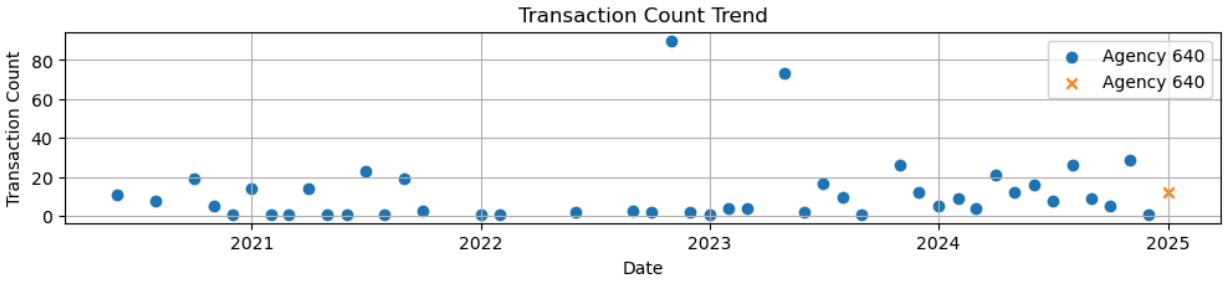
11 - Predicted as Outlier

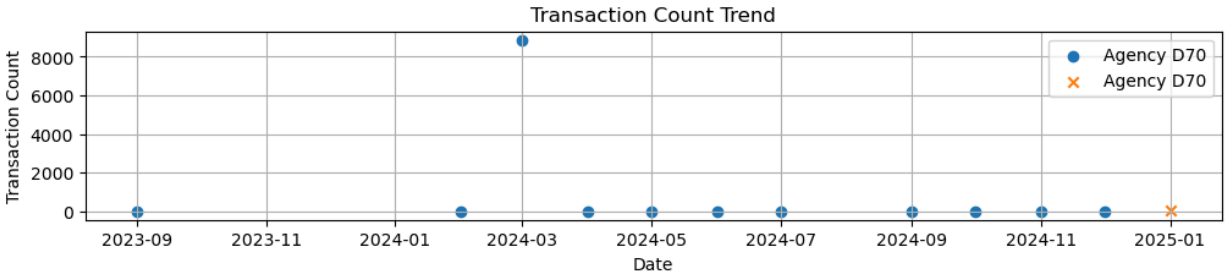
In [176…
```
outlier_df_11 = combined.query("status=='new' and status=='new' and tpmi_trans_cd=='11
print(' '.join(sorted(outlier_df_11.tpmi_agncy_cd.unique())))
```

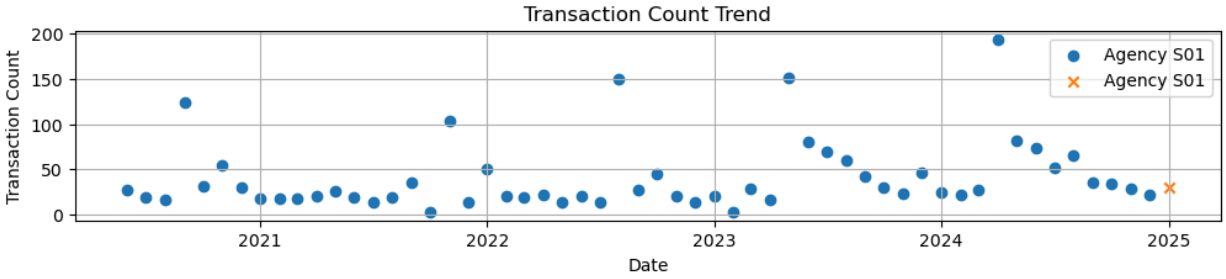
```
420 640 D70 S01 S02 S06 S15 S33 X02
```

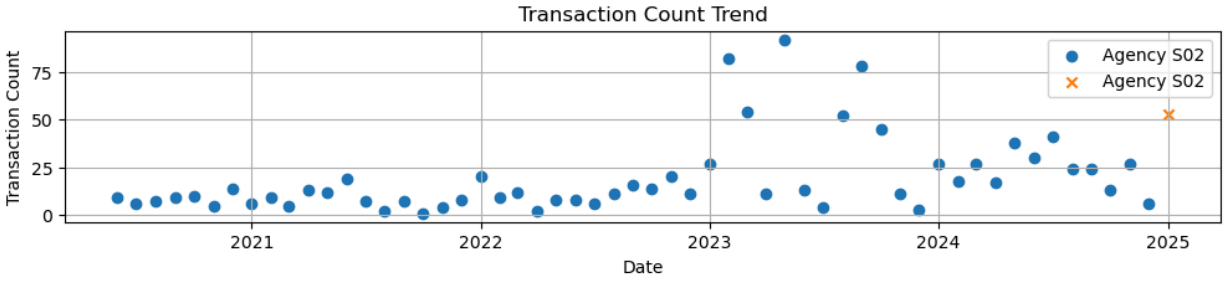
In [177…
```
for agency in sorted(outlier_df_11.tpmi_agncy_cd.unique()):
    show_outliers(combined, '11', [agency])
```

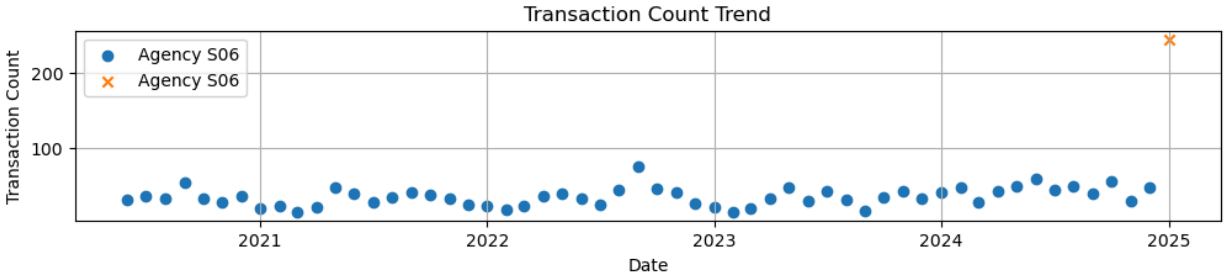


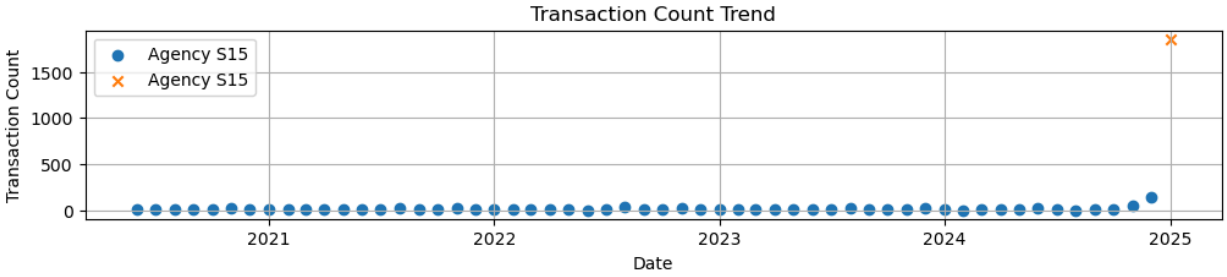


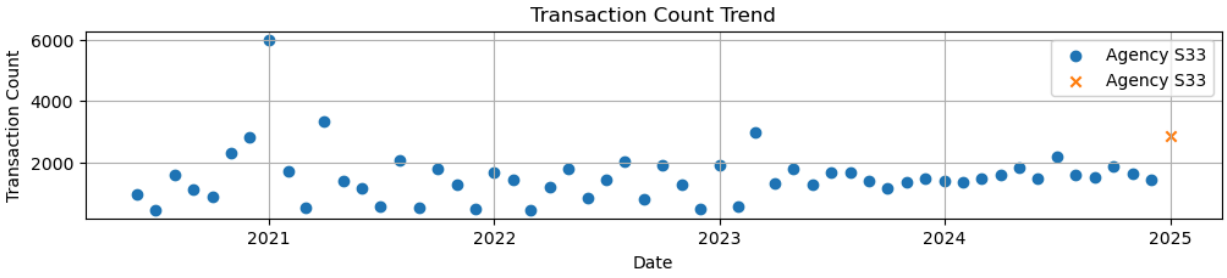


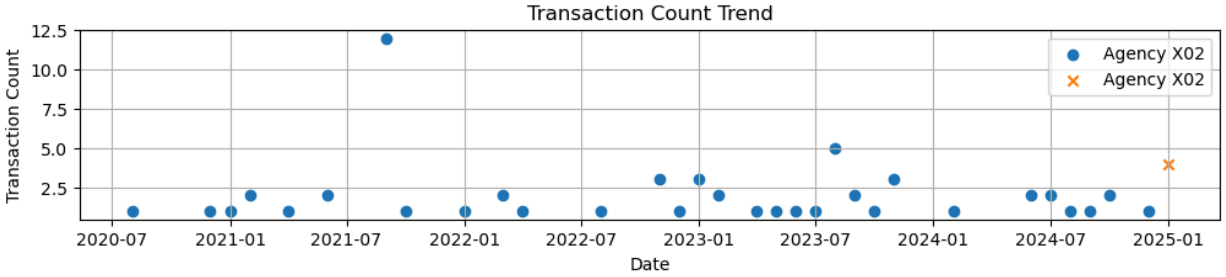








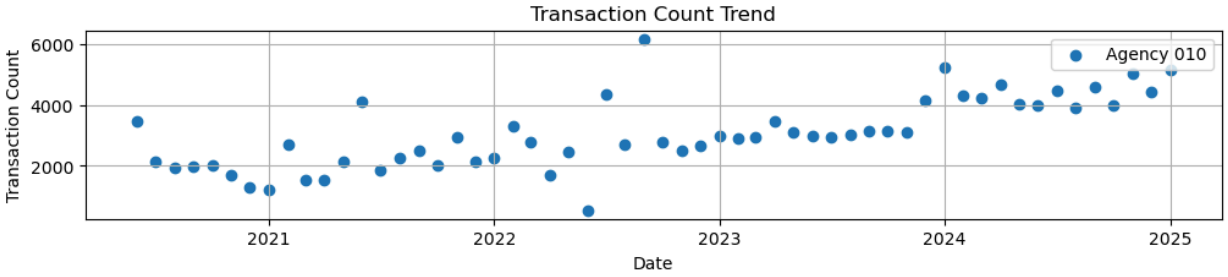


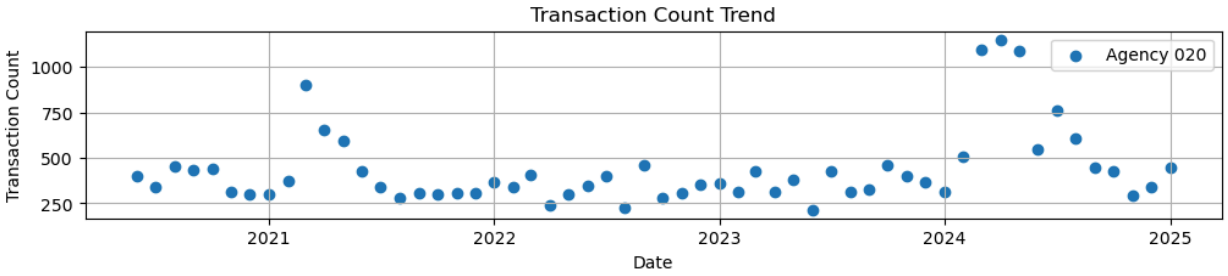


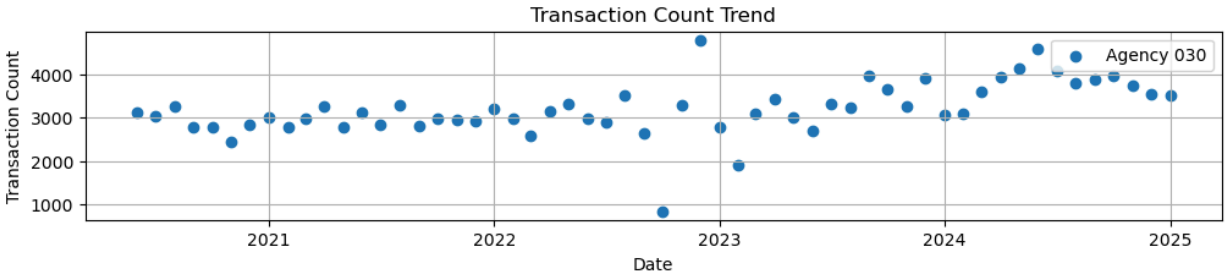
11 - Predicted as Normal

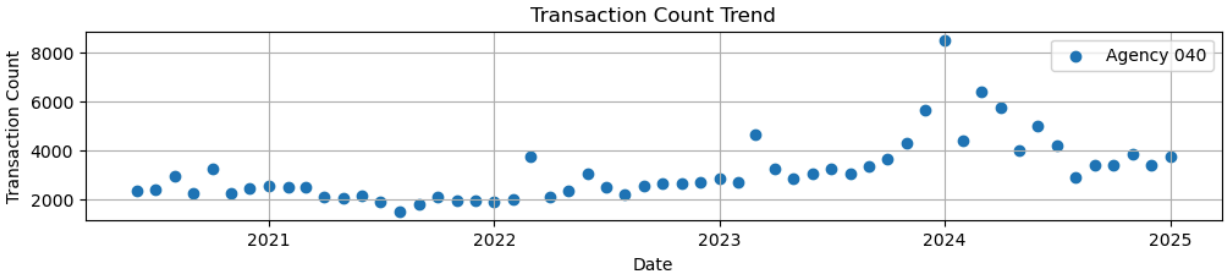
In [178…

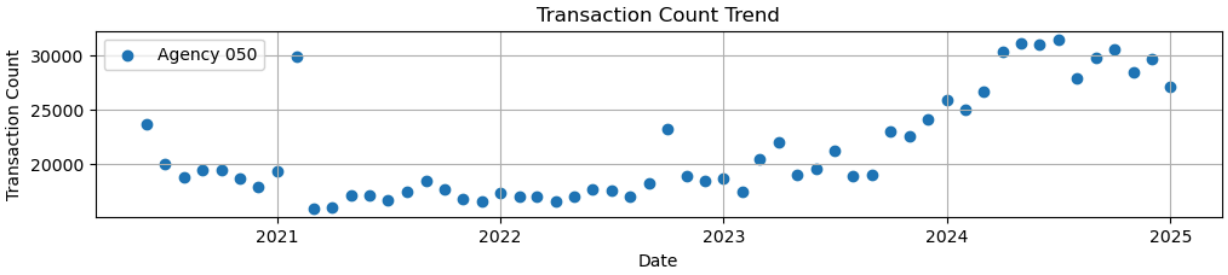
```
for agency in sorted(combined.query("status=='new' and tpmi_trans_cd=='11' and outlier
    show_outliers(combined, '11', [agency])
```

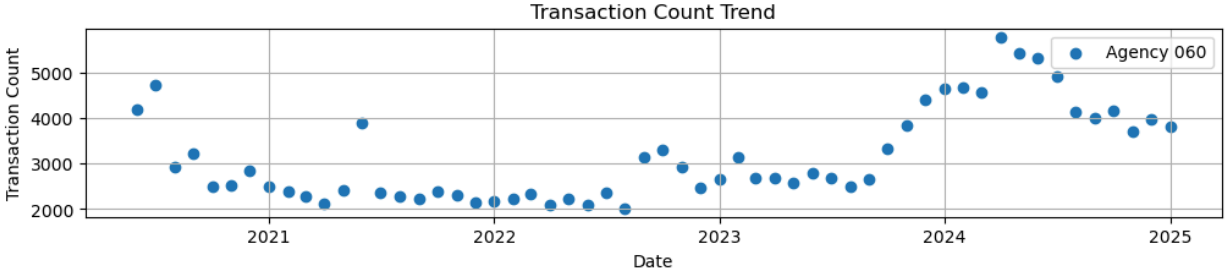


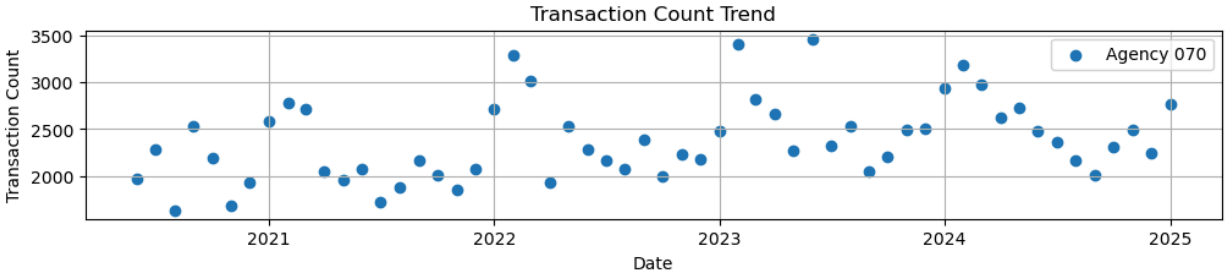








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Transaction Count
Date
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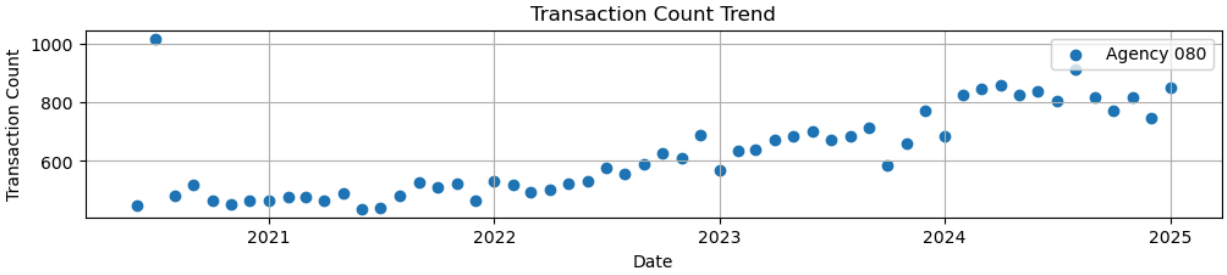
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Transaction Count
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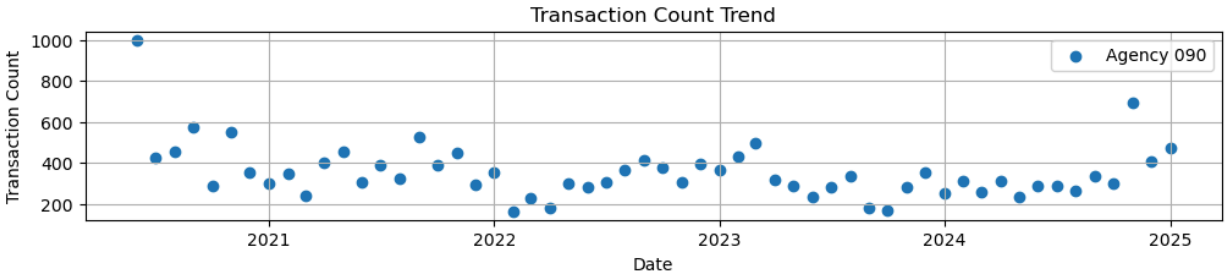
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Transaction Count
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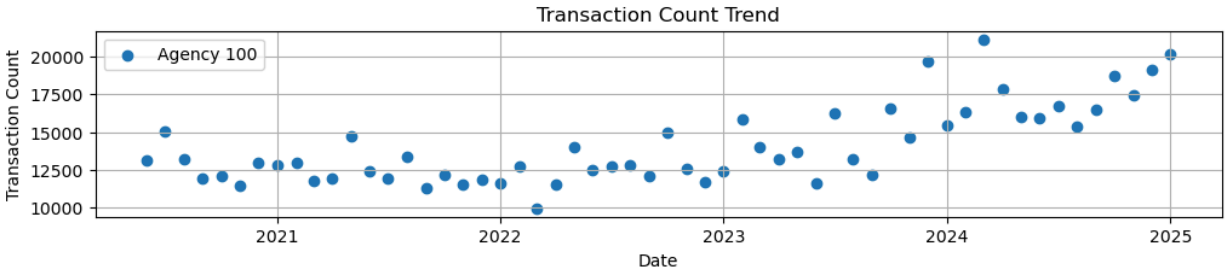
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Transaction Count
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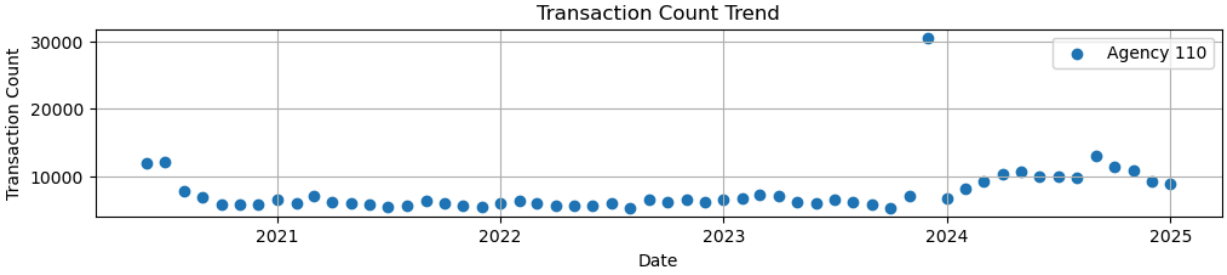
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Transaction Count
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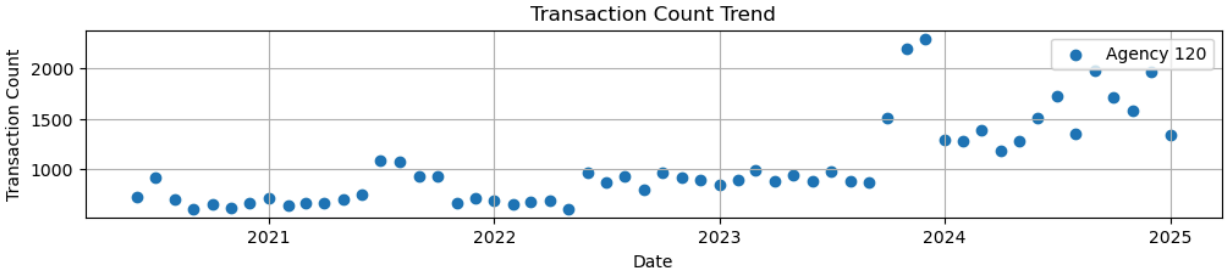
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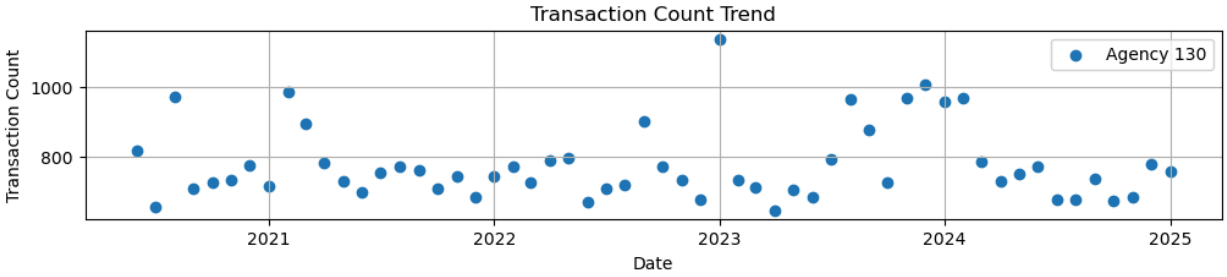
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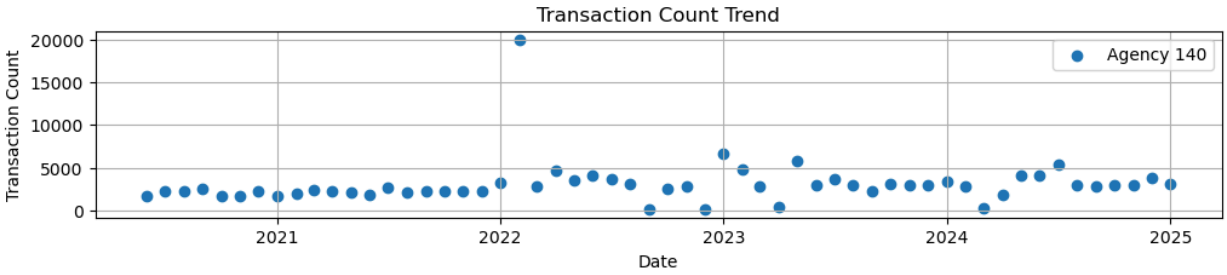
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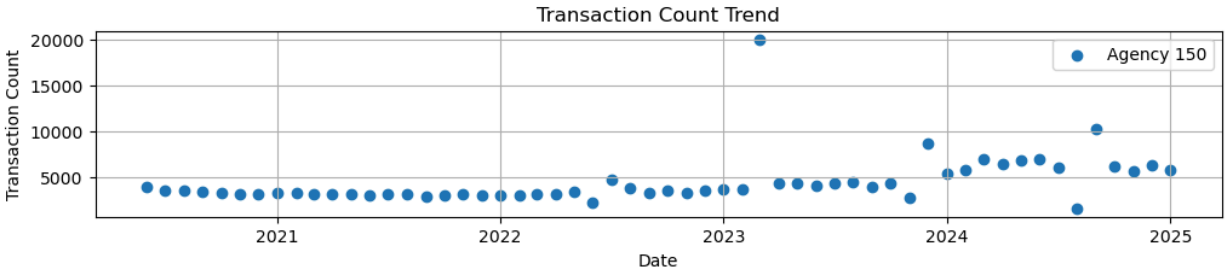
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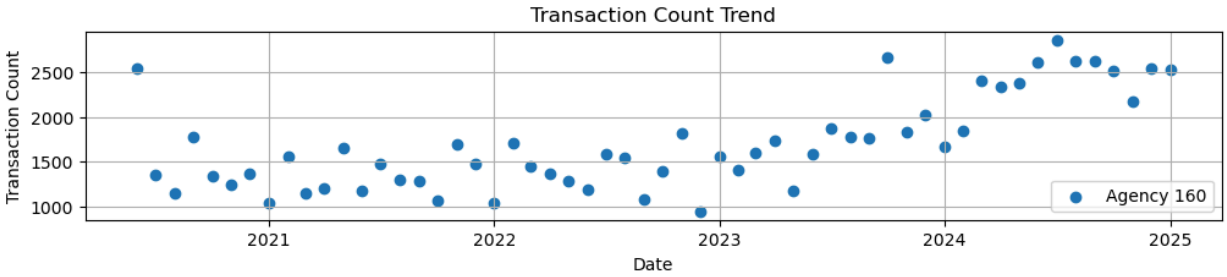
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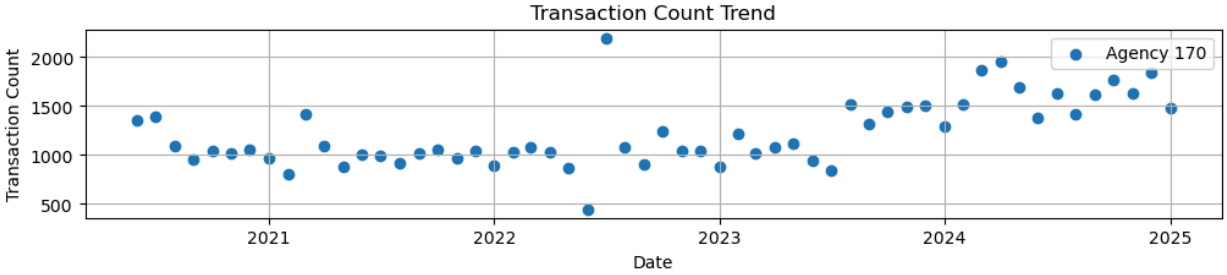
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Agency 170
Transaction Count
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2021
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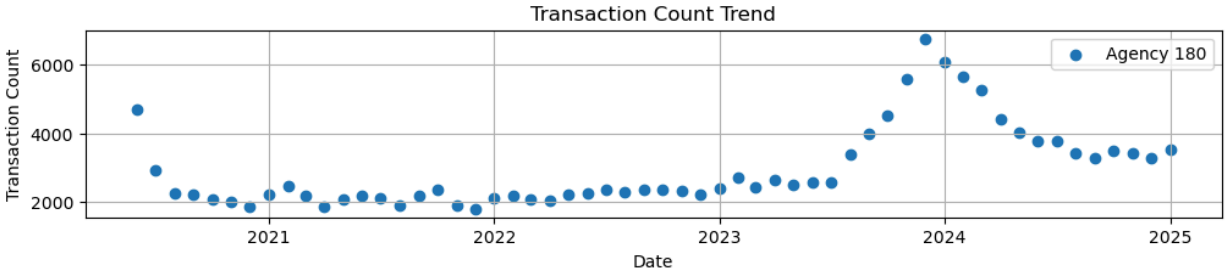
2024
2025
Date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Agency 180
Transaction Count
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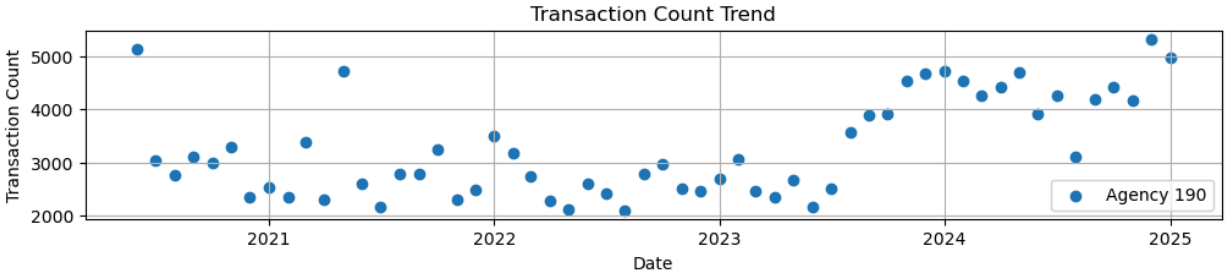
Date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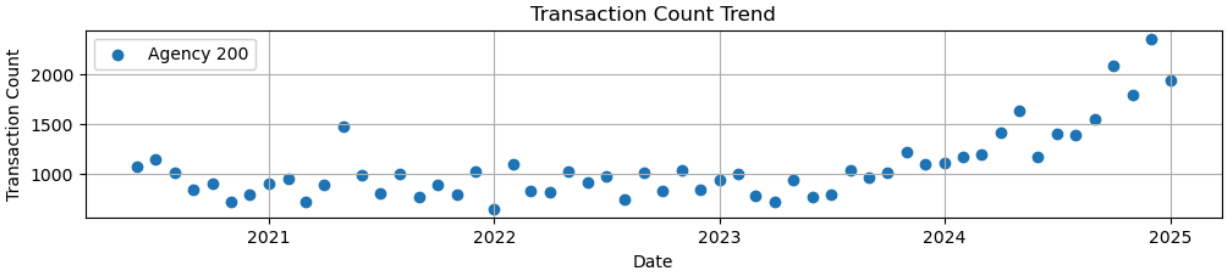
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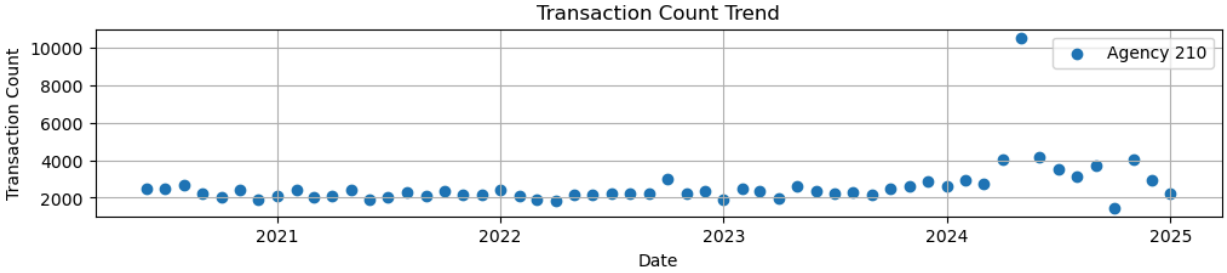
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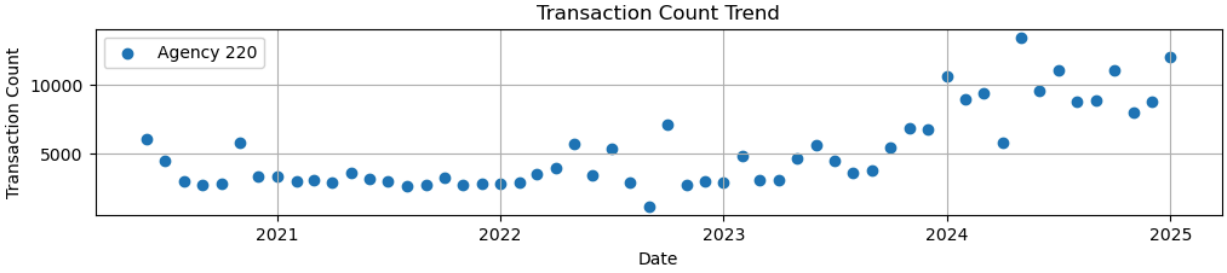
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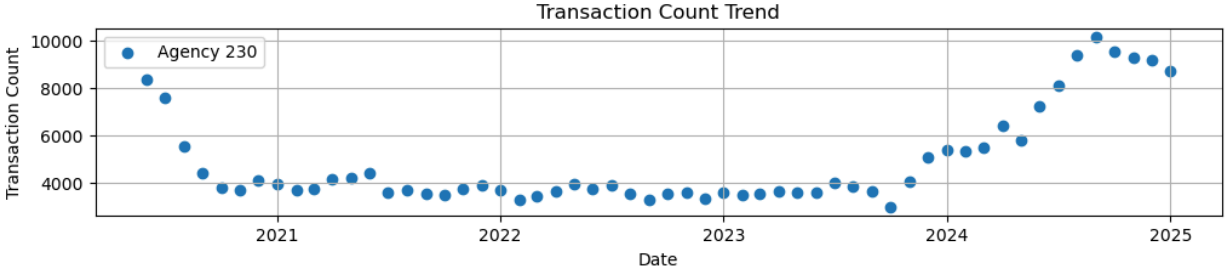
Transaction Count Trend
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10000
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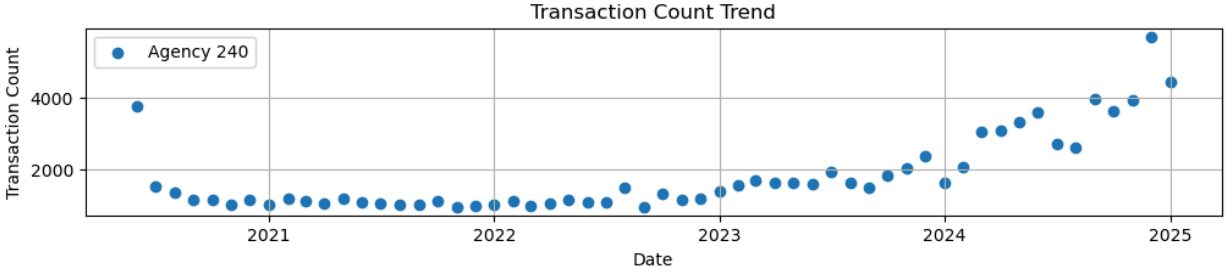
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Transaction Count
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Agency 240
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2022
2023
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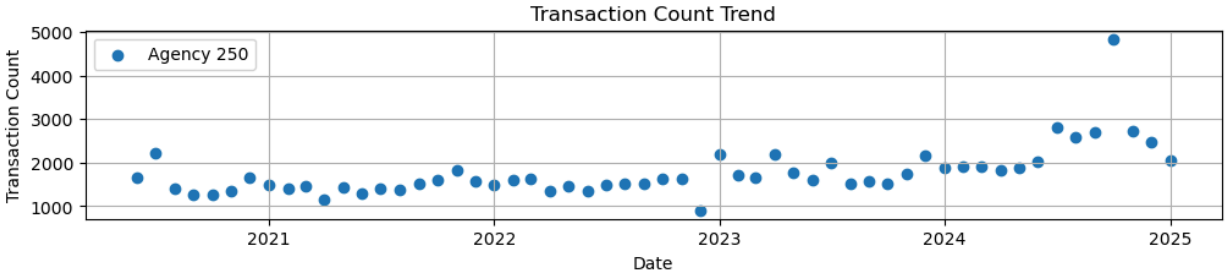
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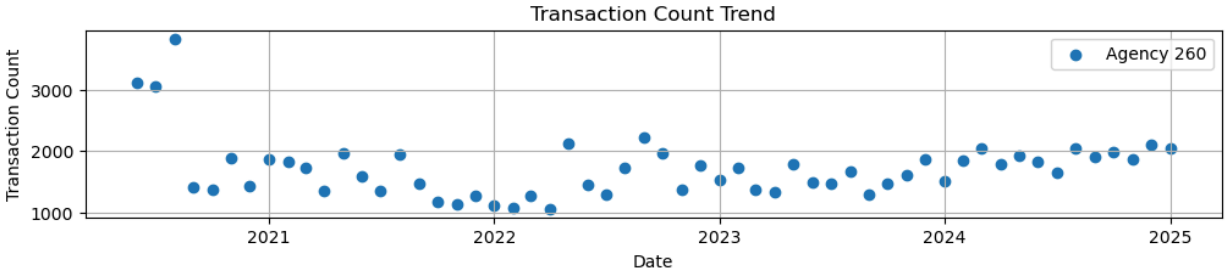
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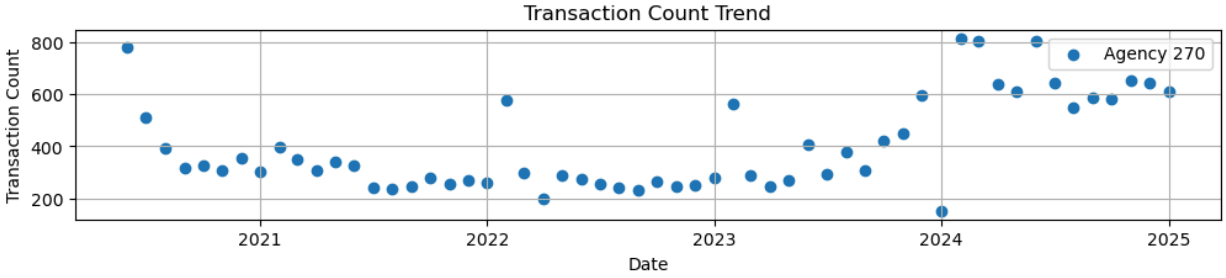
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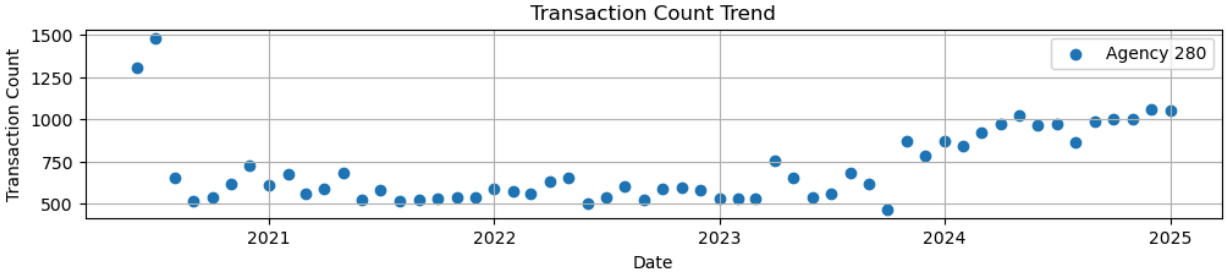
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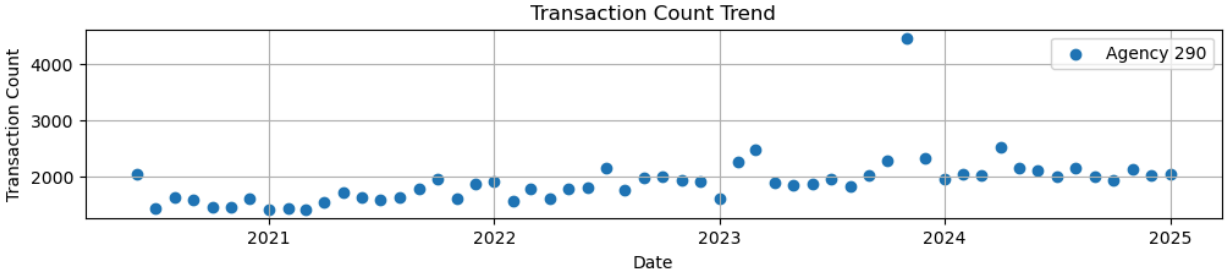
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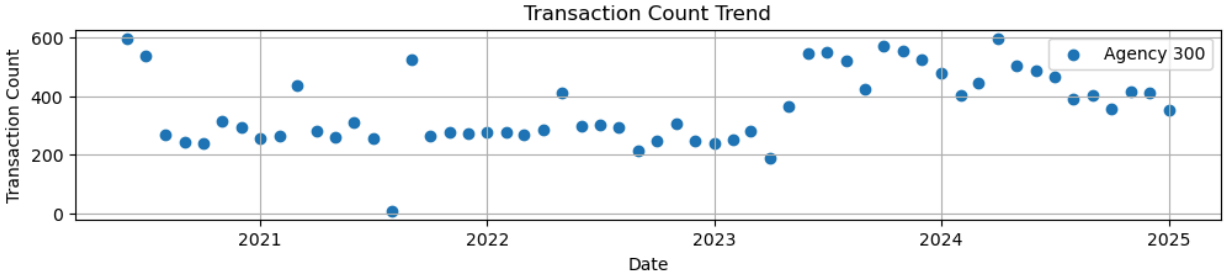
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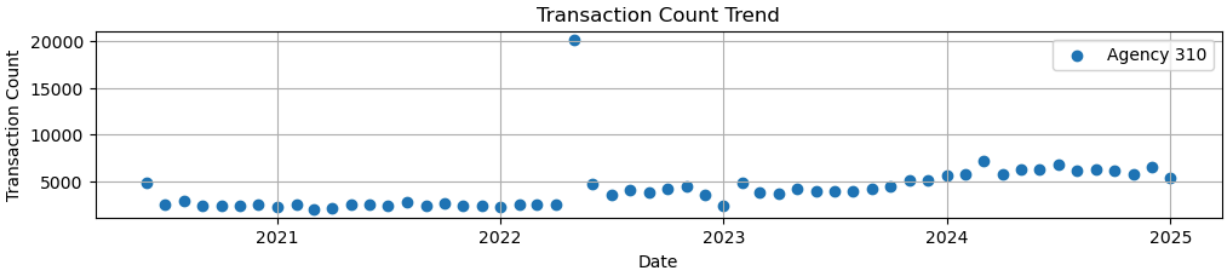
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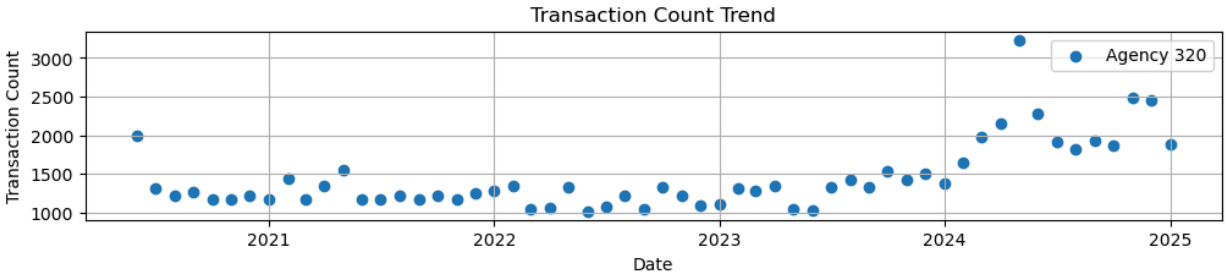
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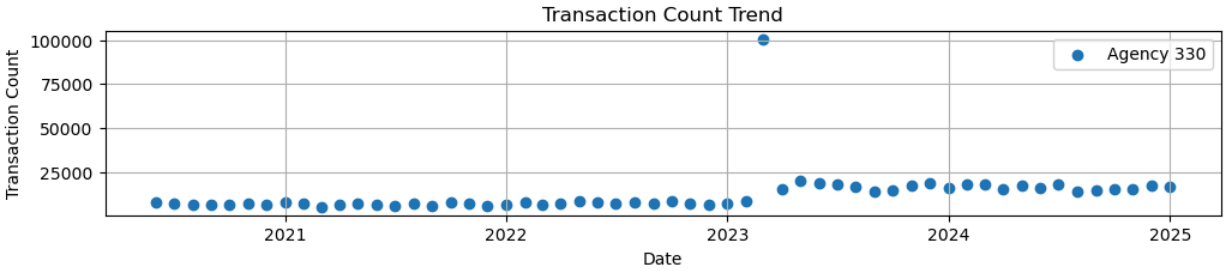
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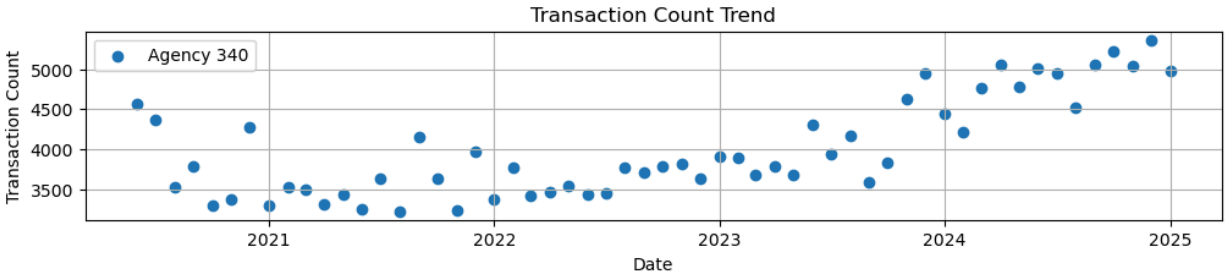
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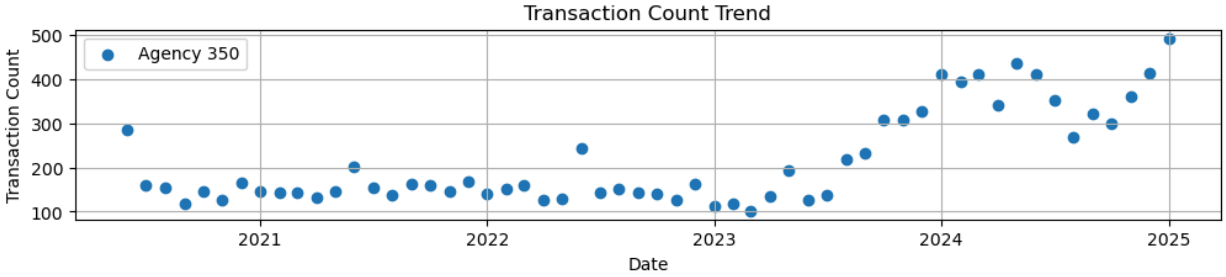
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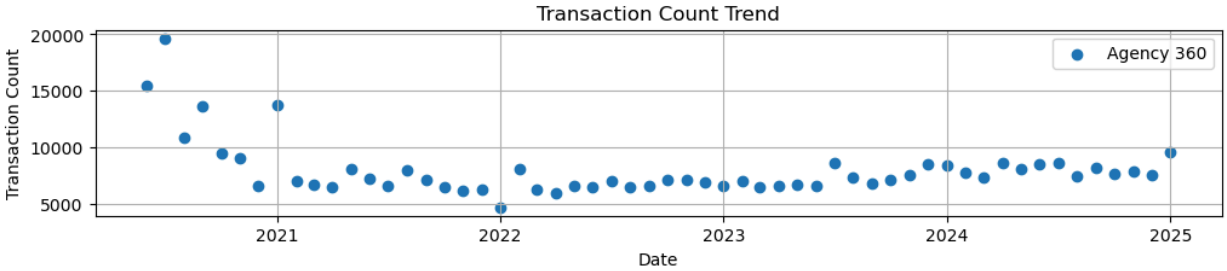
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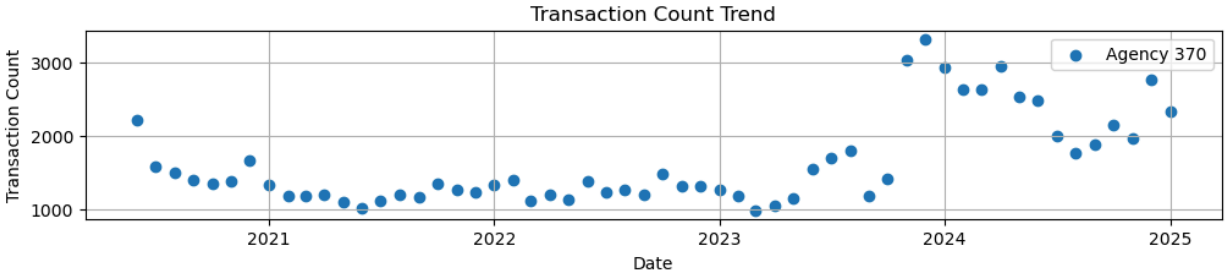
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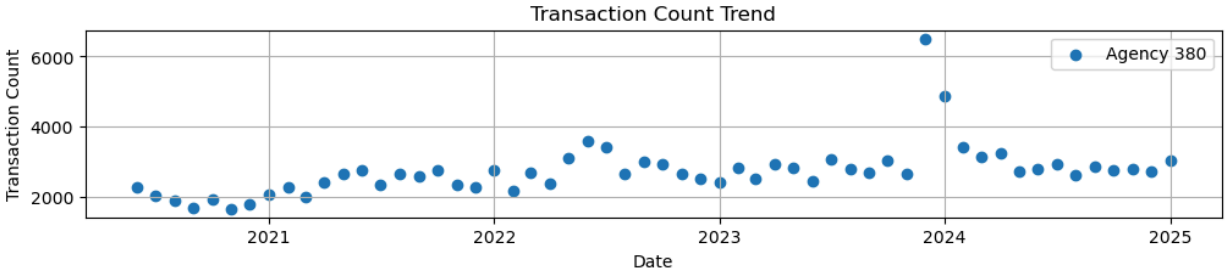
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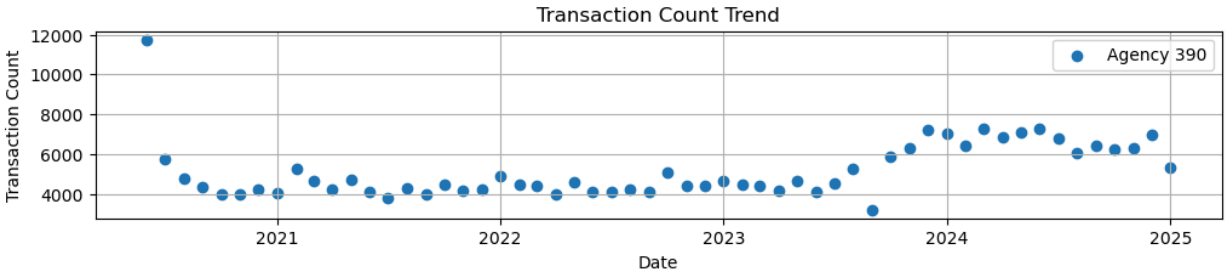
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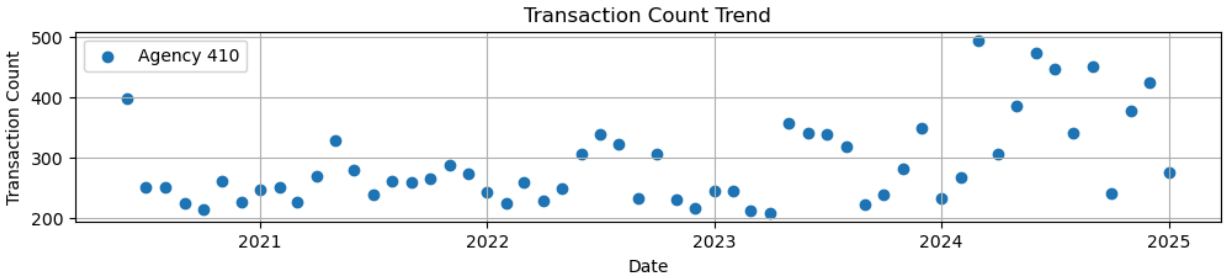
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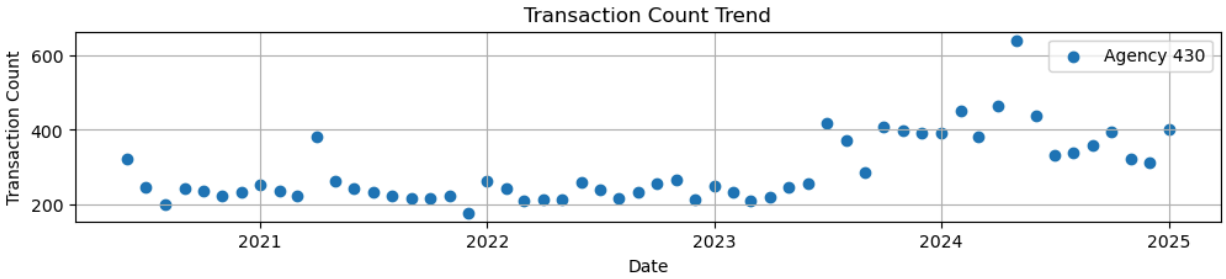
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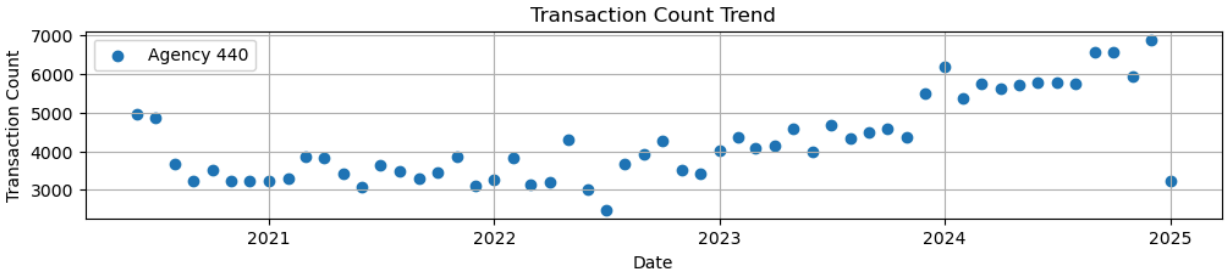
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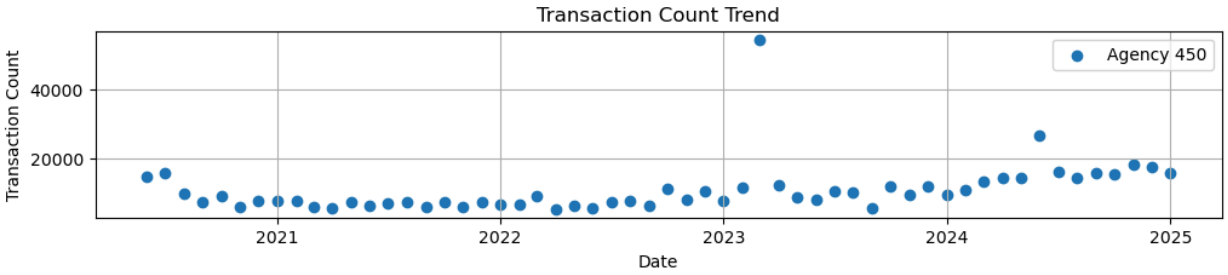
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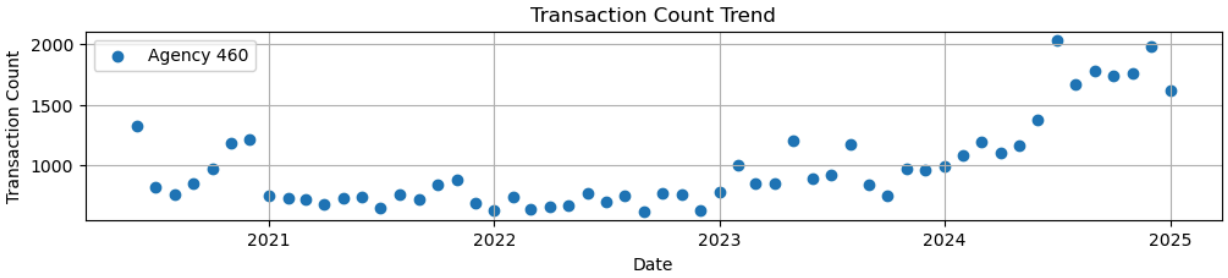
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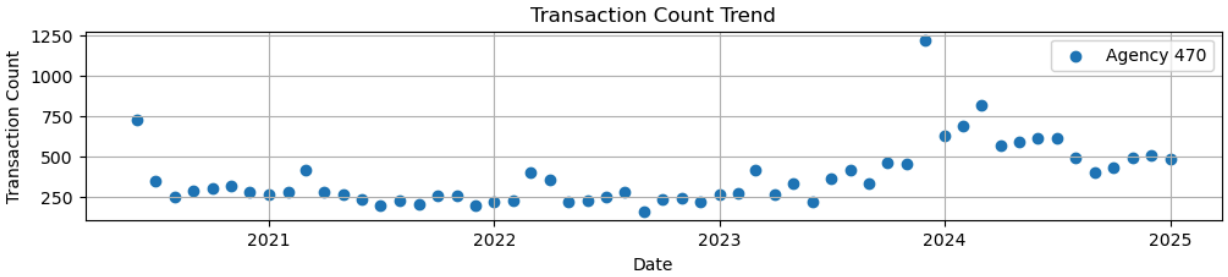
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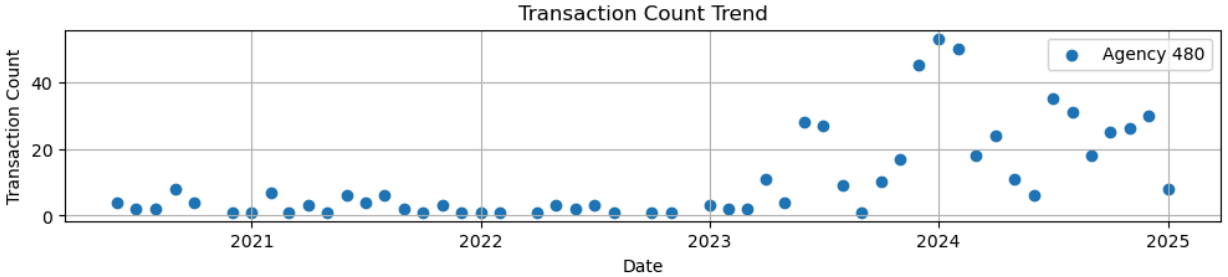
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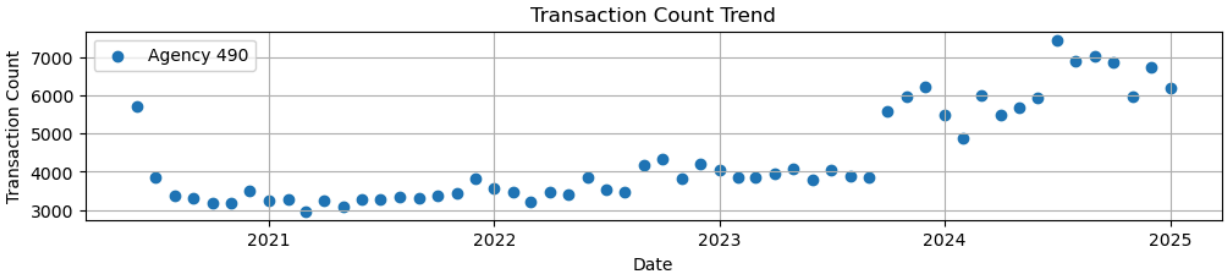
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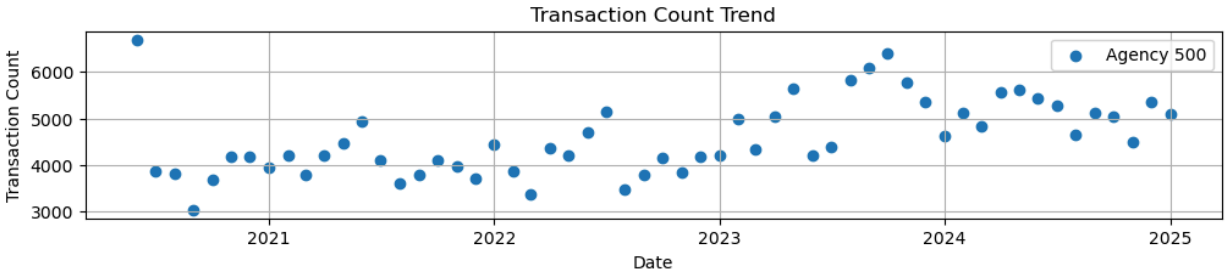
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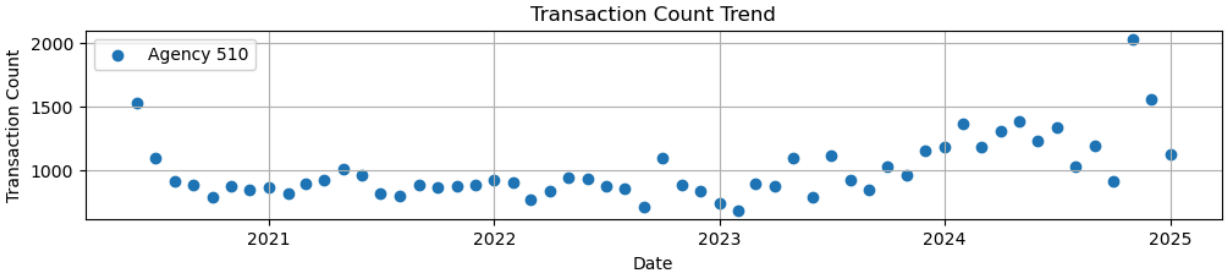
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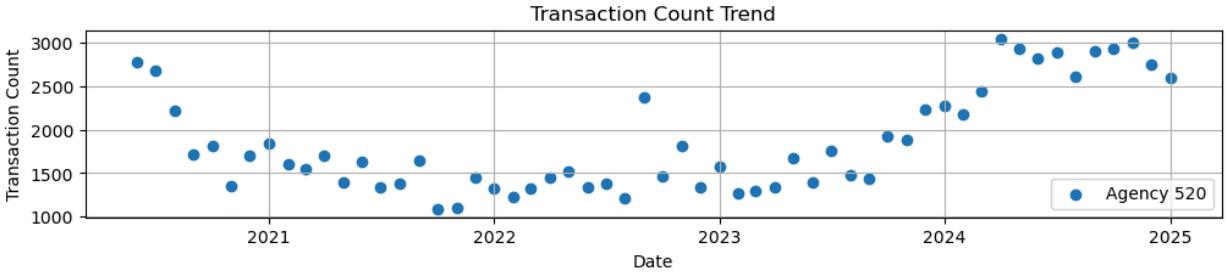
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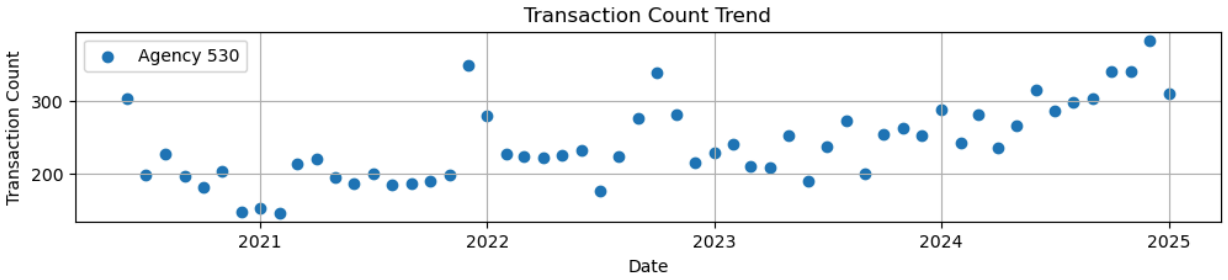
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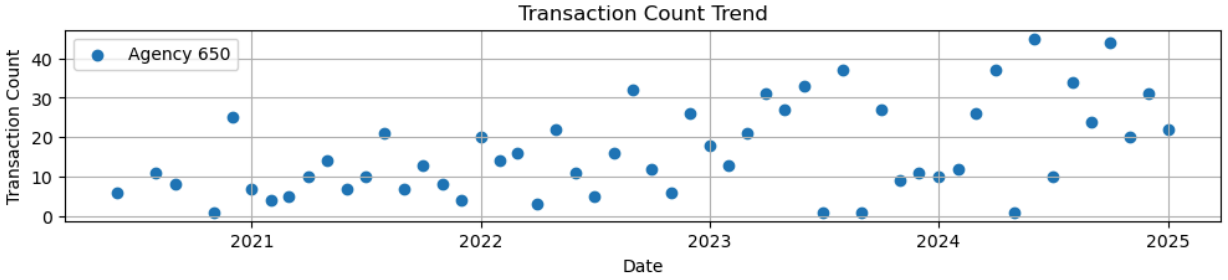
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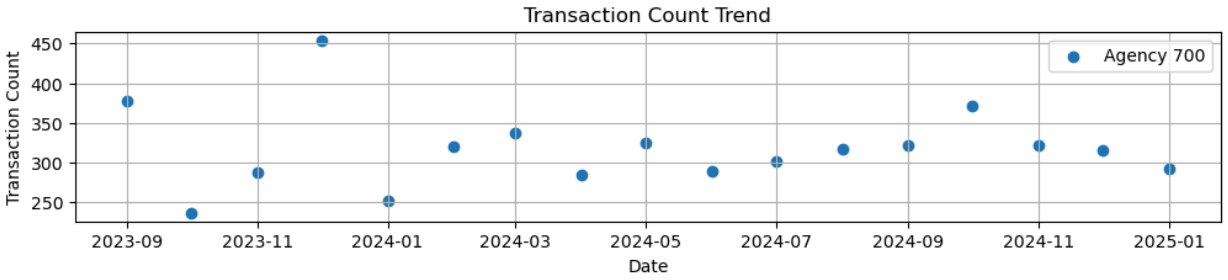
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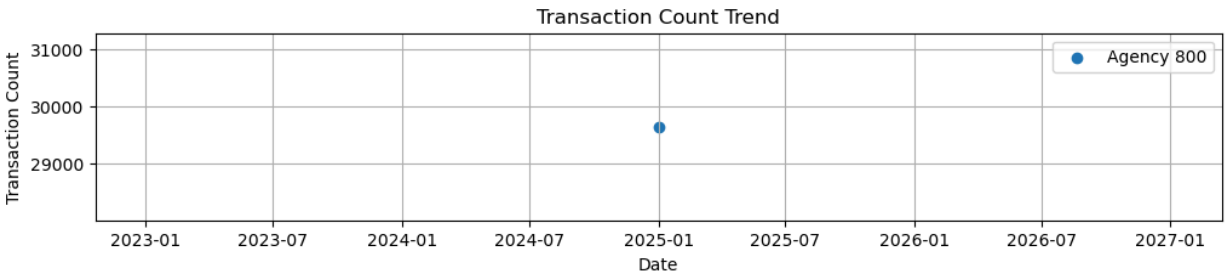
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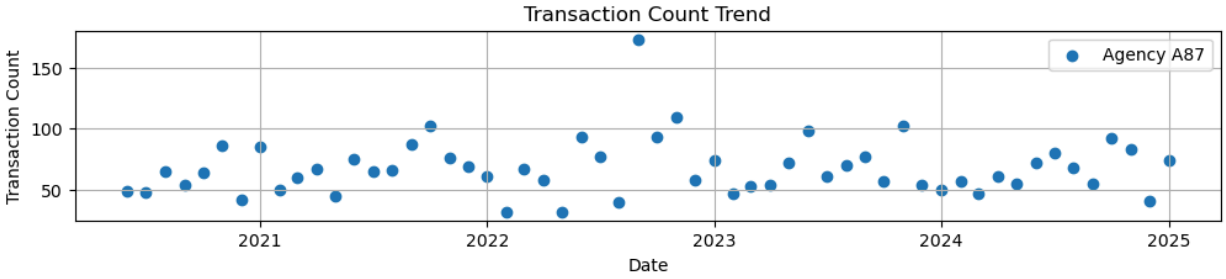
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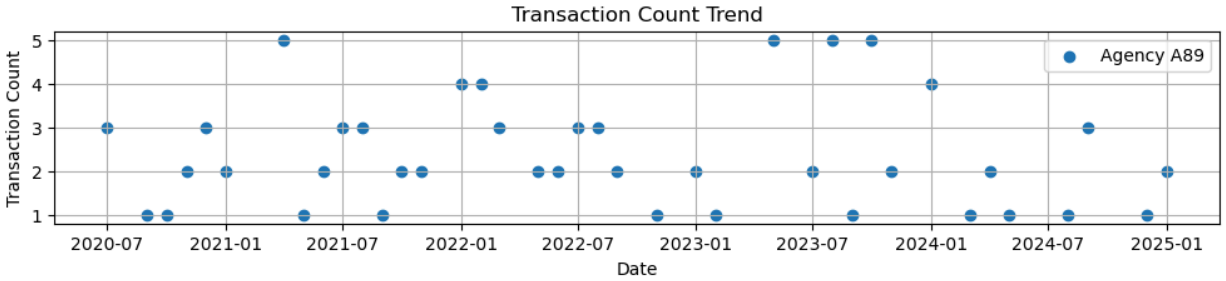
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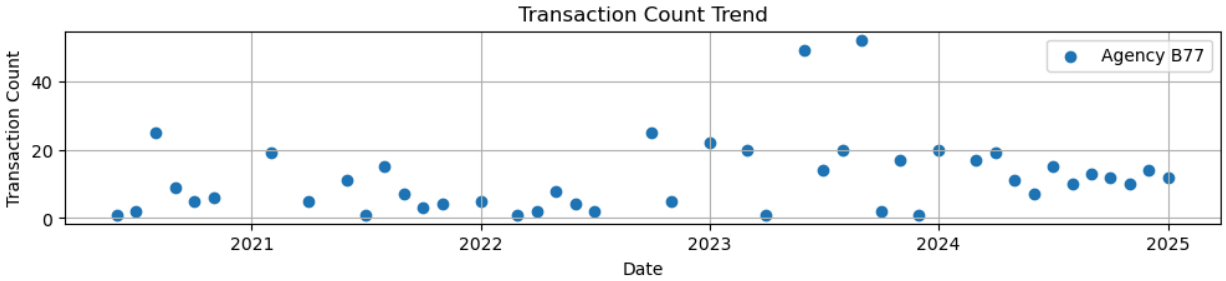
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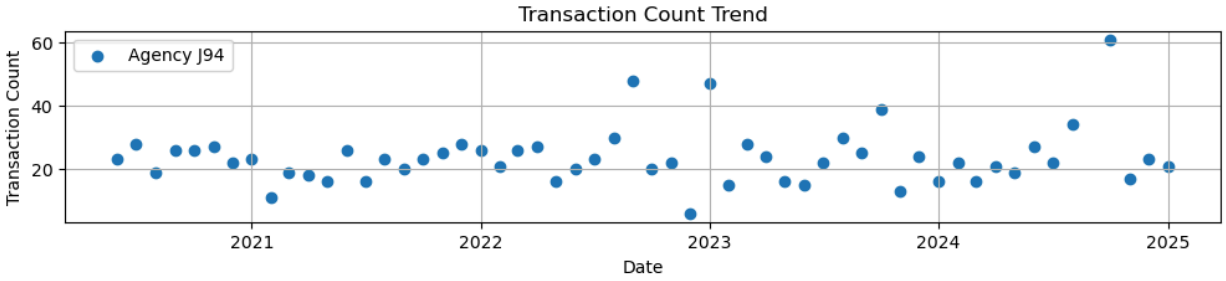
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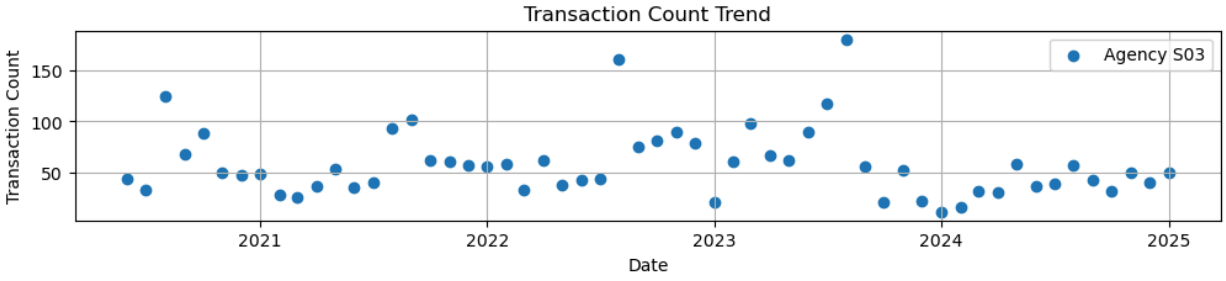
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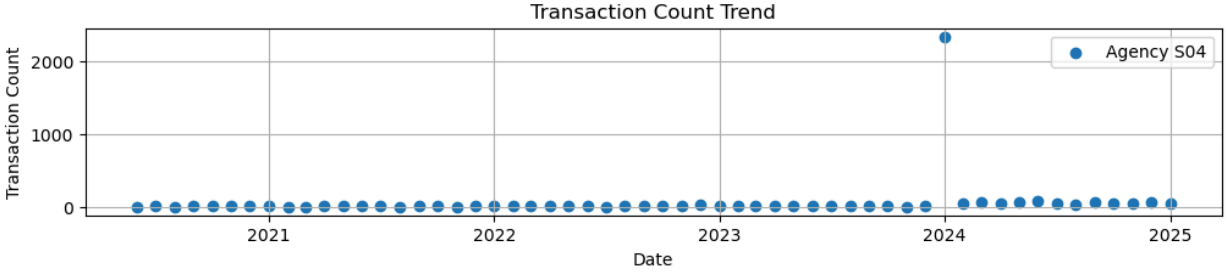
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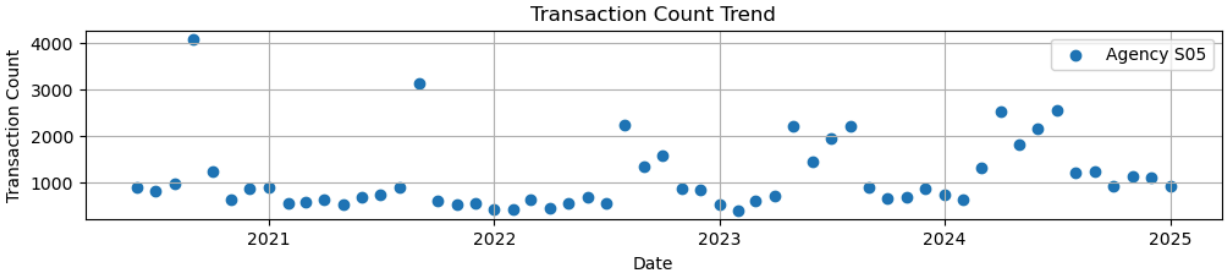
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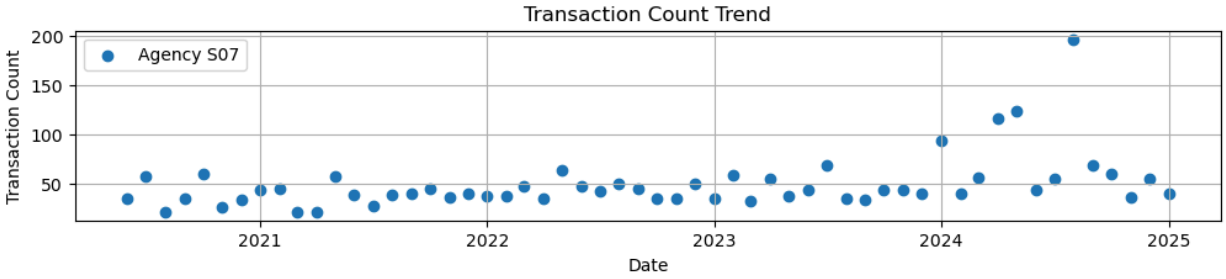
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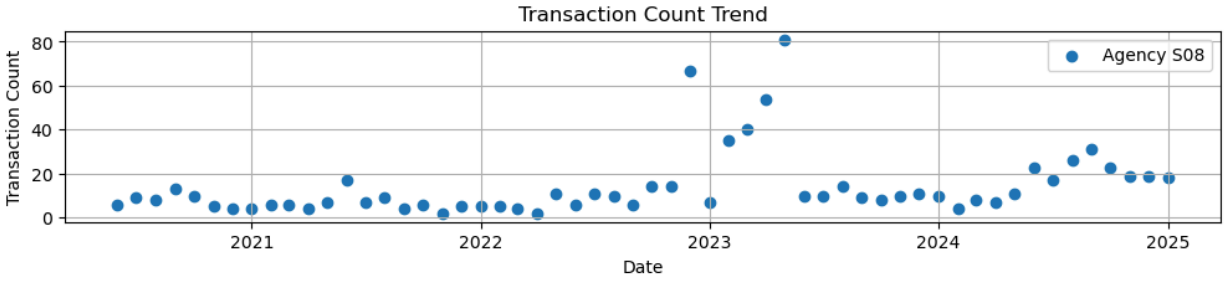
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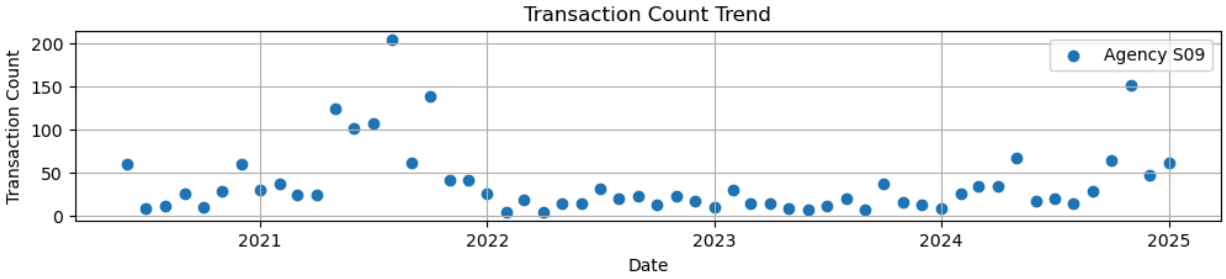
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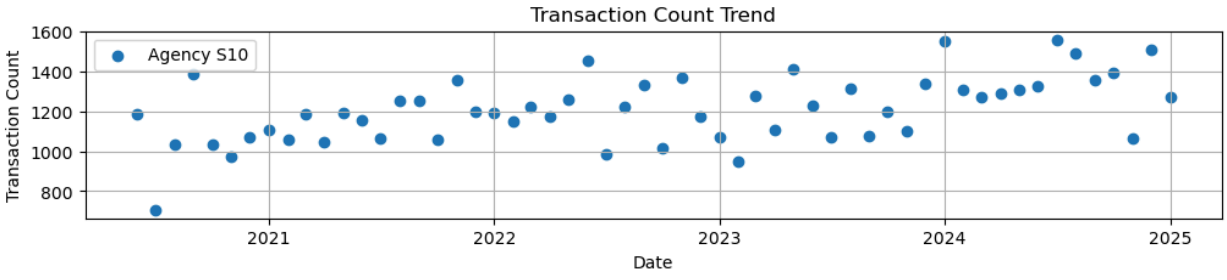
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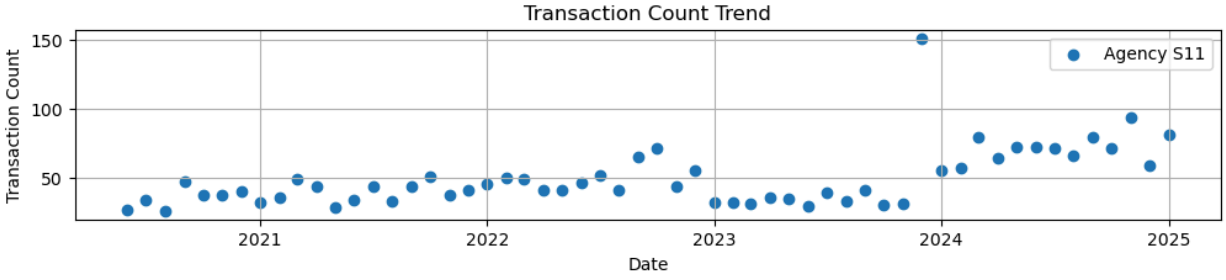
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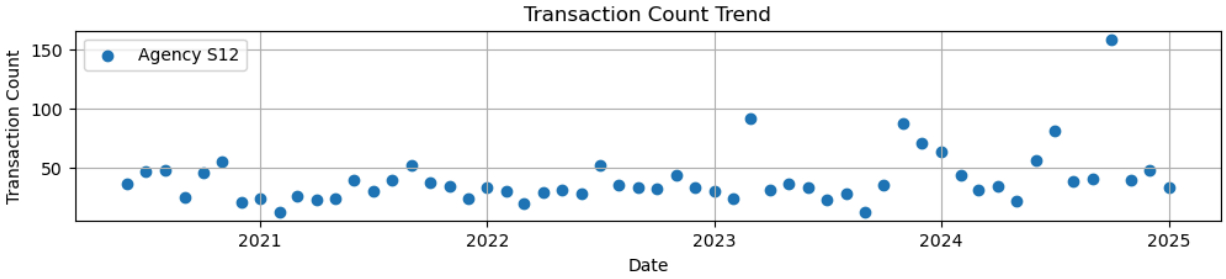
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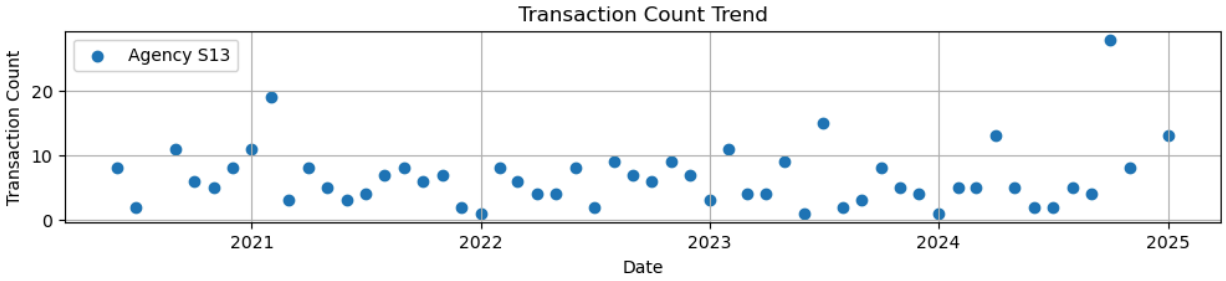
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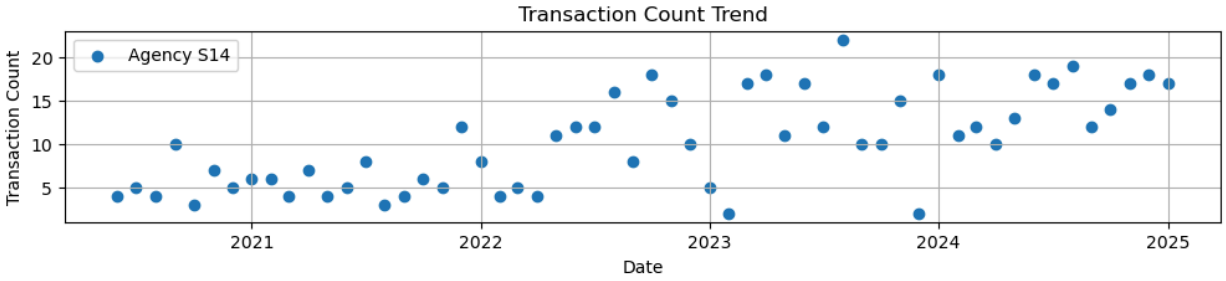
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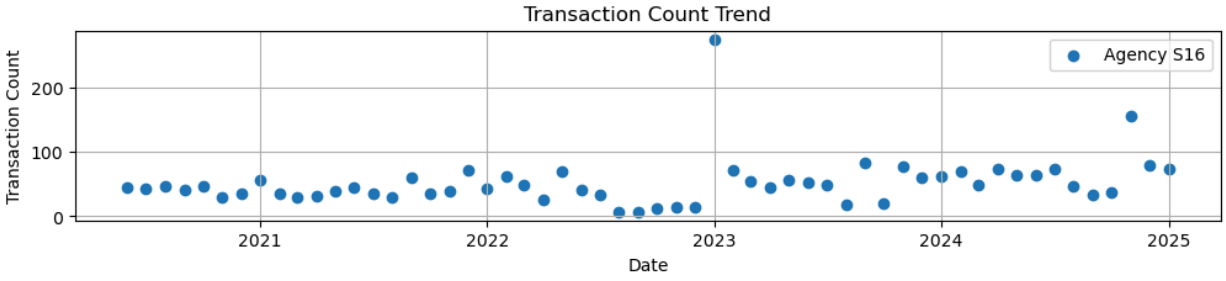
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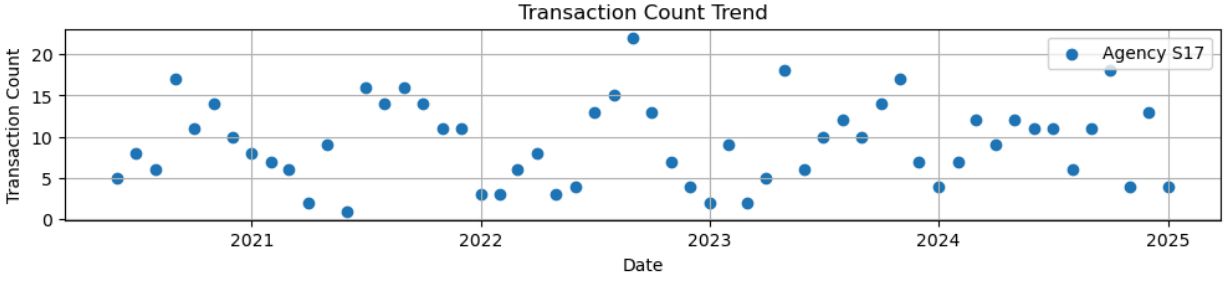
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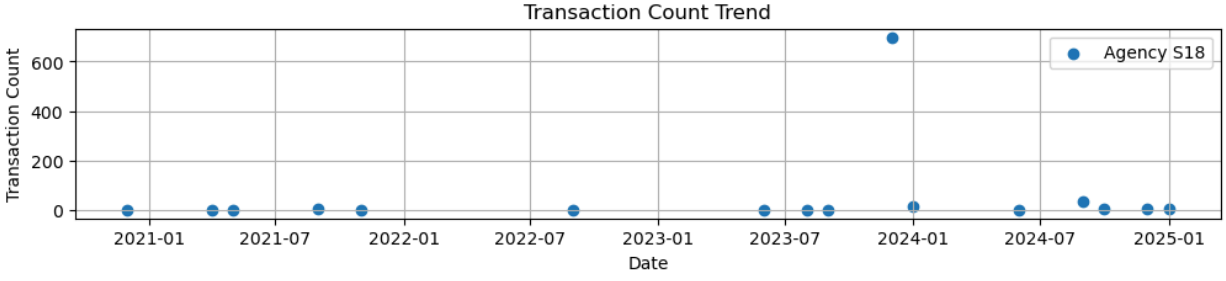
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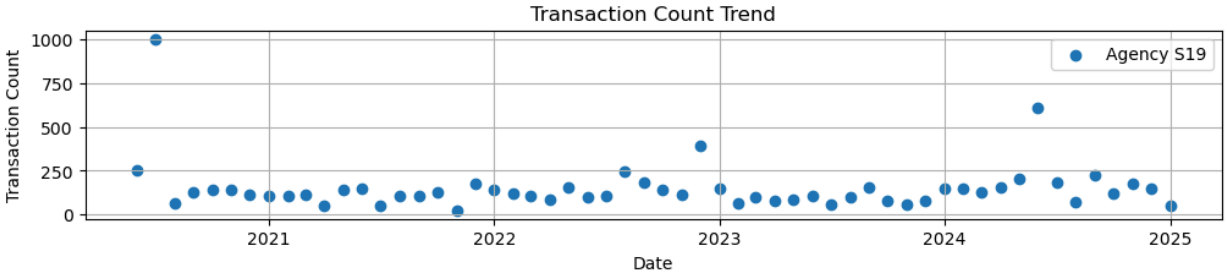
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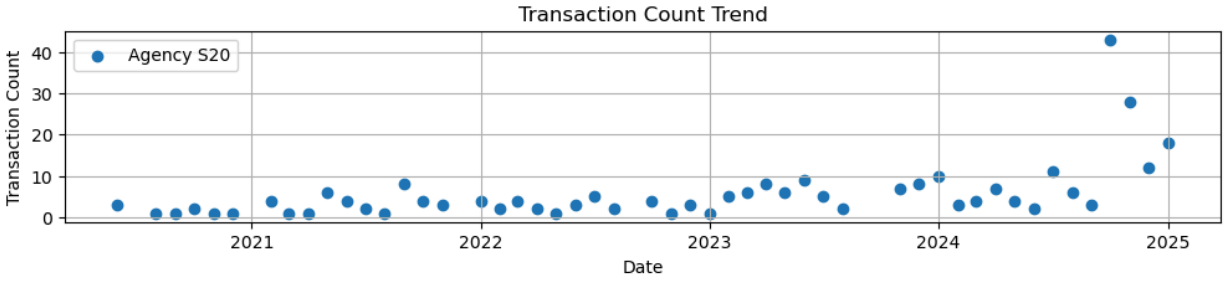
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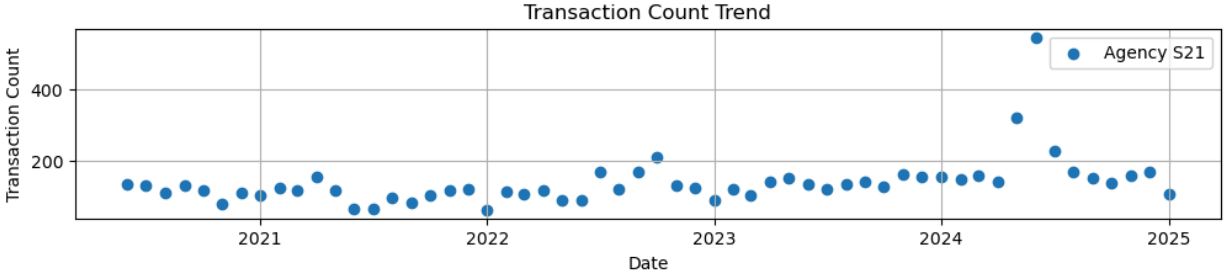
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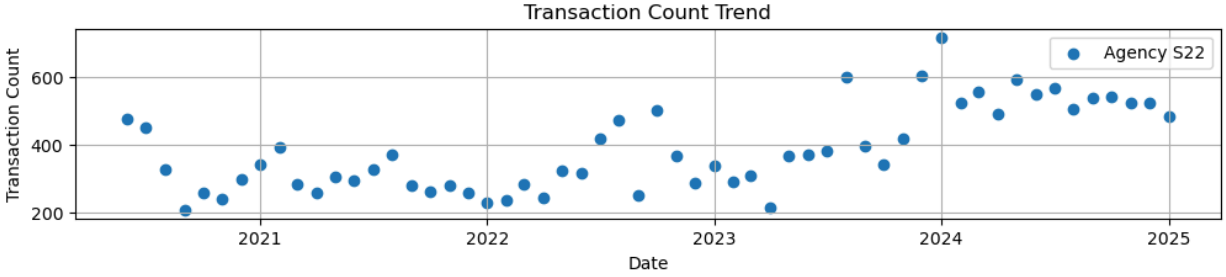
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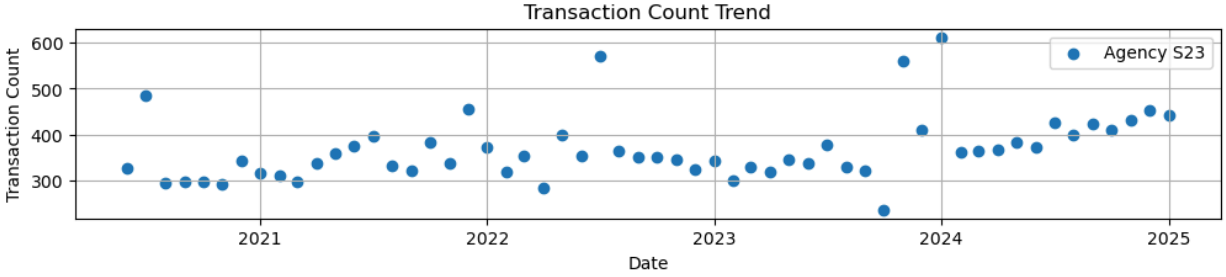
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Date
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600
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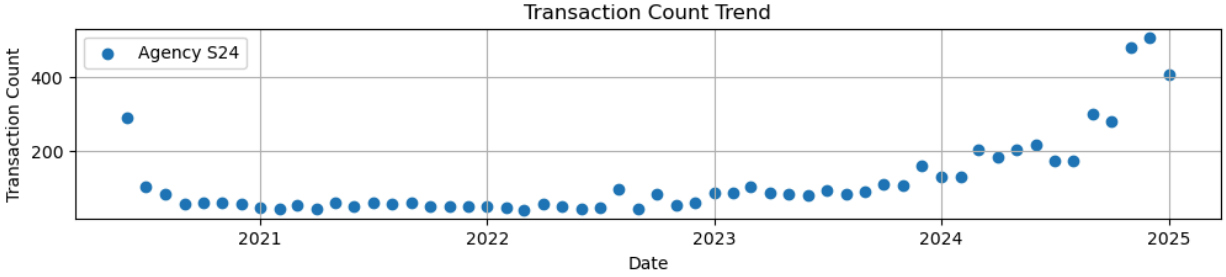
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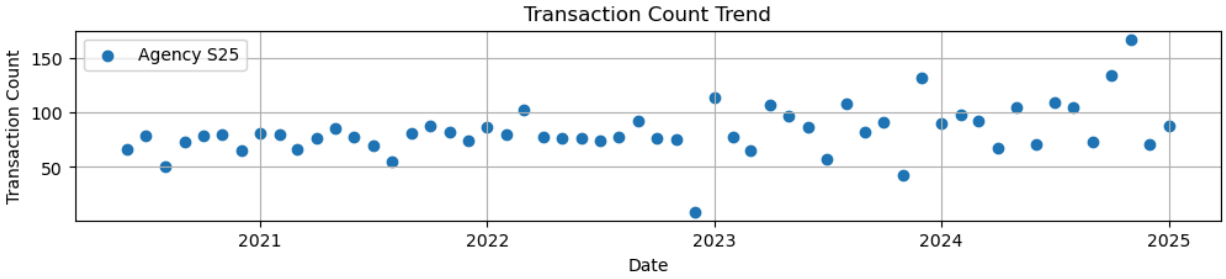
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Transaction Count
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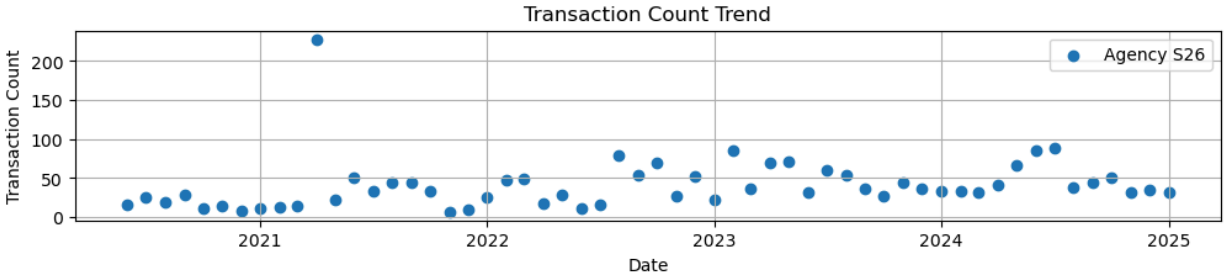
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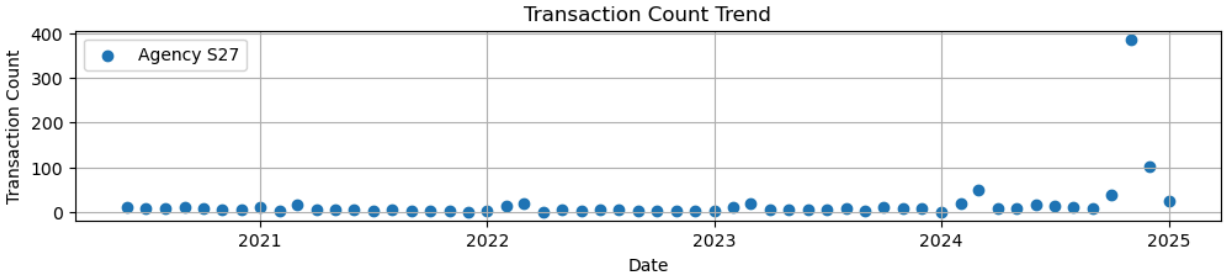
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Transaction Count
Date
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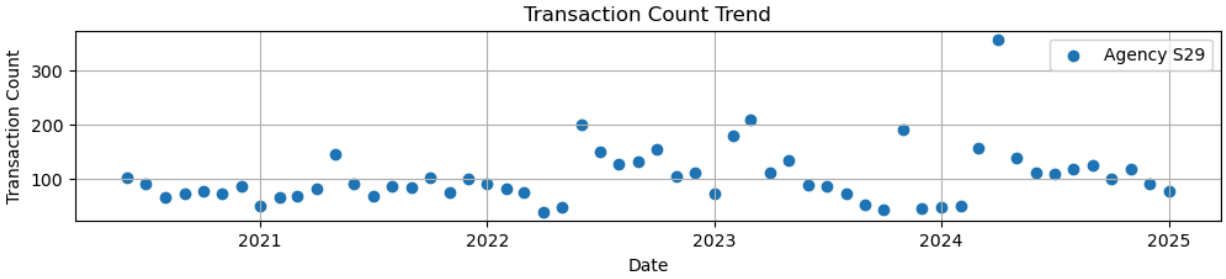
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Agency S29
Transaction Count
Date
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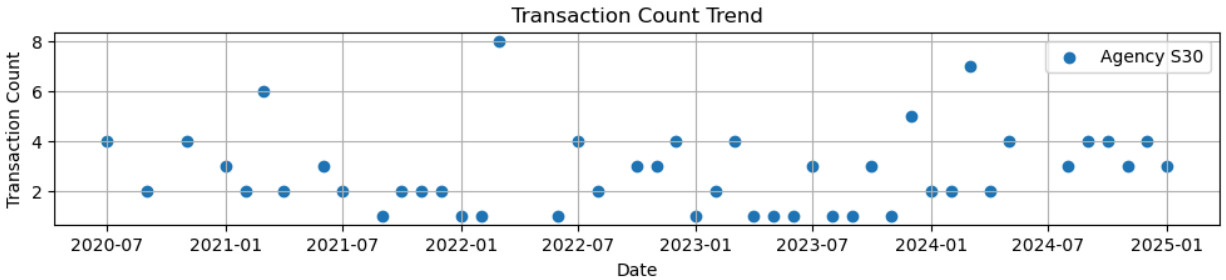
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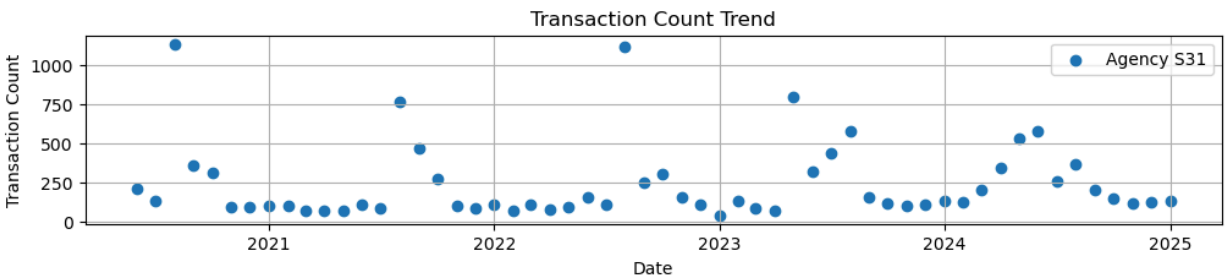
2025-01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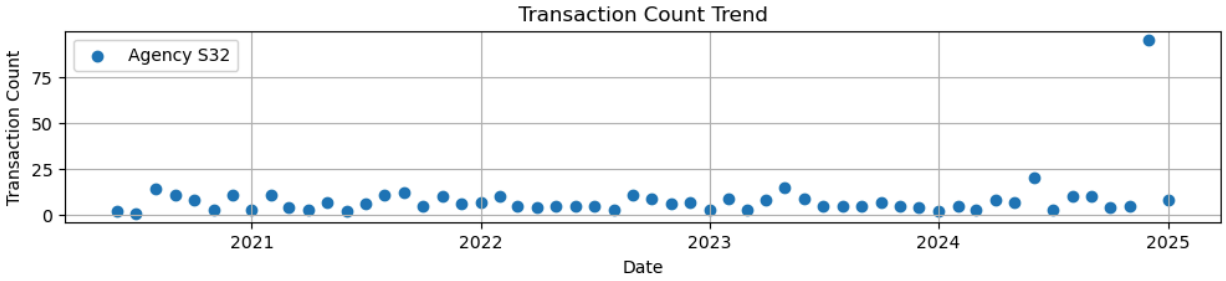
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Agency S32
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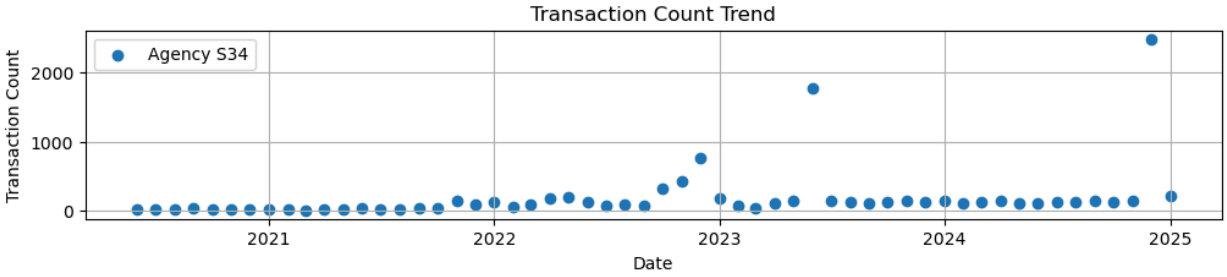
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2024
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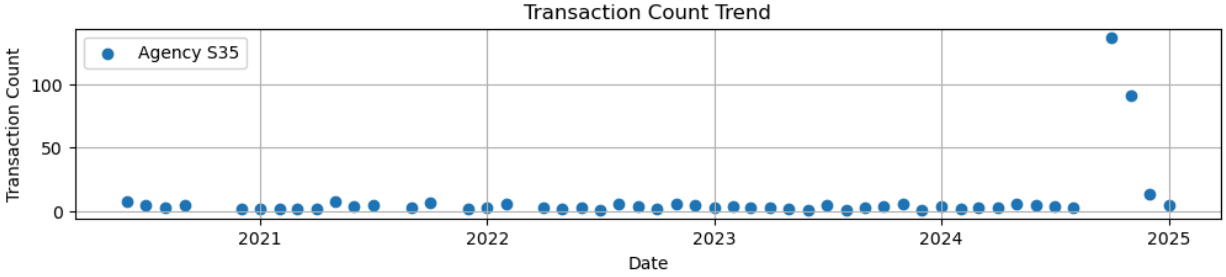
Date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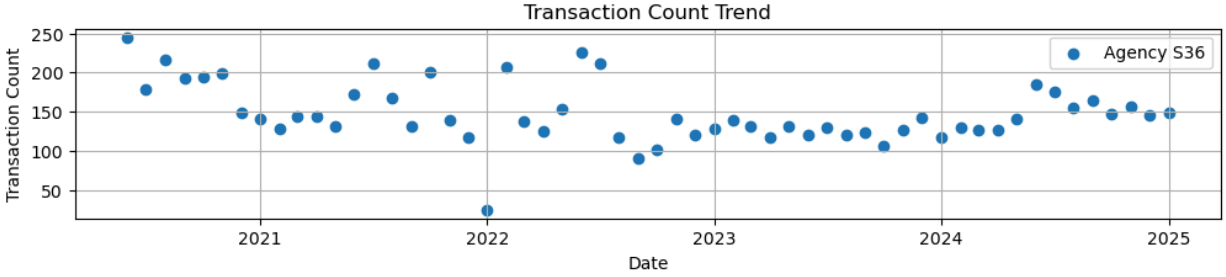
2023
2024
2025
Date


Transaction Count Trend
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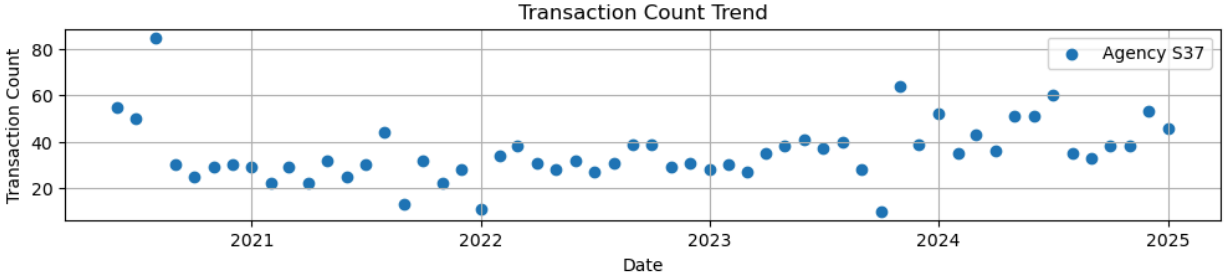
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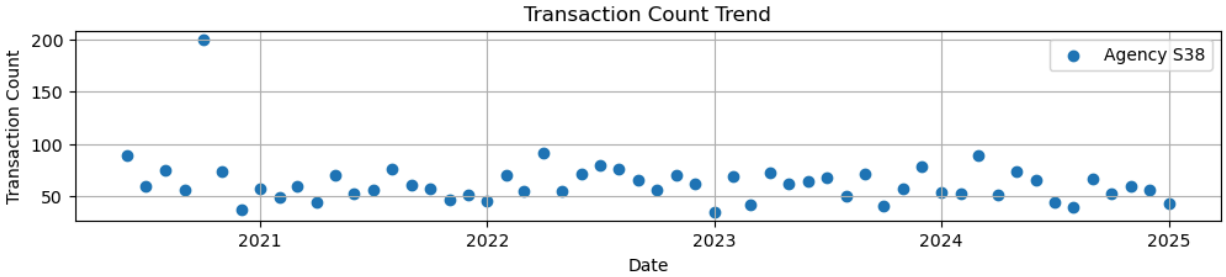
Date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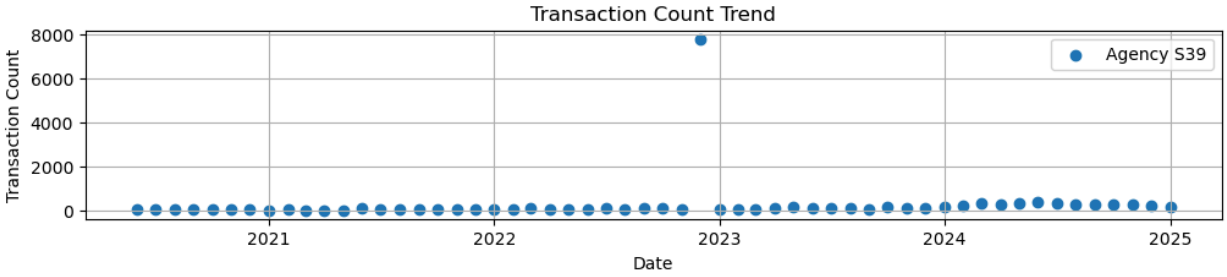
Date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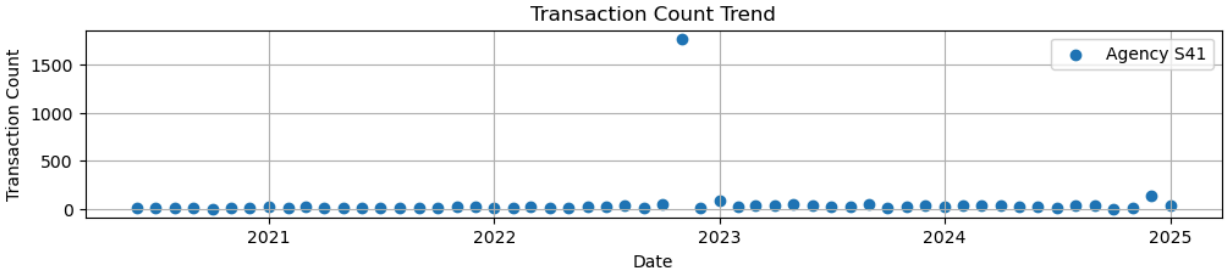
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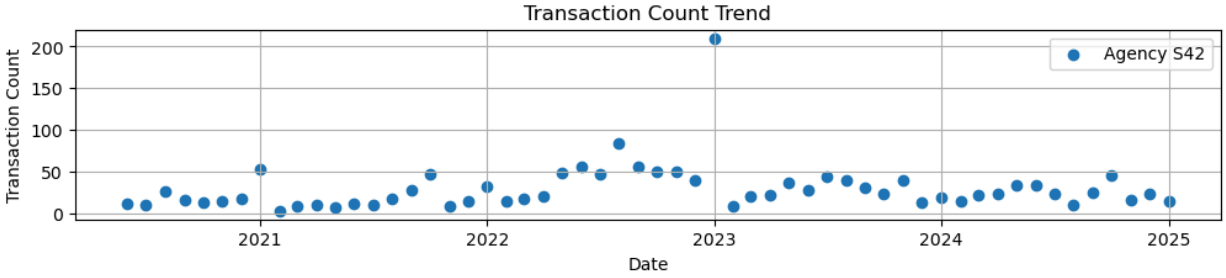
Transaction Count Trend
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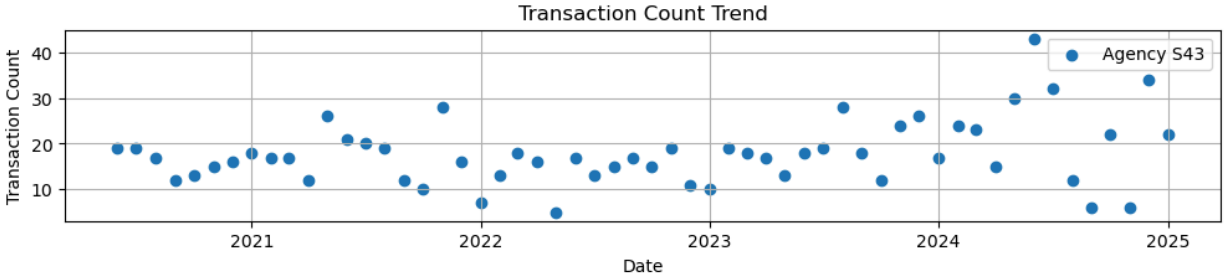
Date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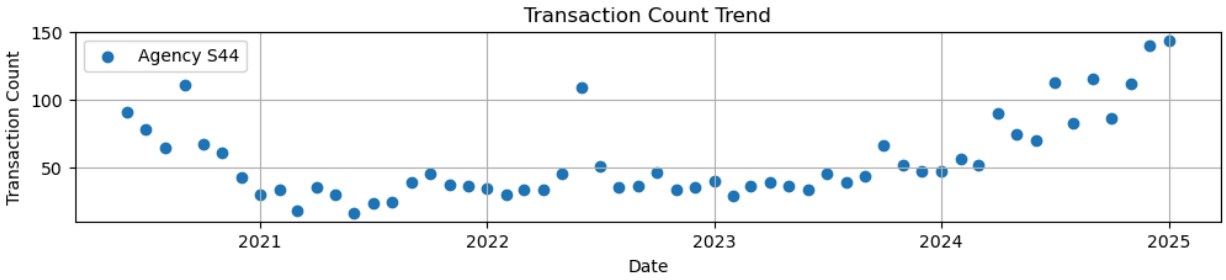
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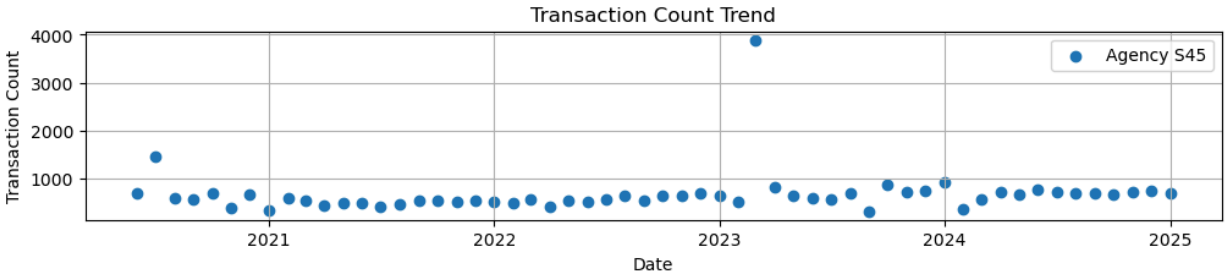
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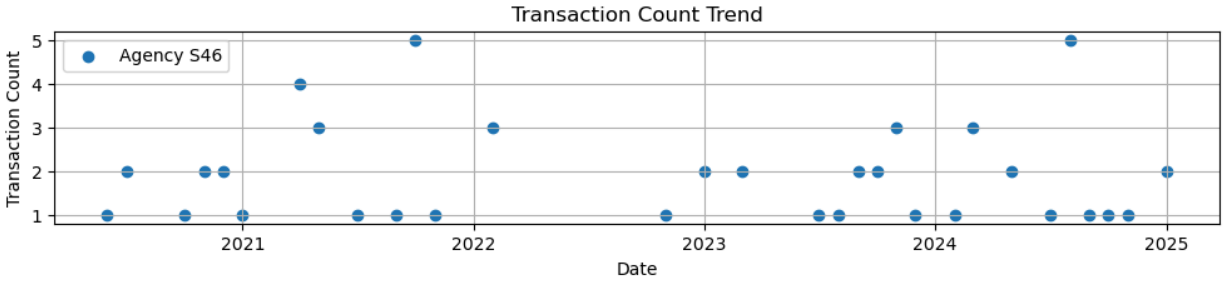
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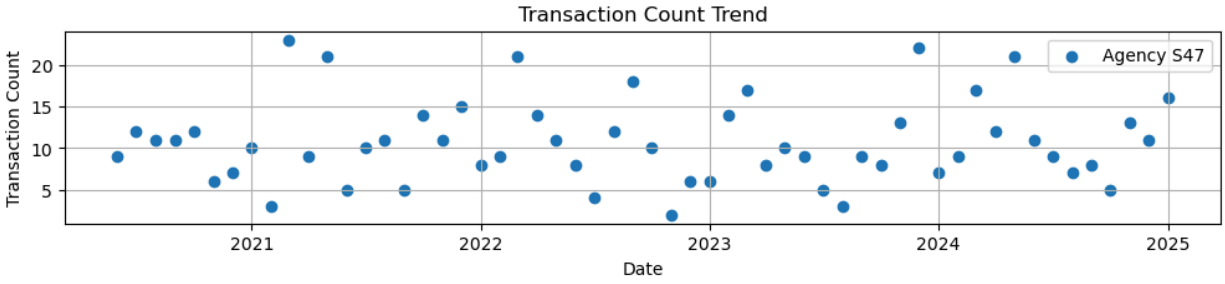
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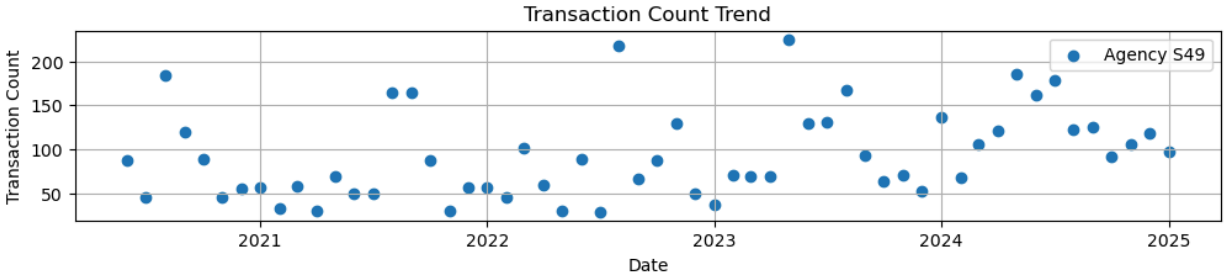
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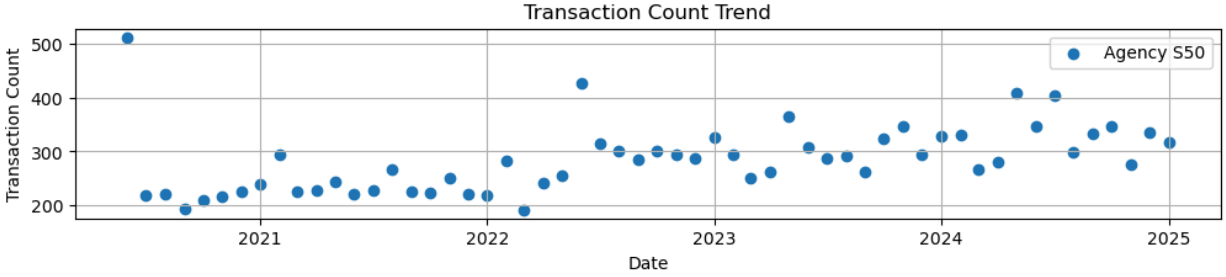
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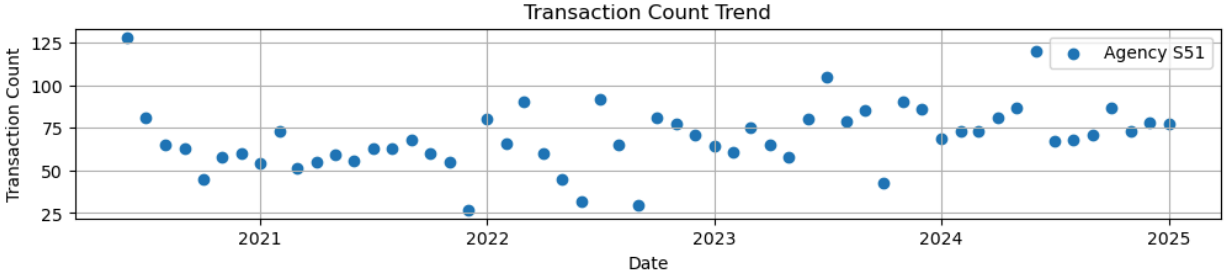
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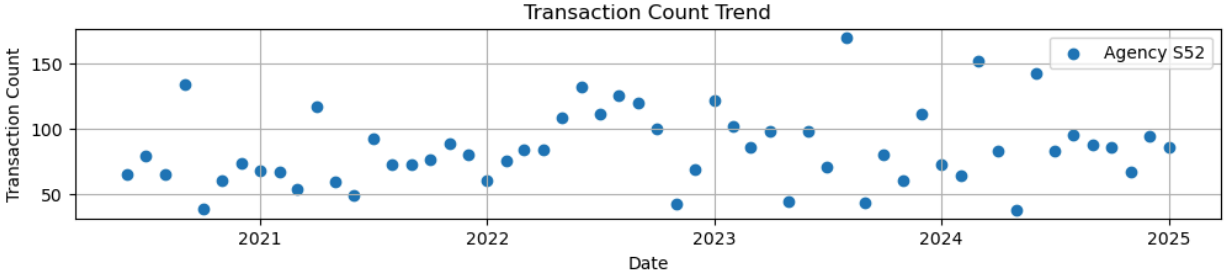
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Transaction Count
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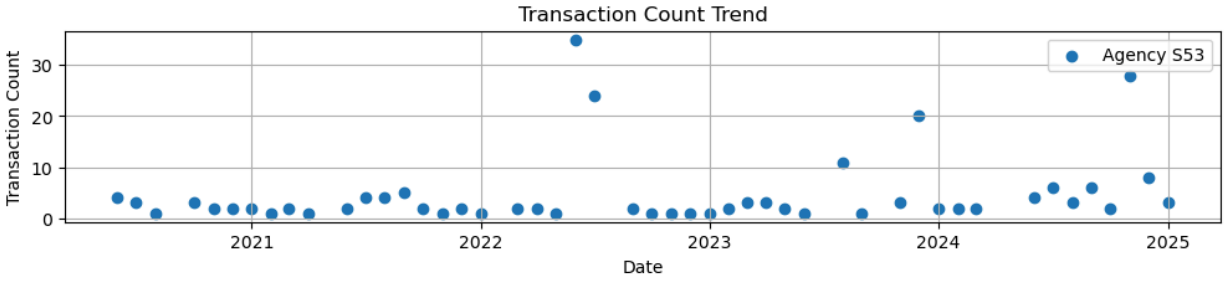
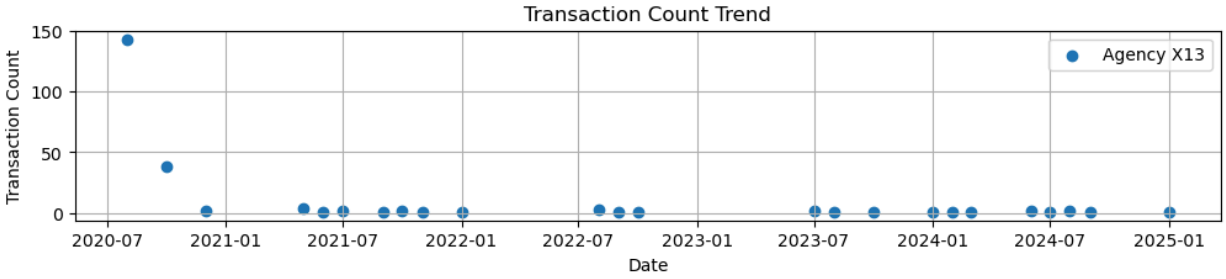
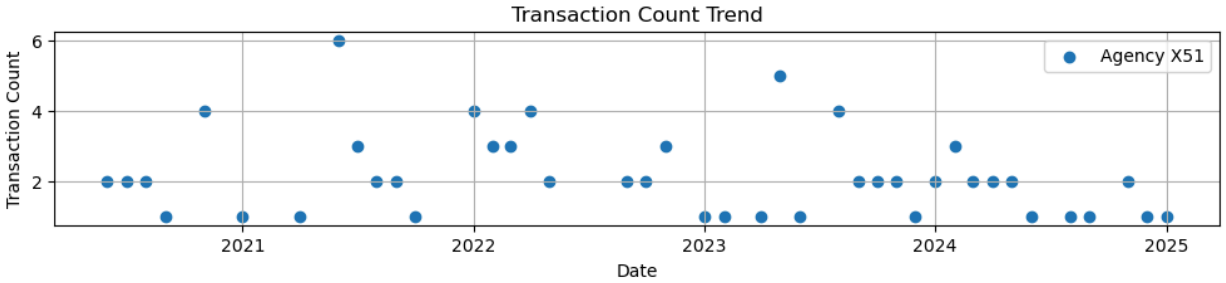






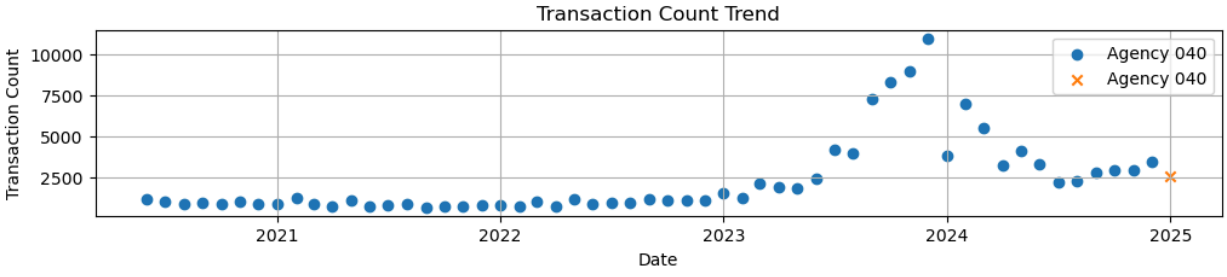
17

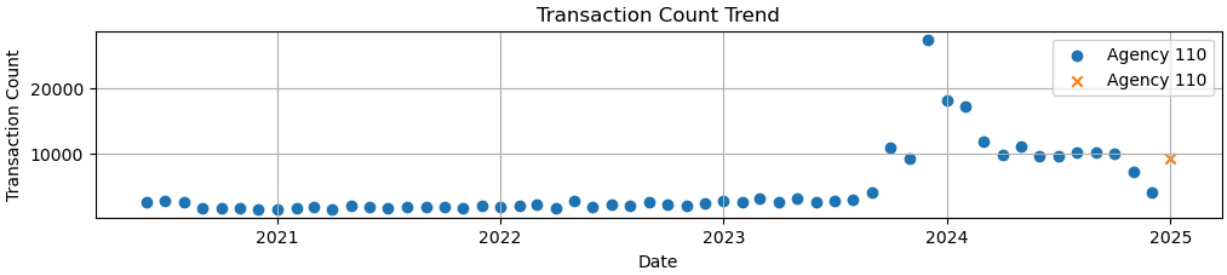
17 - Predicted as Outlier

In [179…
```
outlier_df_17 = combined.query("status=='new' and tpmi_trans_cd=='17' and outlier==-1"
print(' '.join(sorted(outlier_df_17.tpmi_agncy_cd.unique())))
```

```
040 110 190 290 360 380 420 430 450 480 530 S01 S14 S18 S29 S30 S42 S53 X51
```

In [180…
```
for agency in sorted(outlier_df_17.tpmi_agncy_cd.unique()):
    show_outliers(combined, '17', [agency])
```

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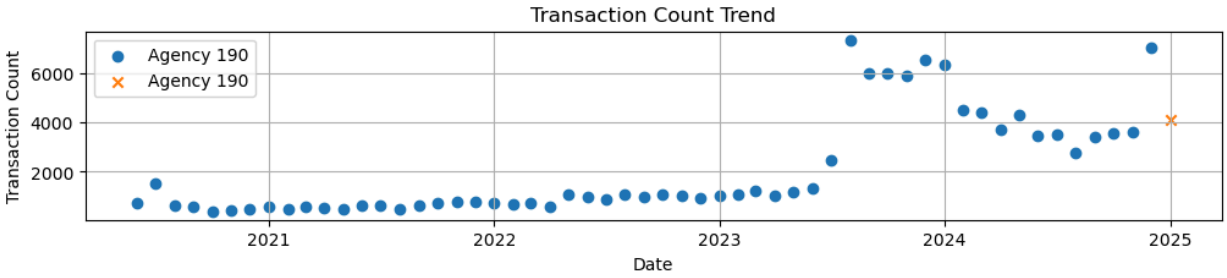
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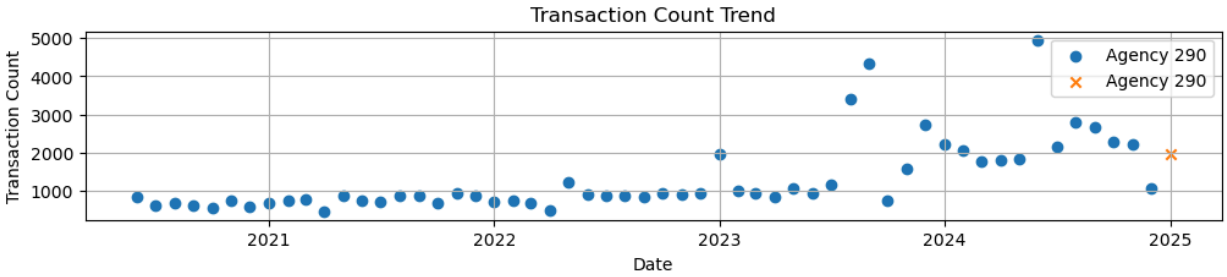
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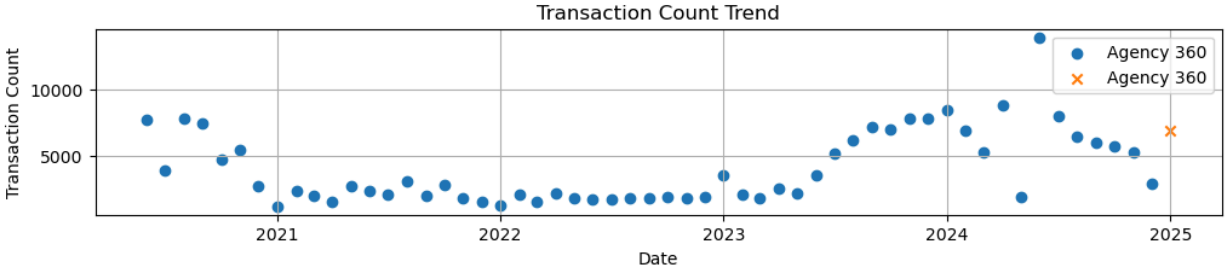
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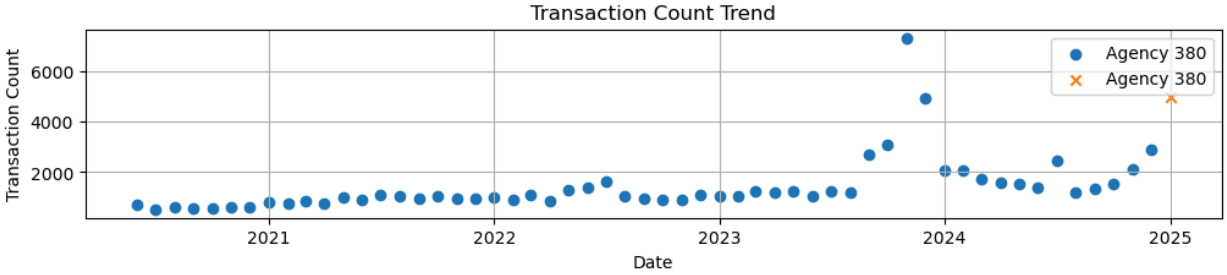
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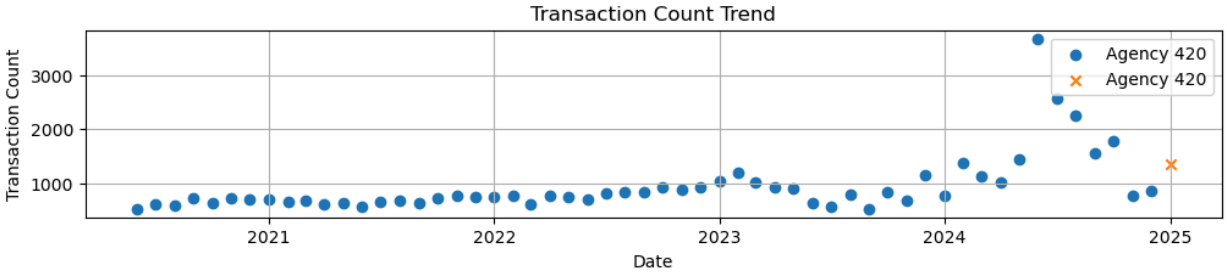
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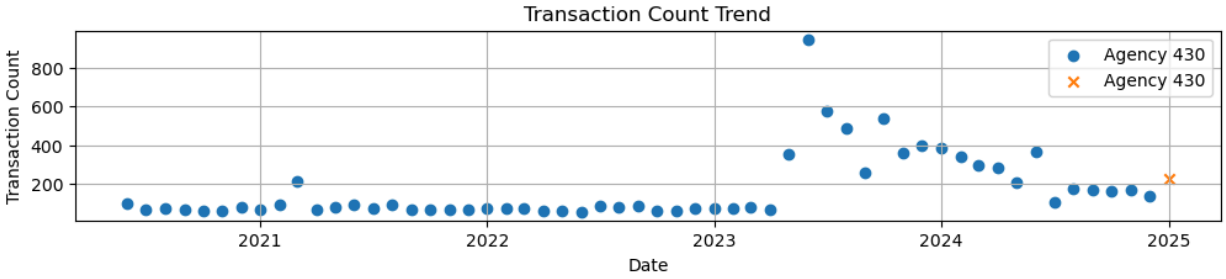
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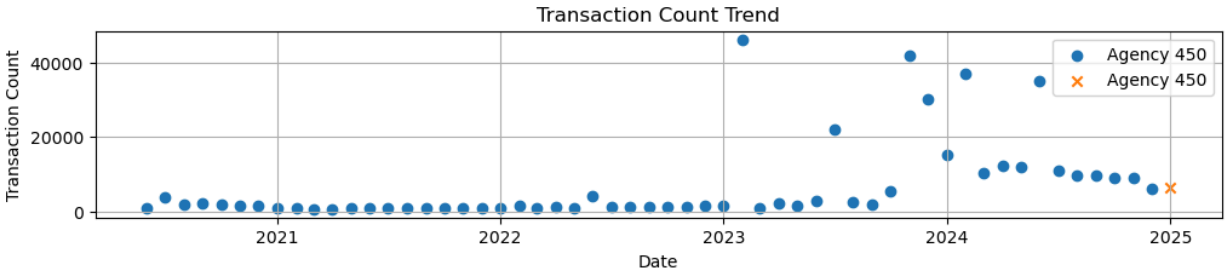
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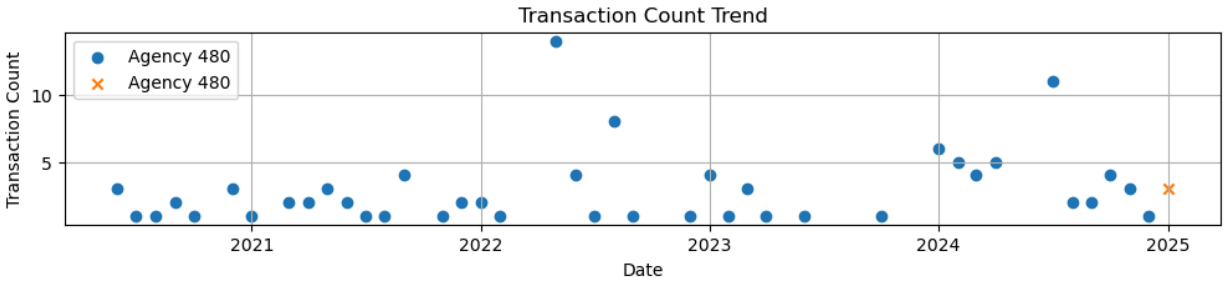
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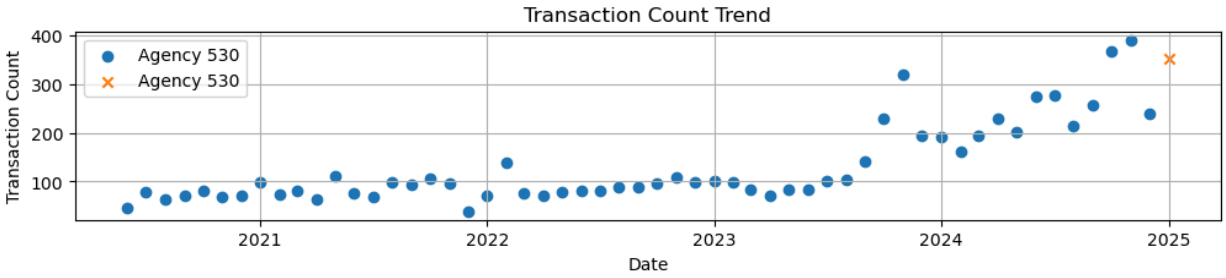
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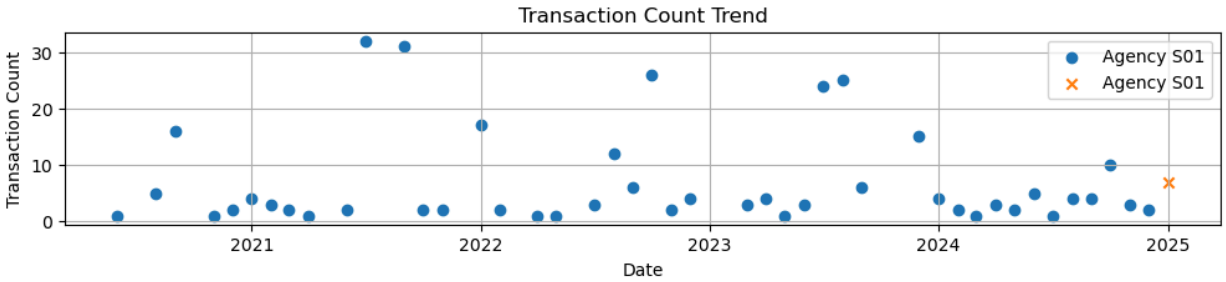
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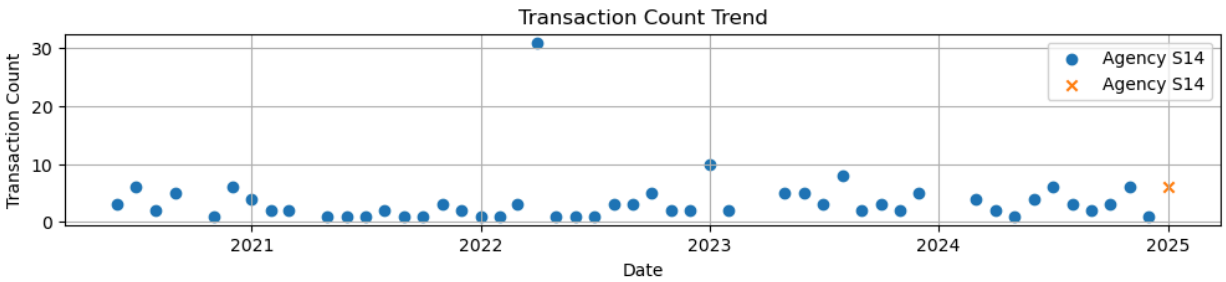
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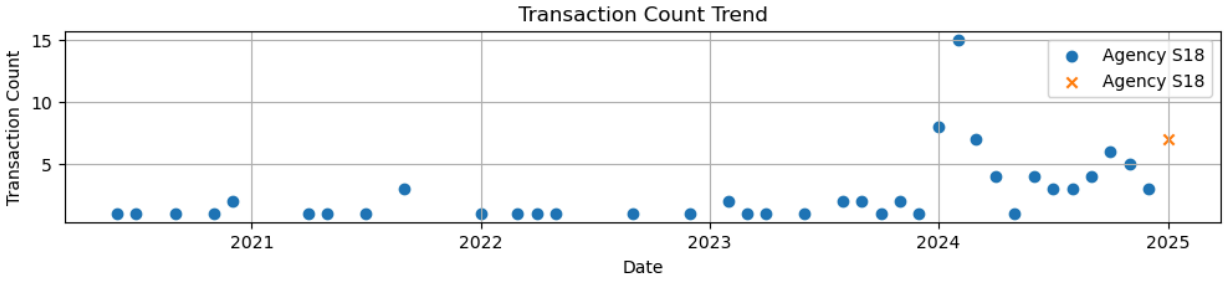

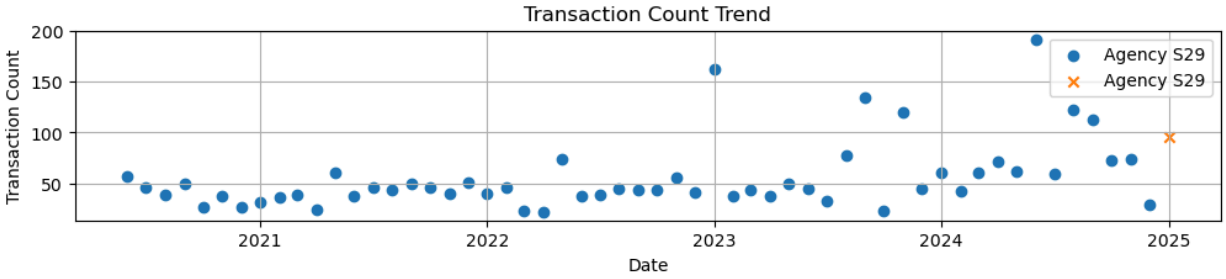

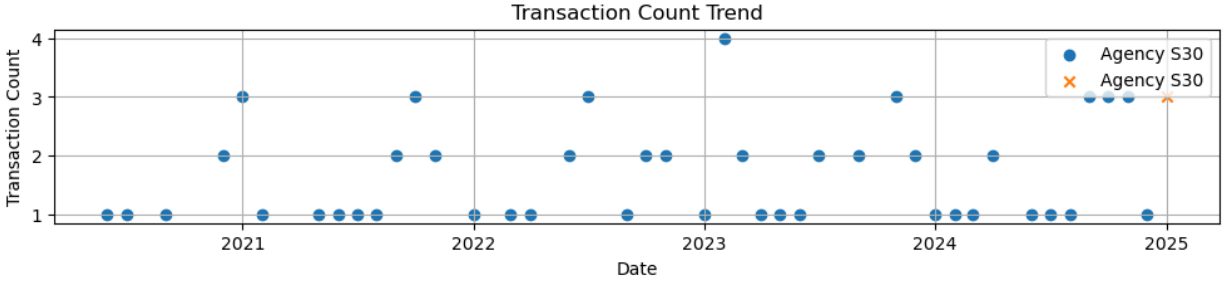

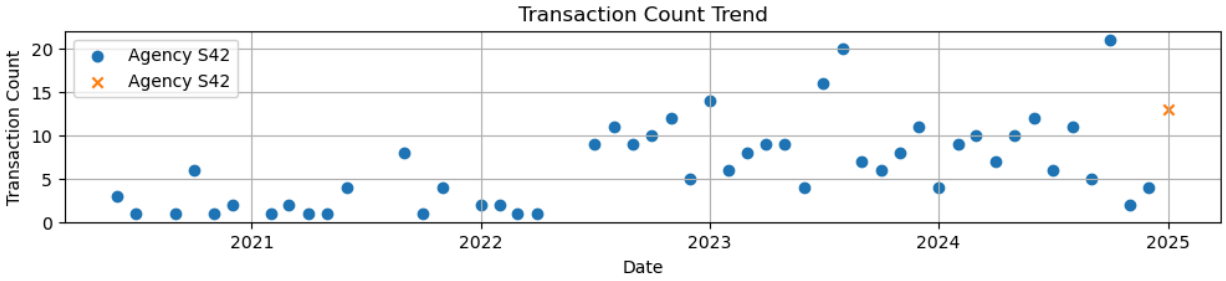

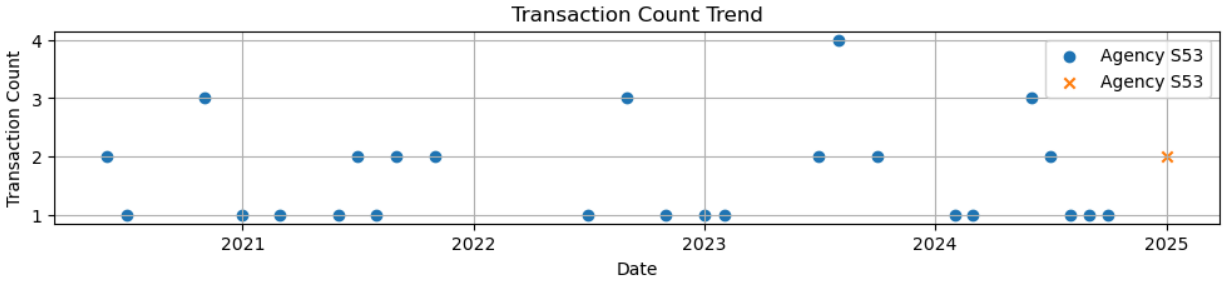

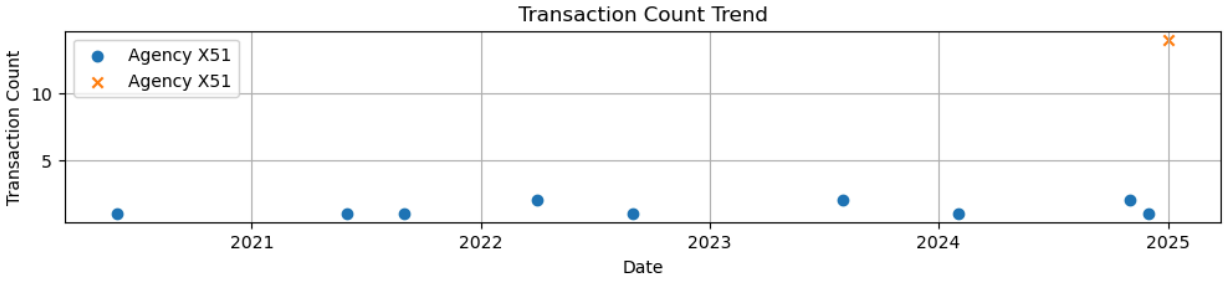

17 - Predicted as Normal

In [181…

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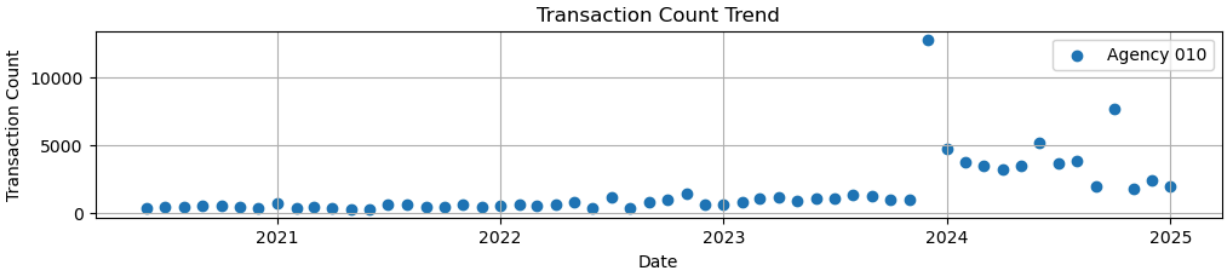

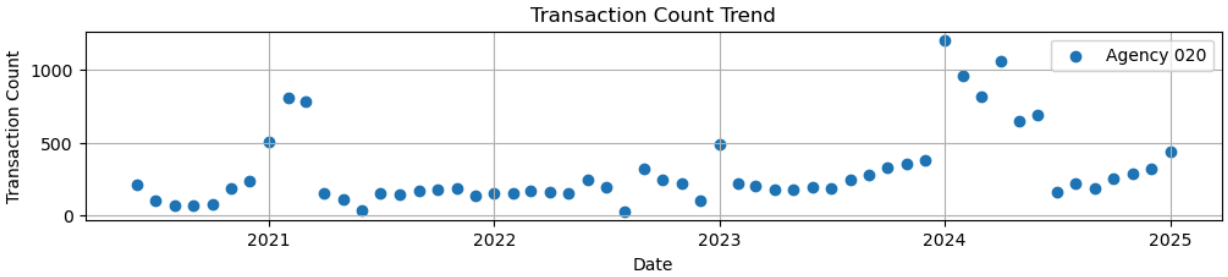

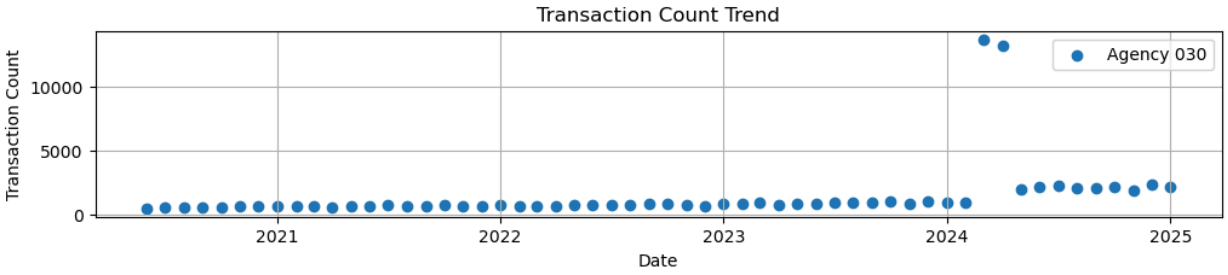

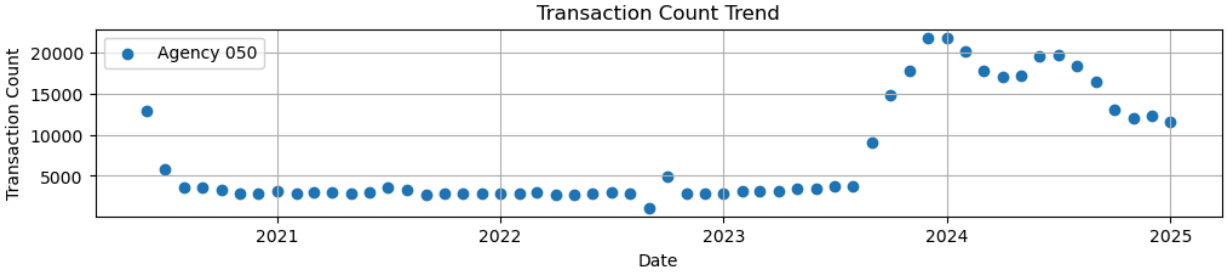

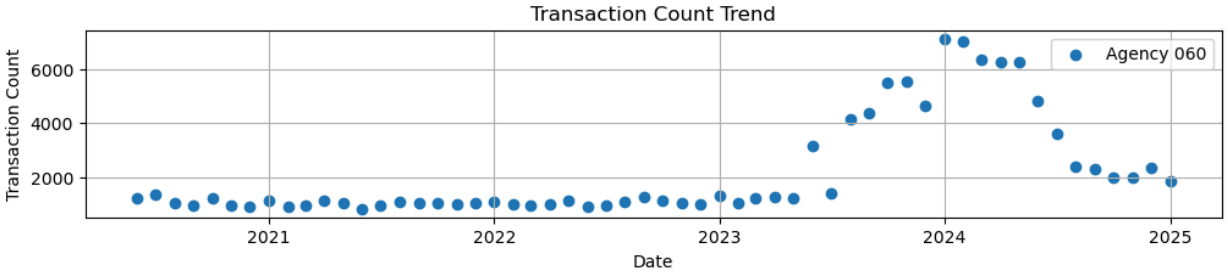

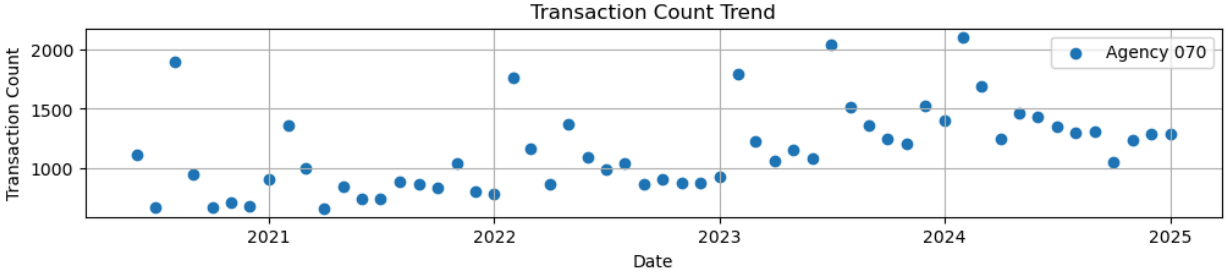

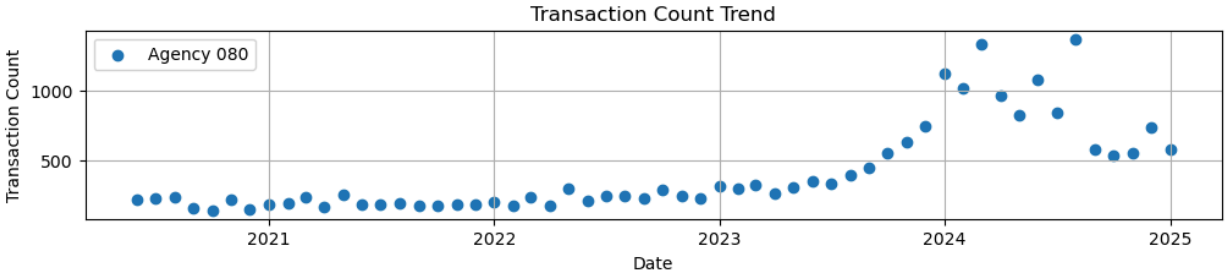
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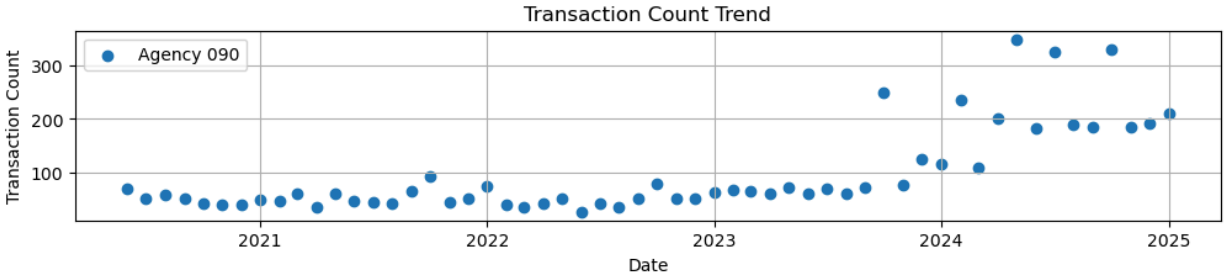
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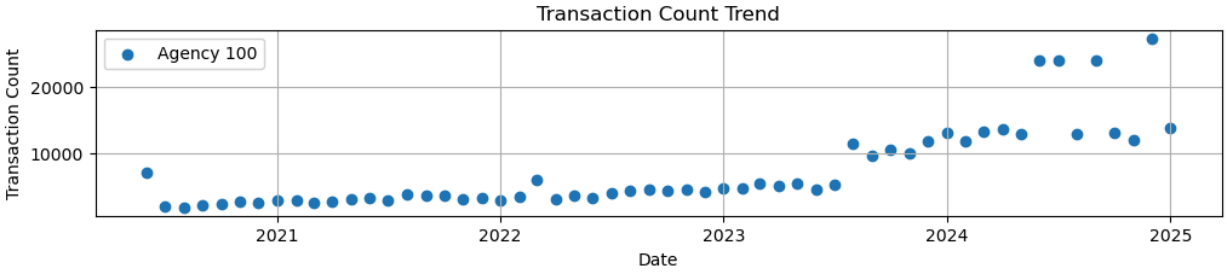
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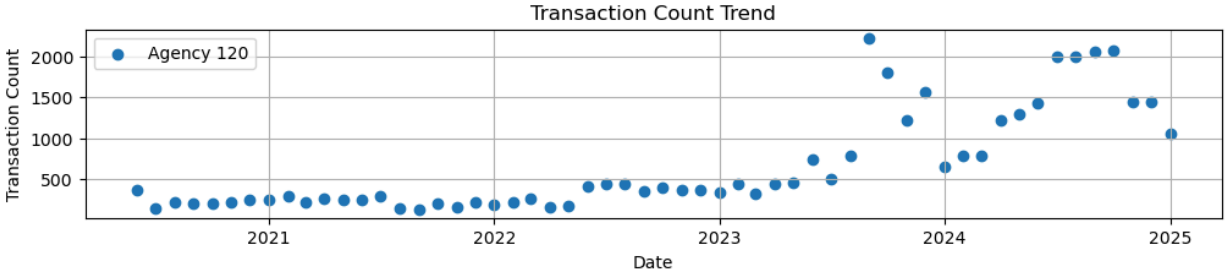
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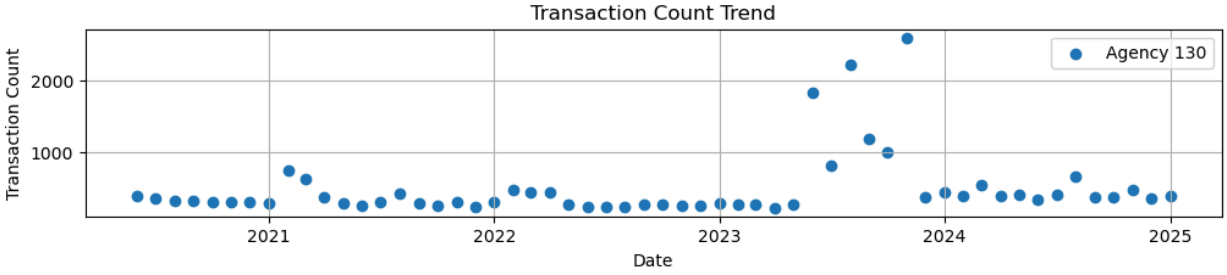
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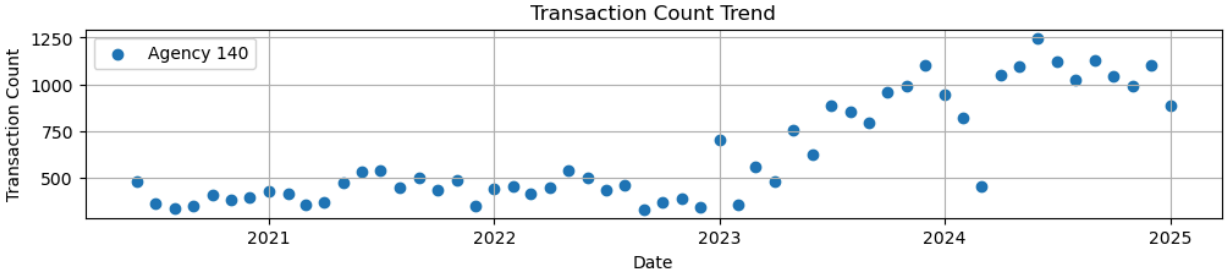
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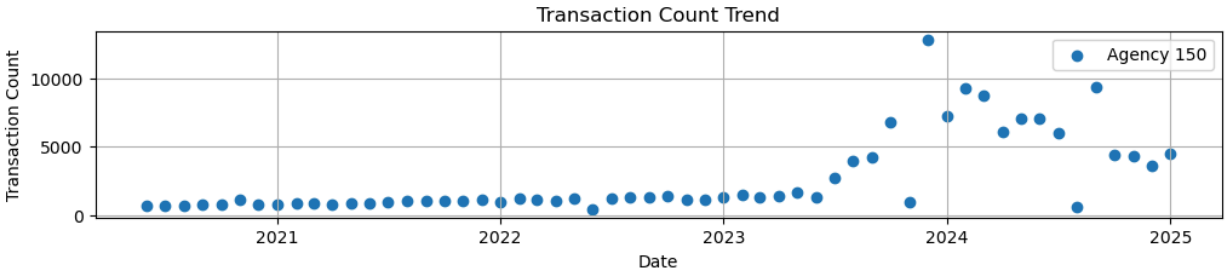
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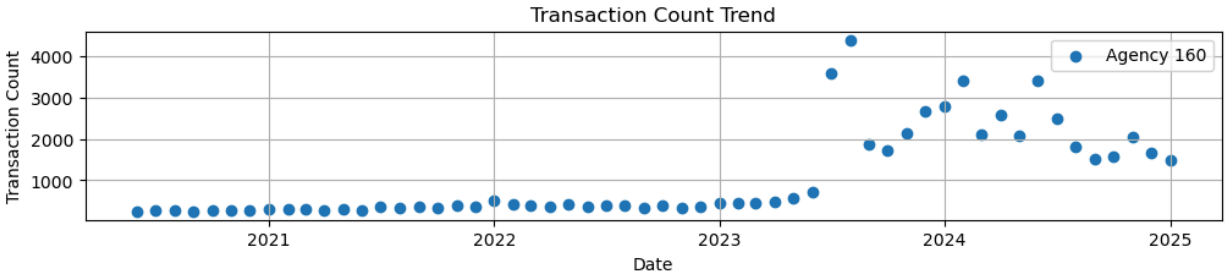
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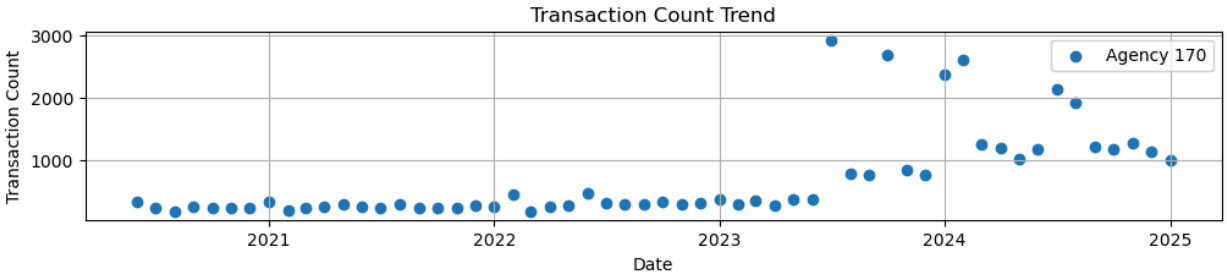
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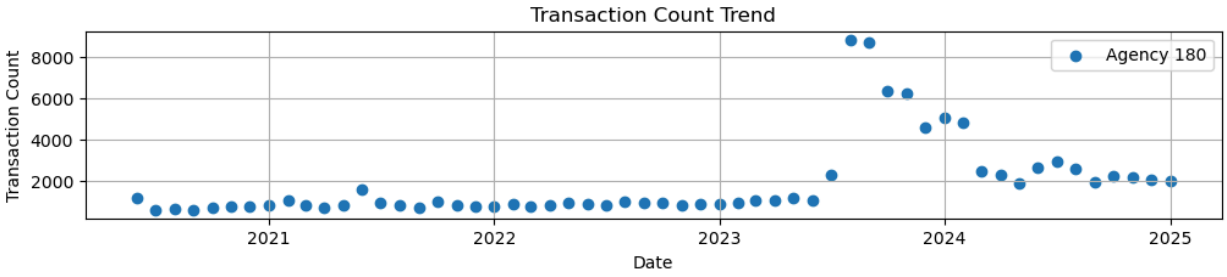
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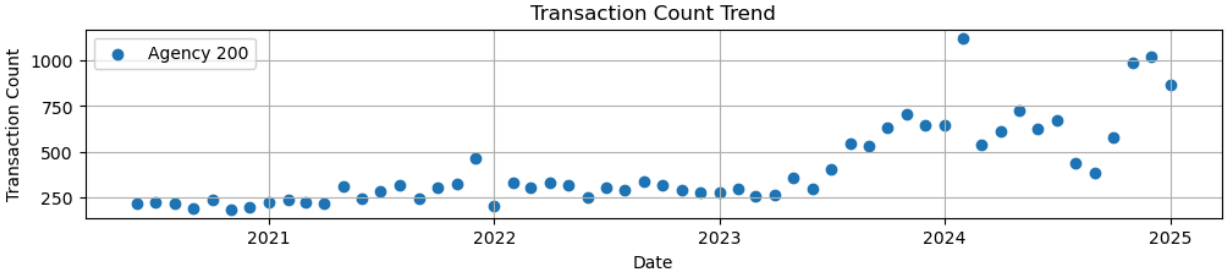
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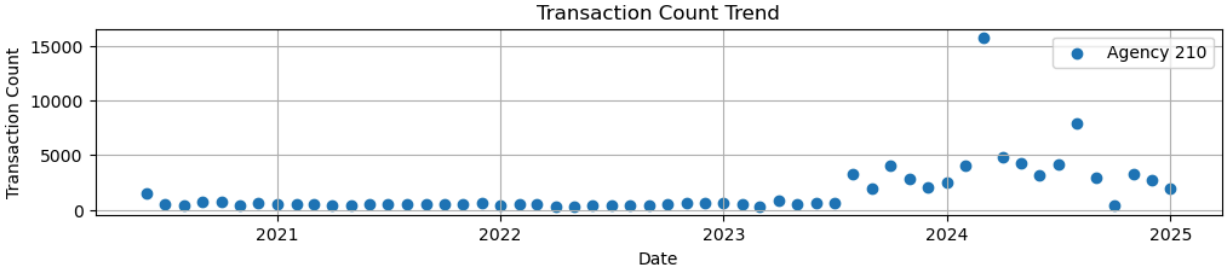
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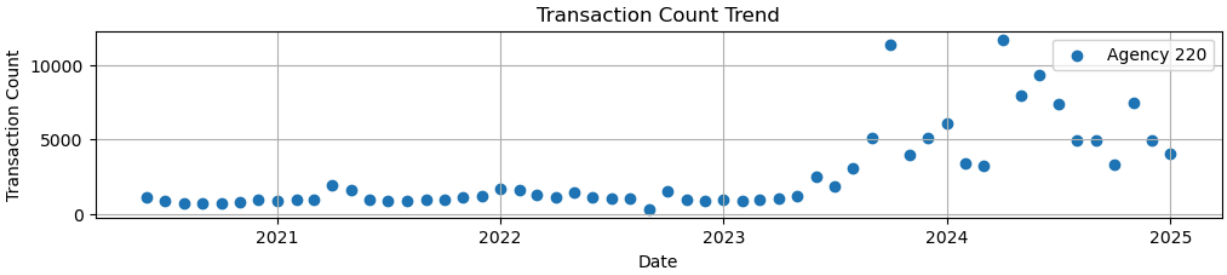
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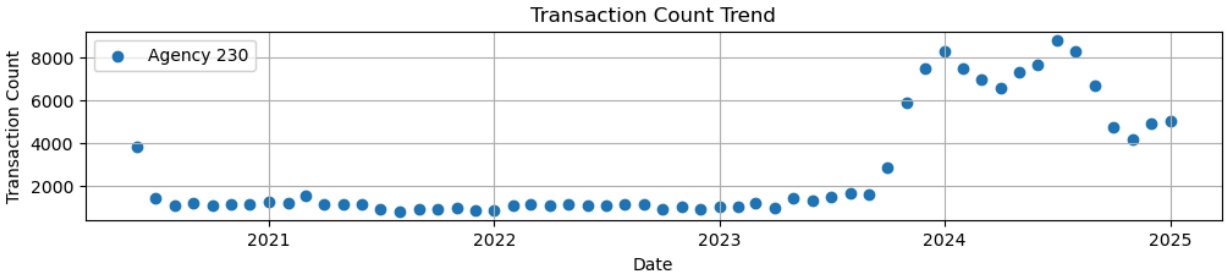
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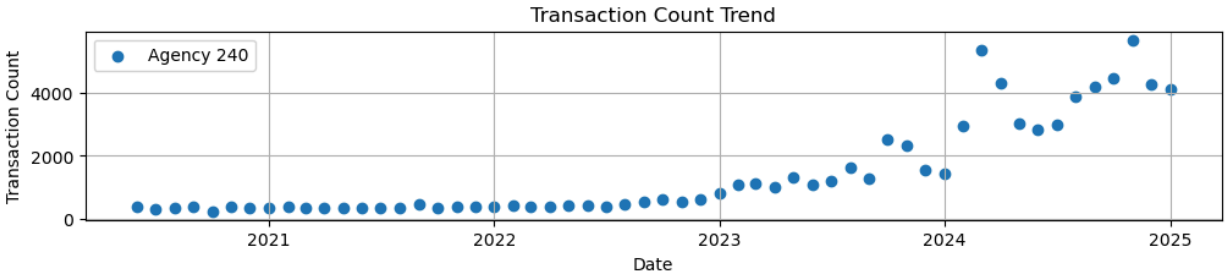
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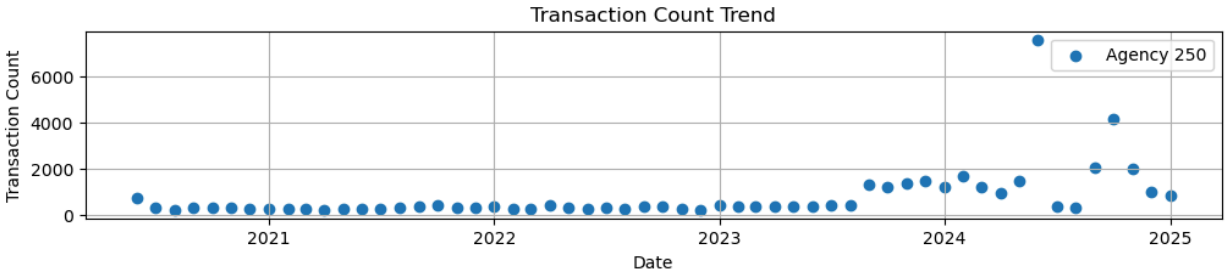
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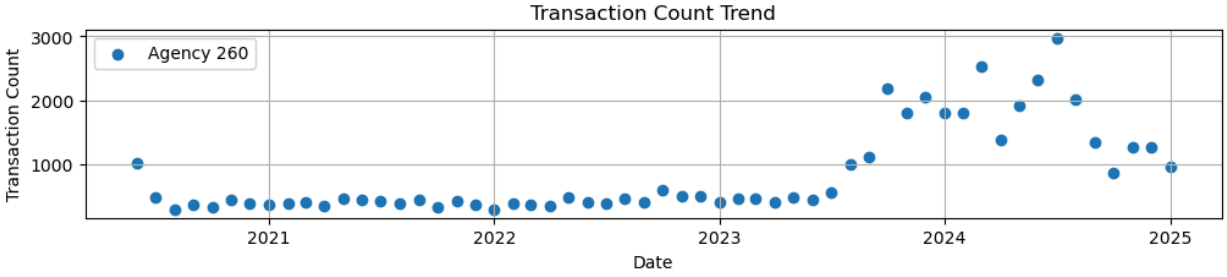
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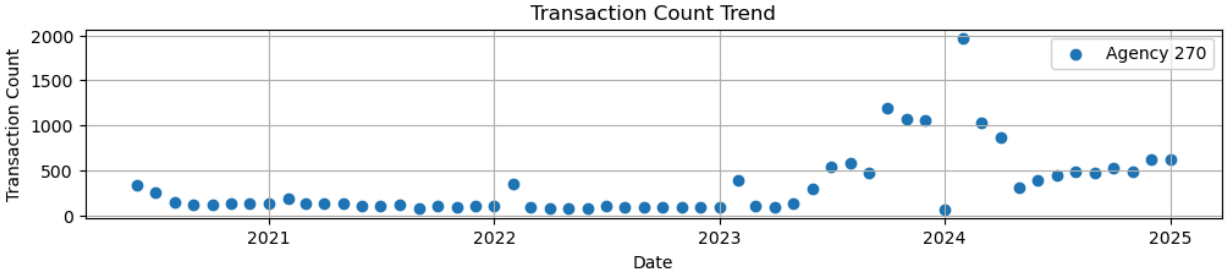
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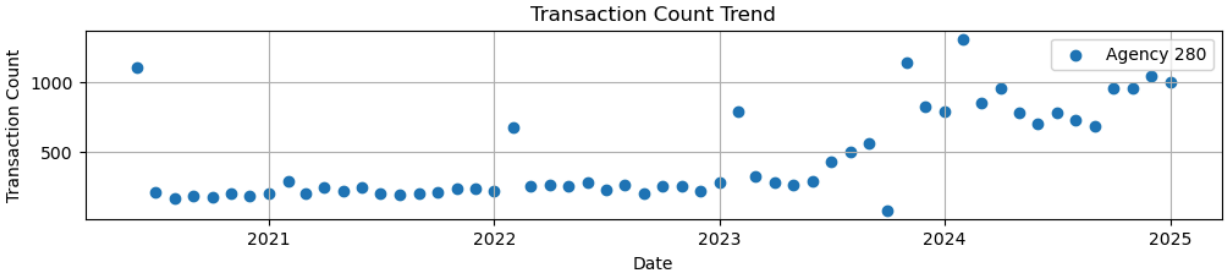
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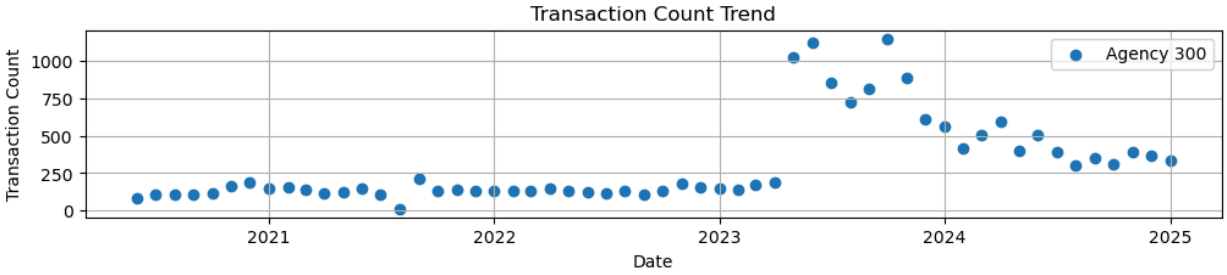
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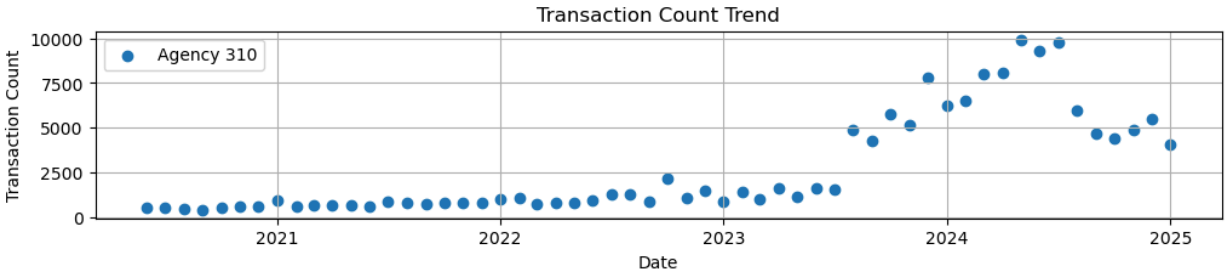
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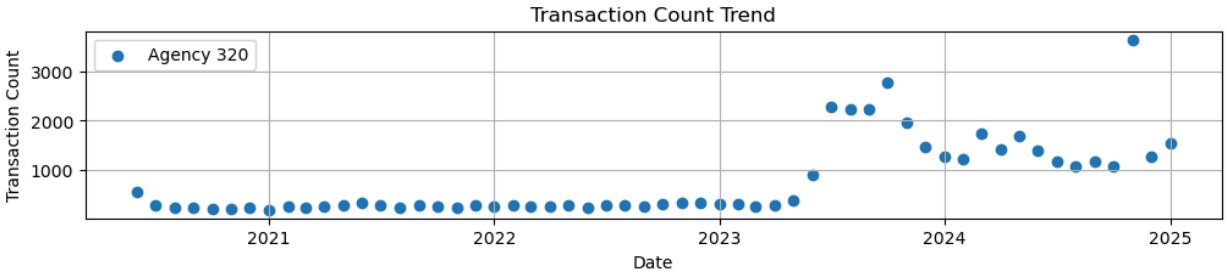
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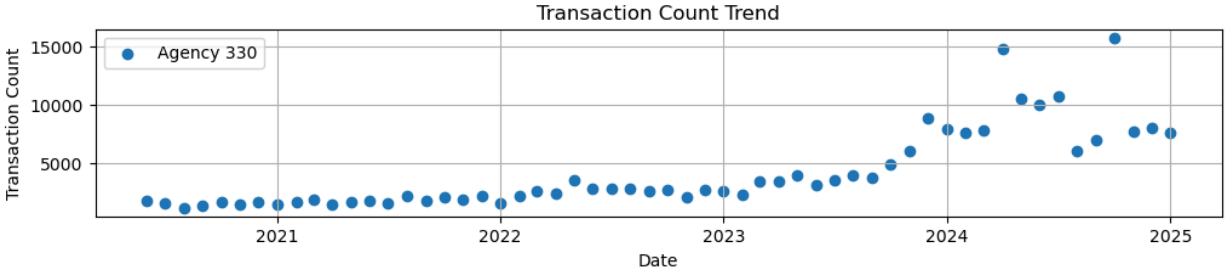
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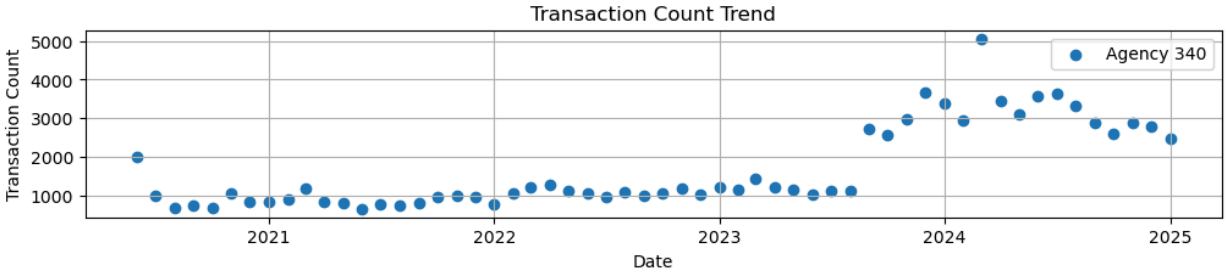
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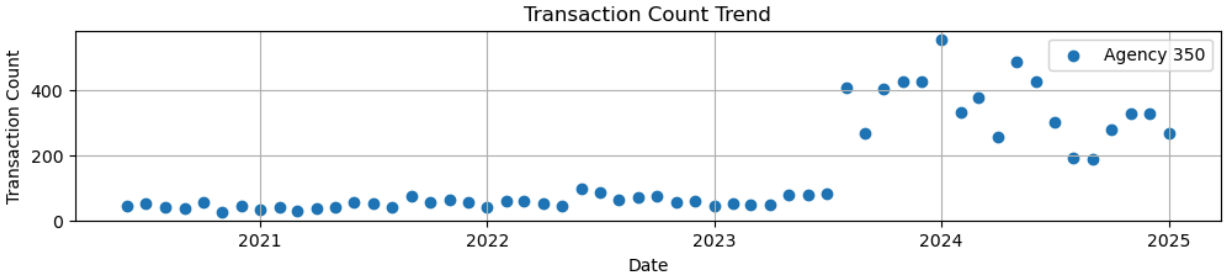
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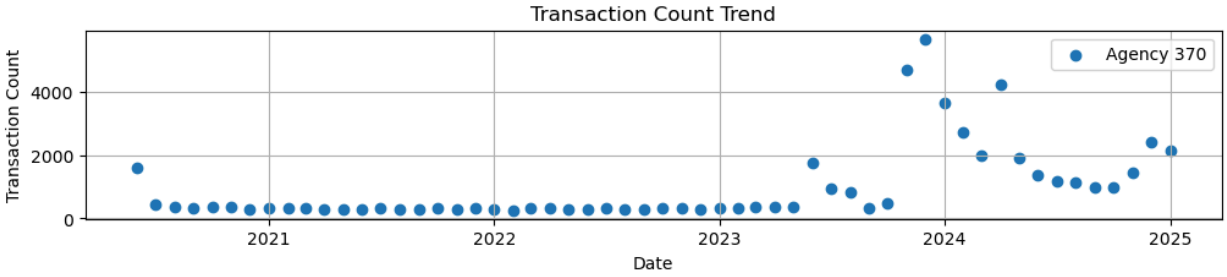
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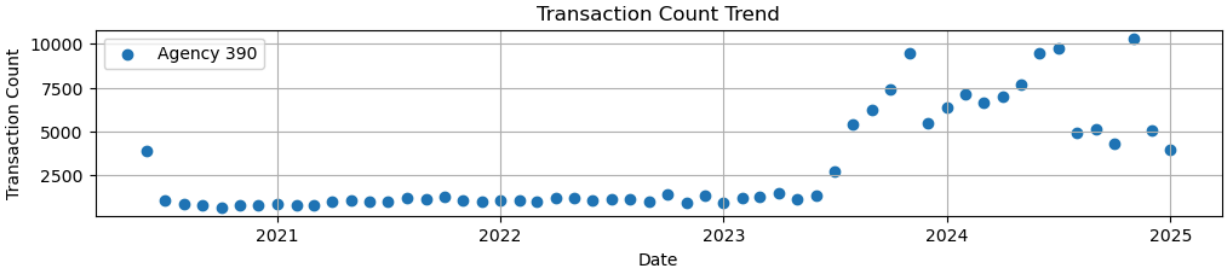
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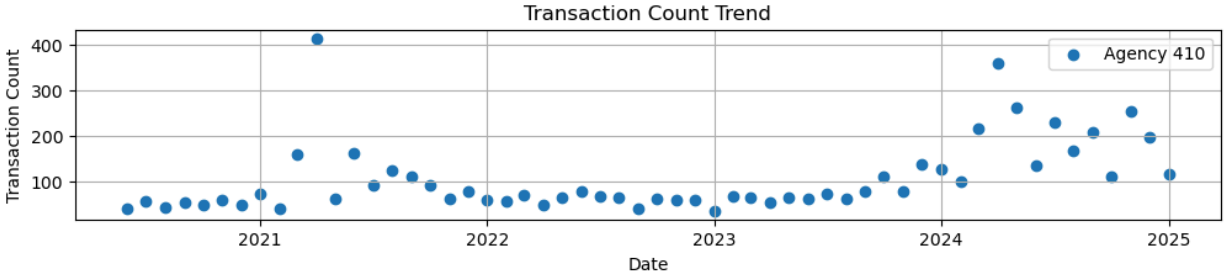
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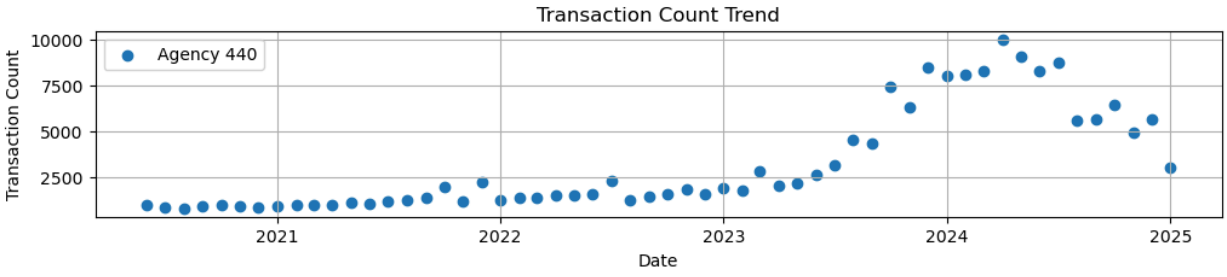
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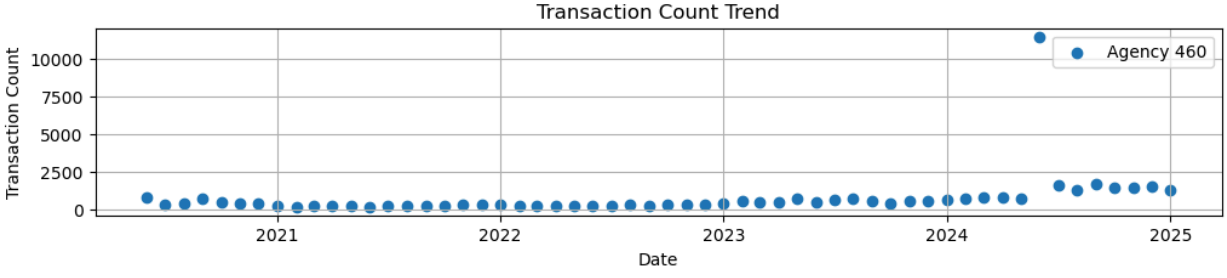
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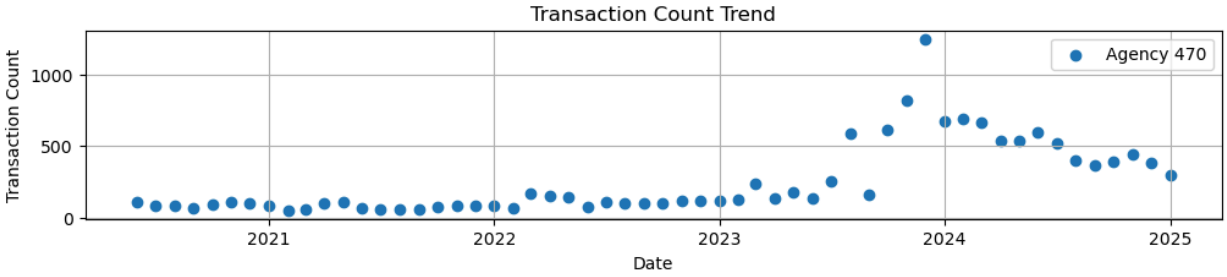
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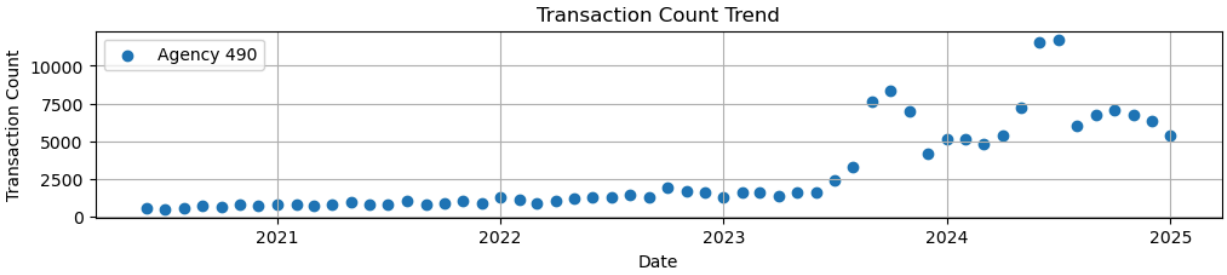
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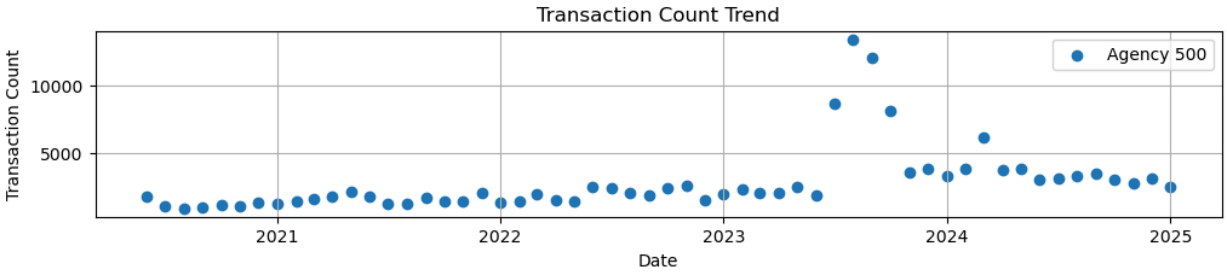
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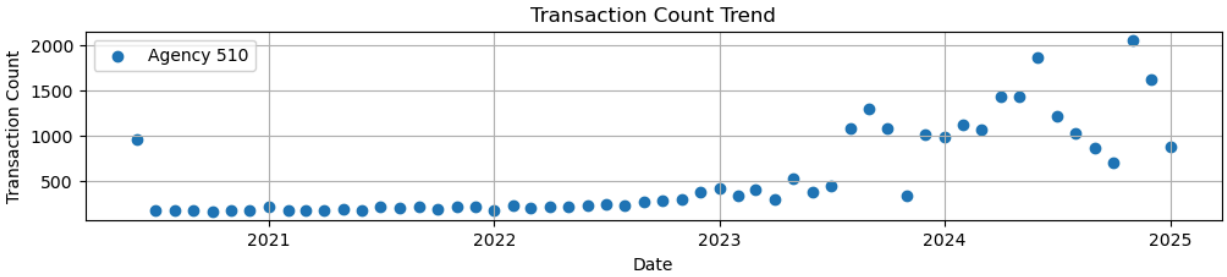
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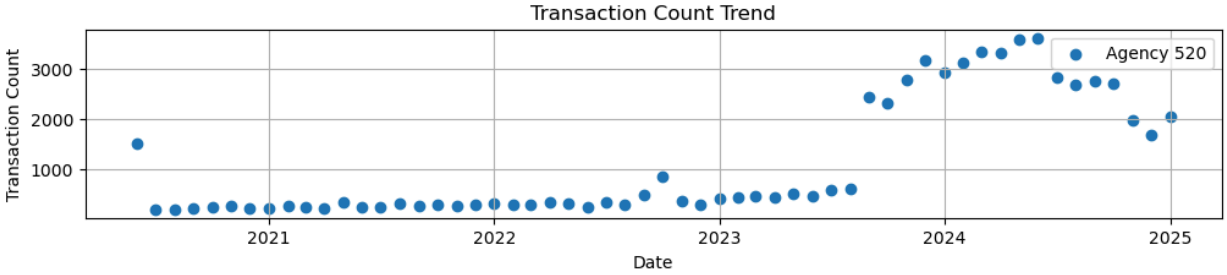
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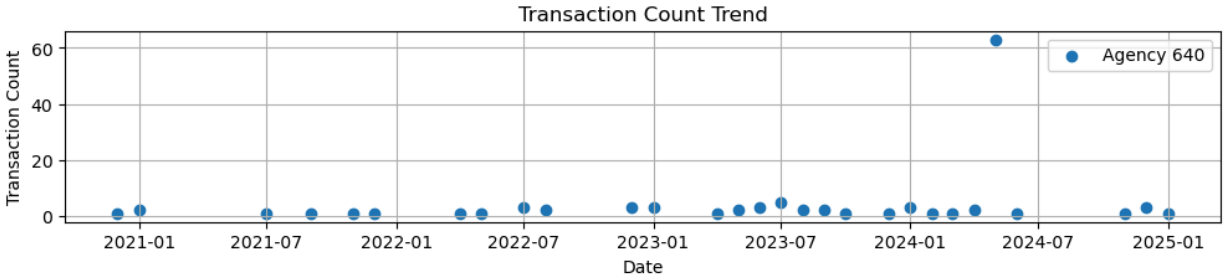
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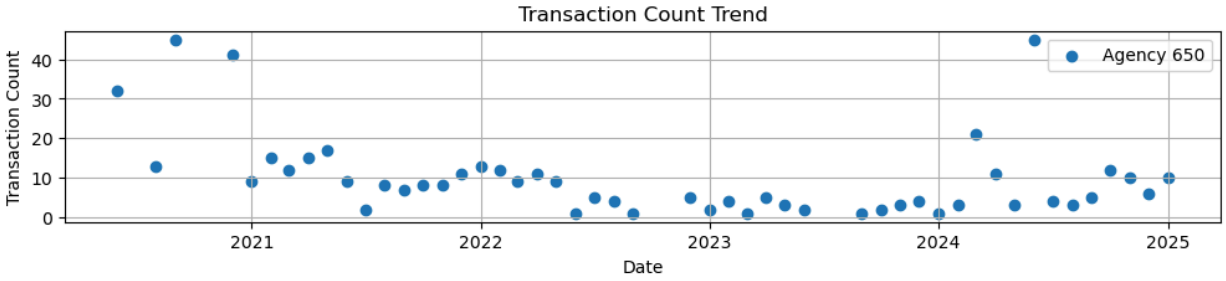
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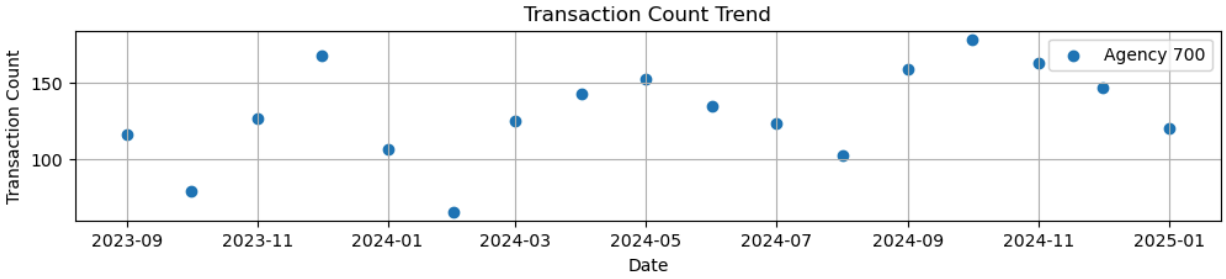
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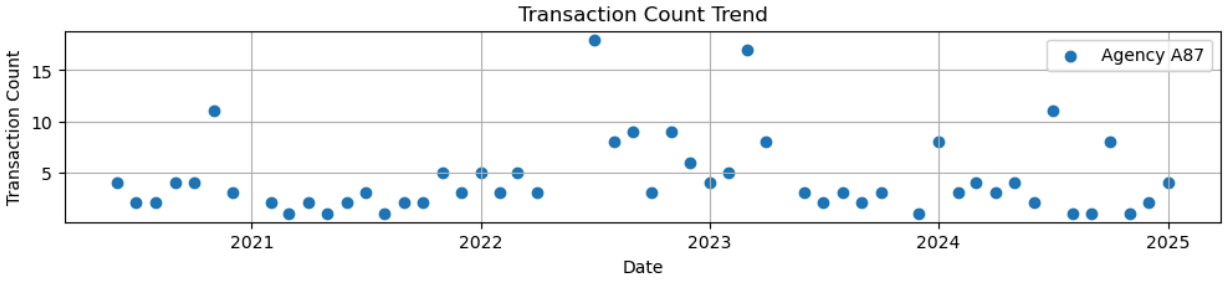
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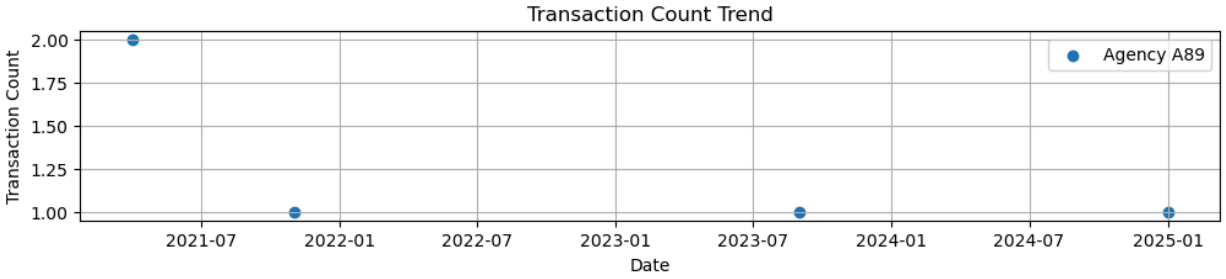
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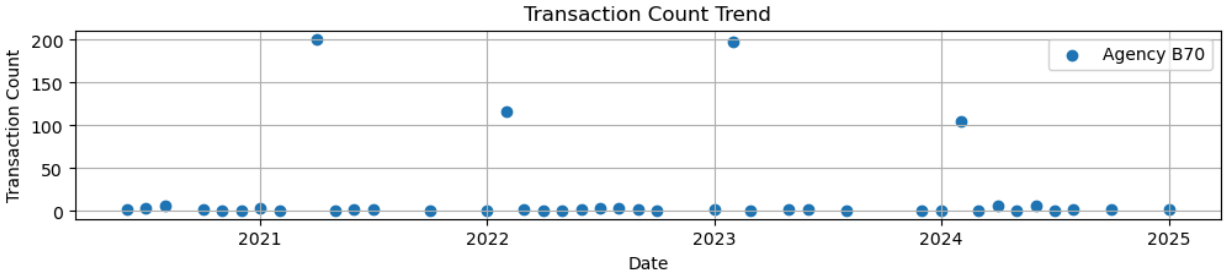
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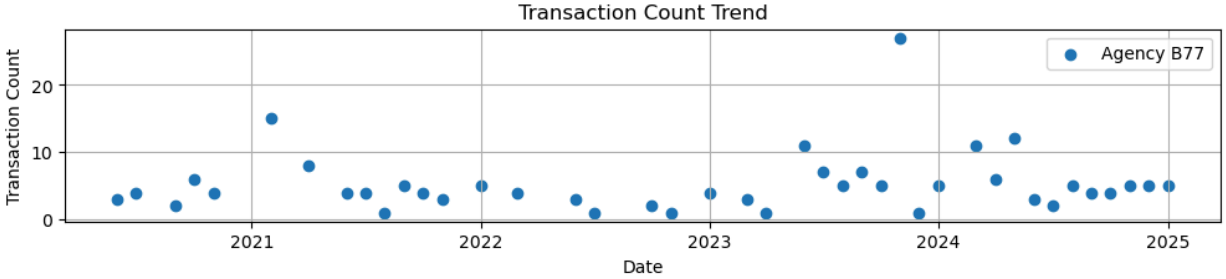
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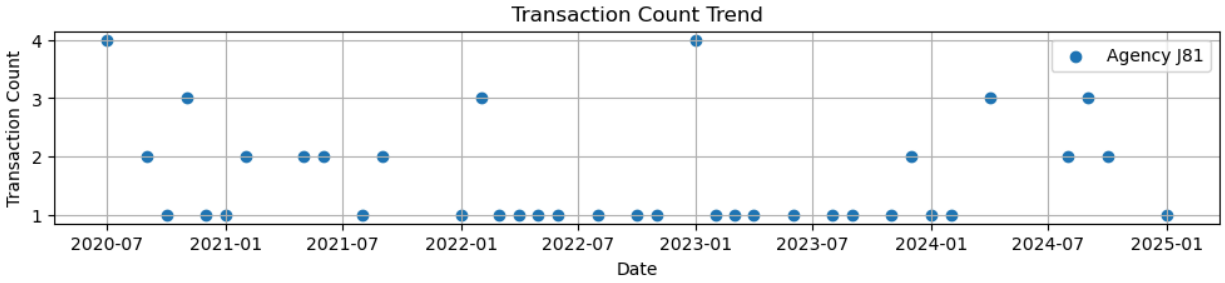
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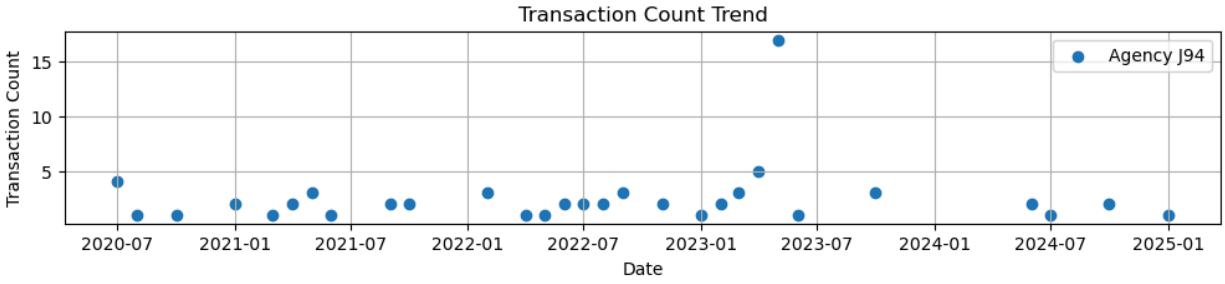
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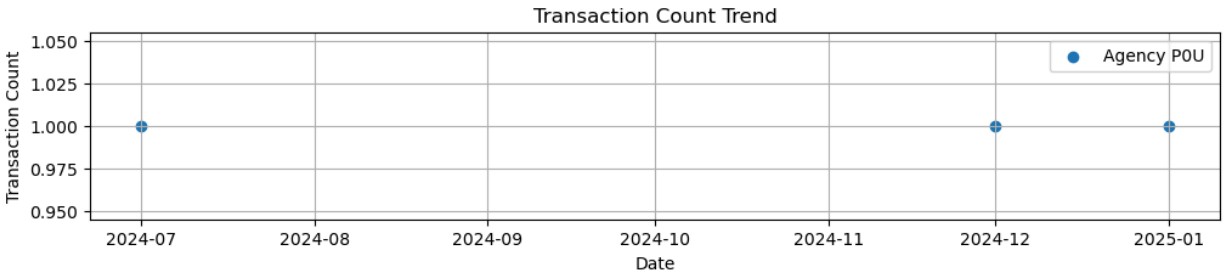
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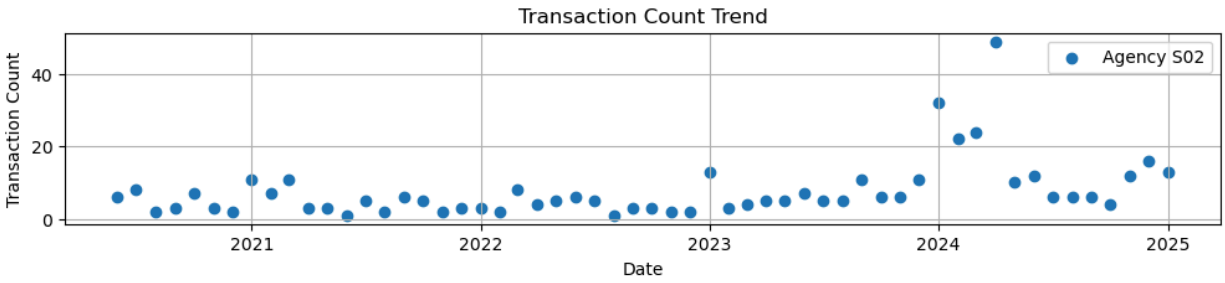
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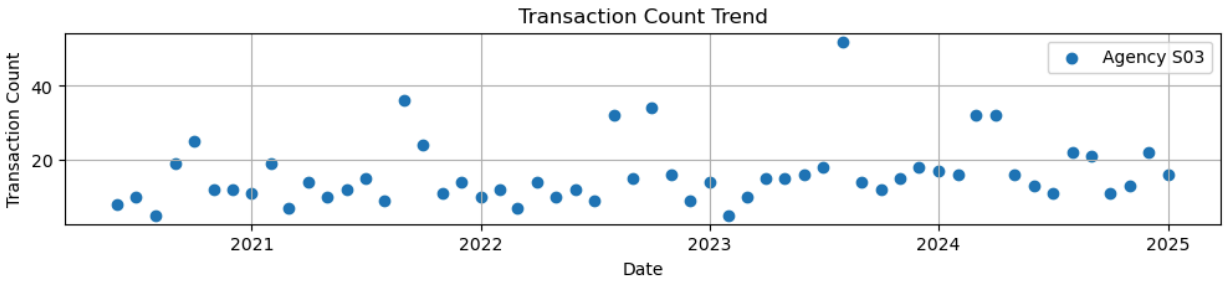
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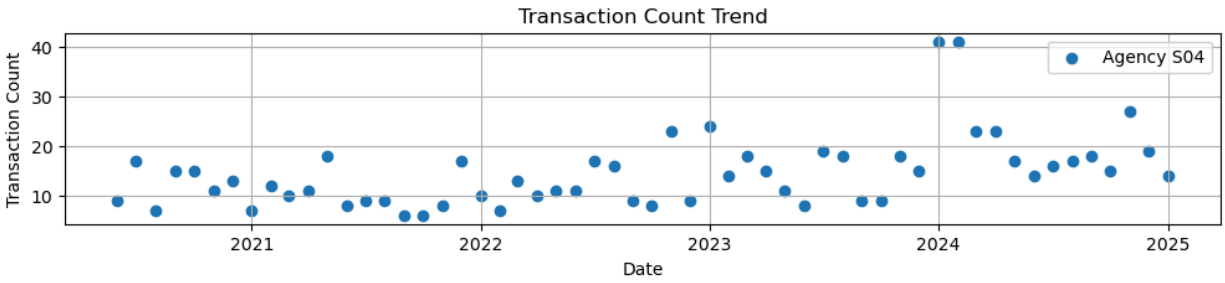
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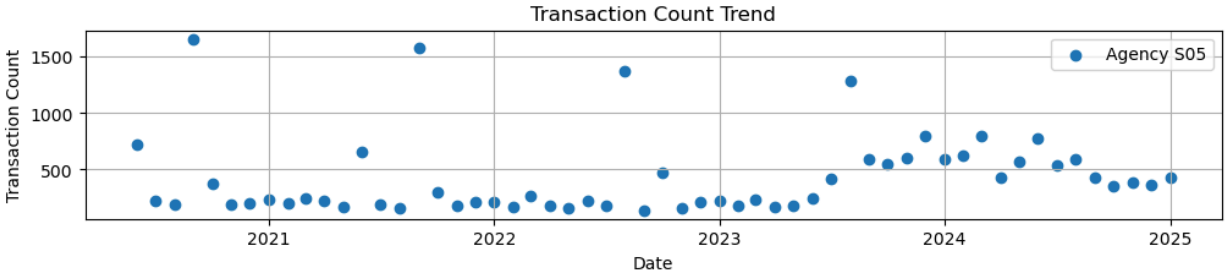
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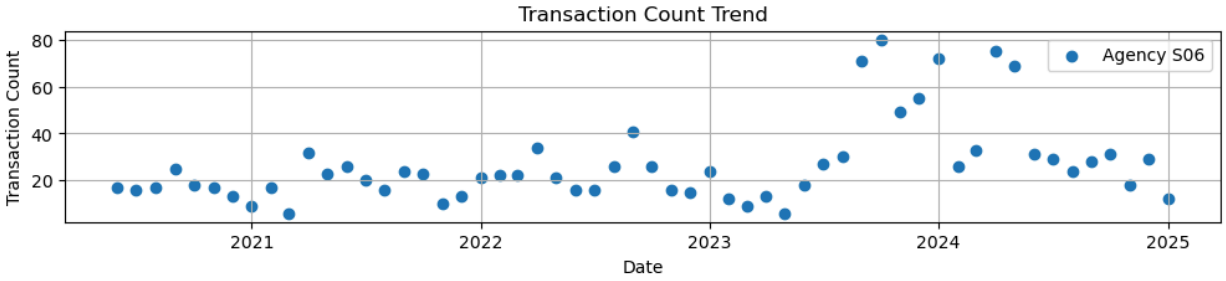
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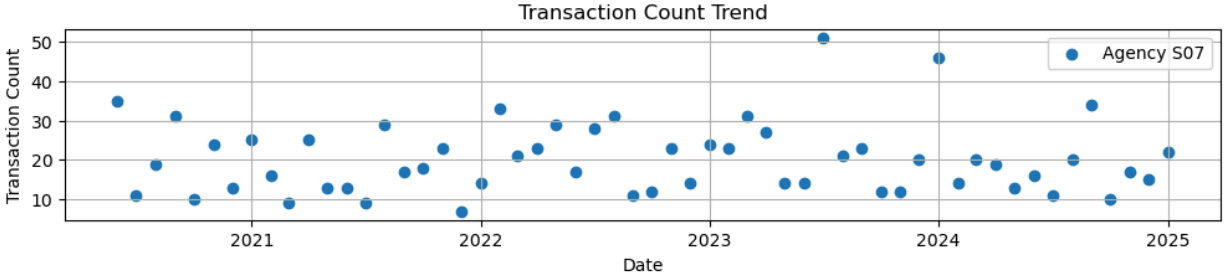
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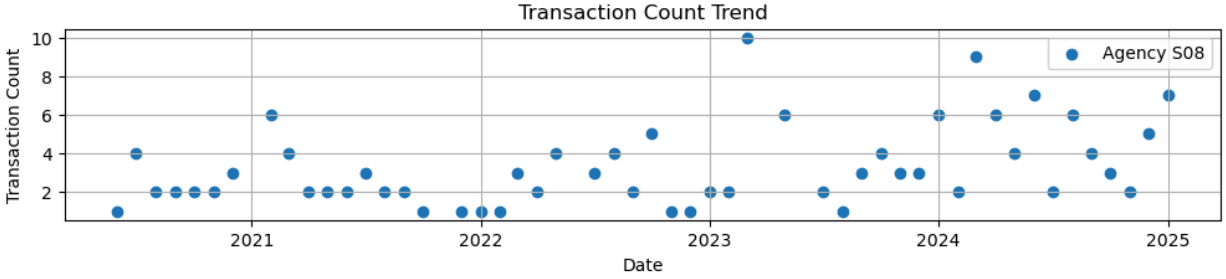
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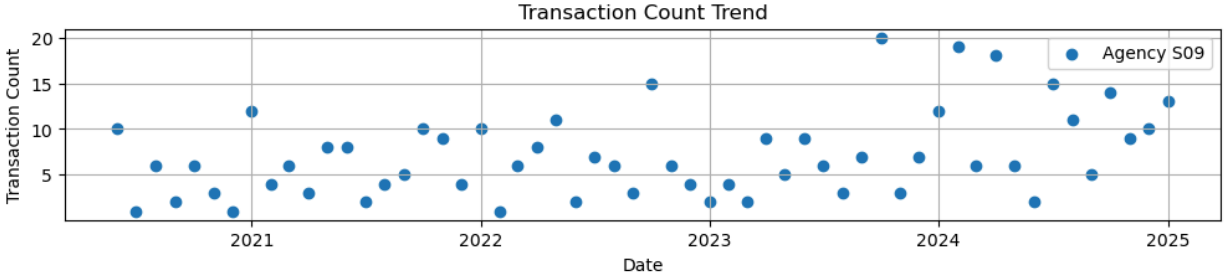
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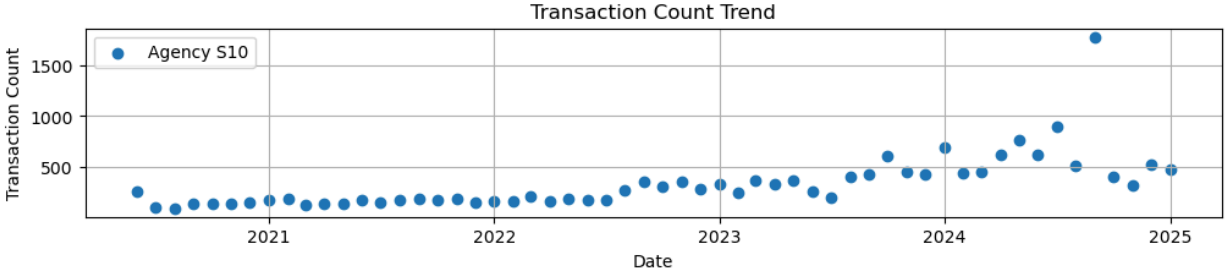
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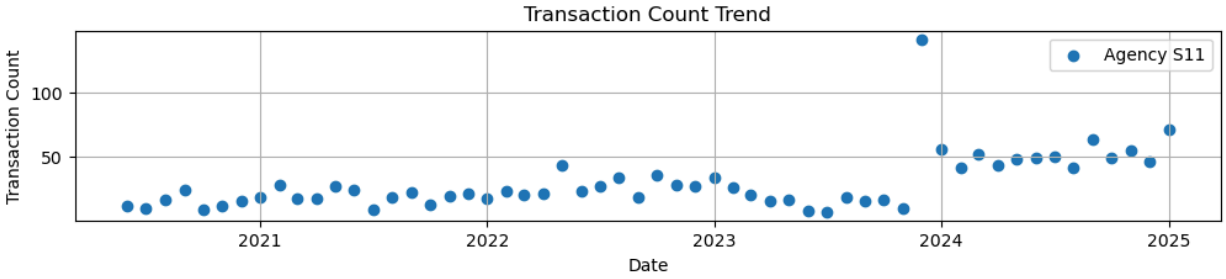
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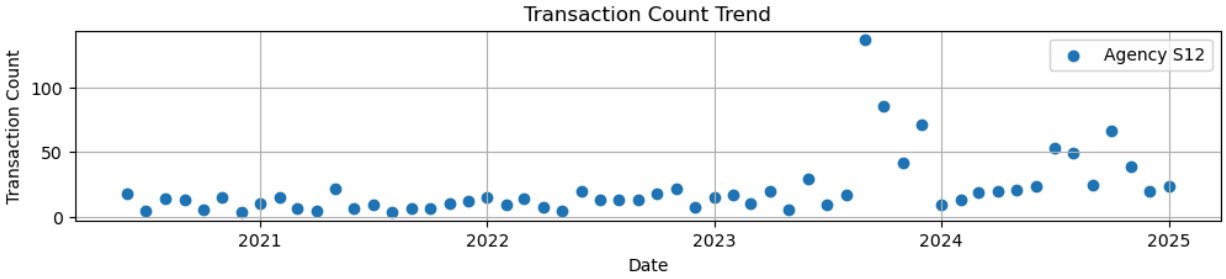
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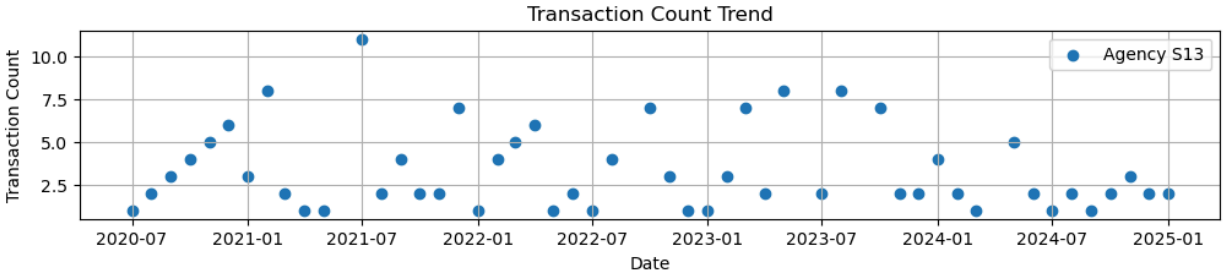
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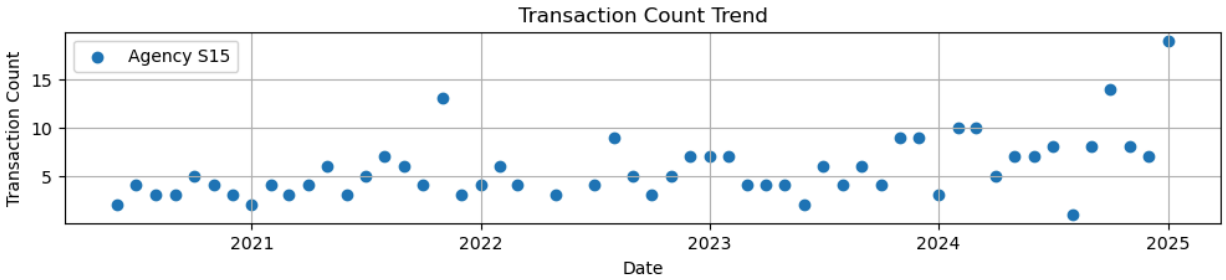
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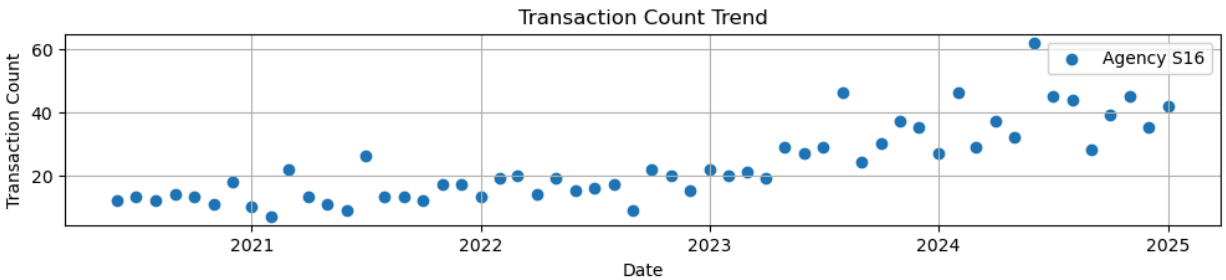
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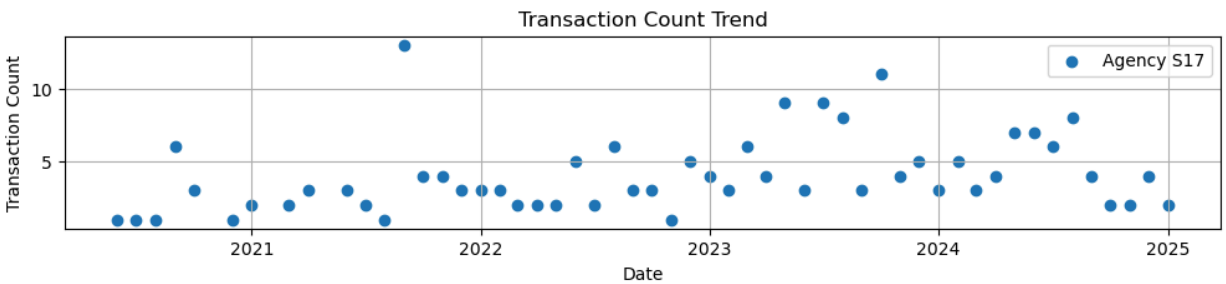
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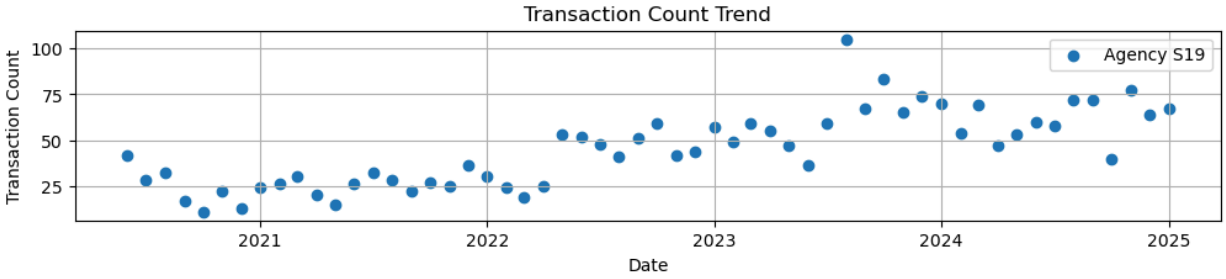
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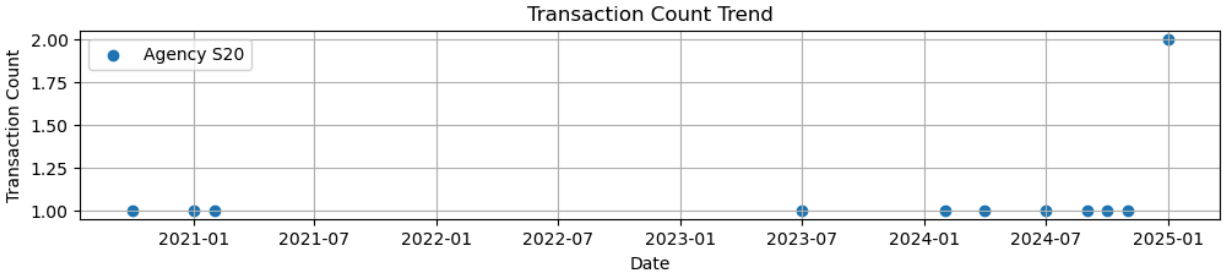
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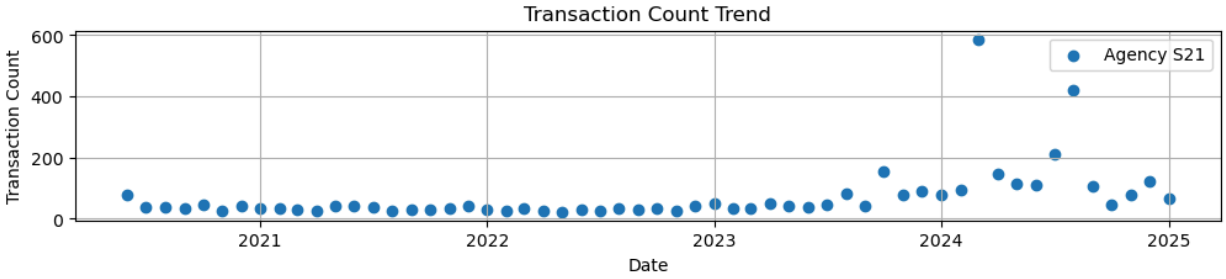
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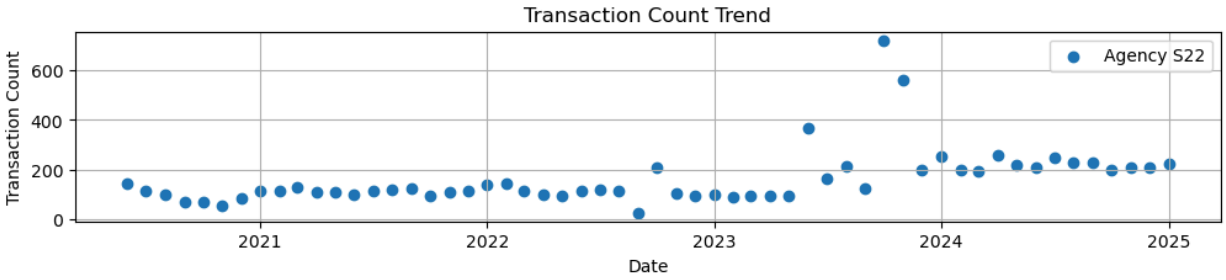
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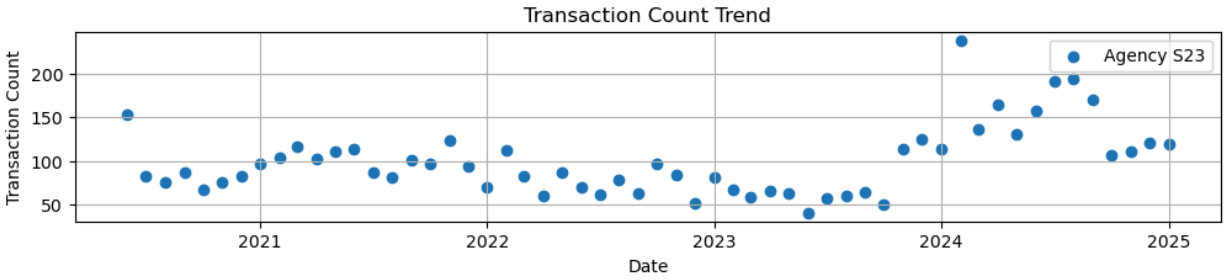
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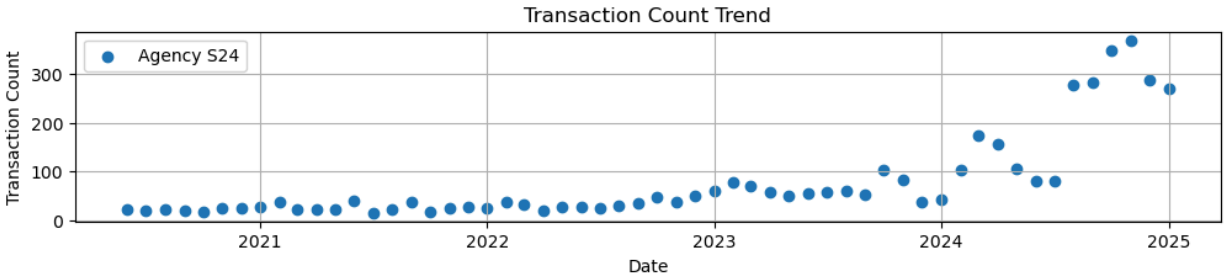
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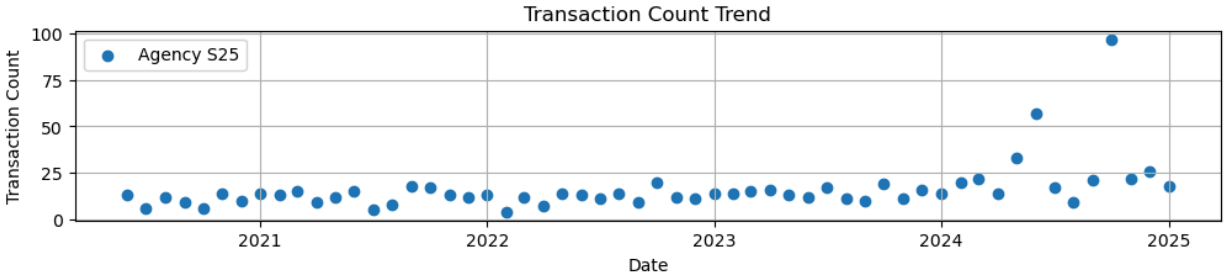
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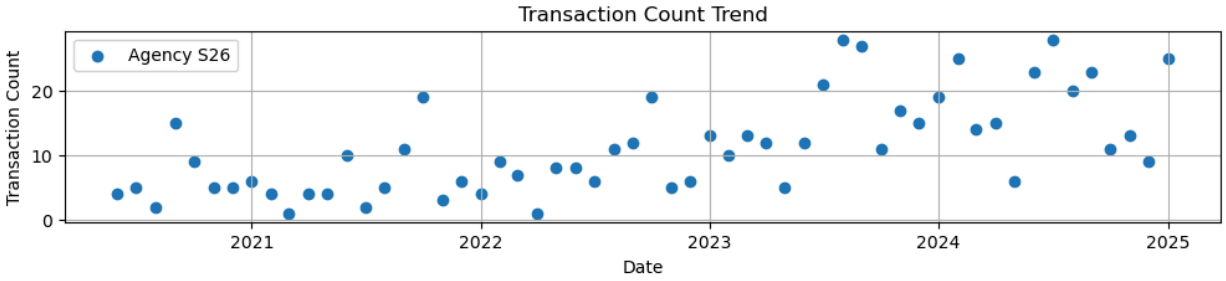
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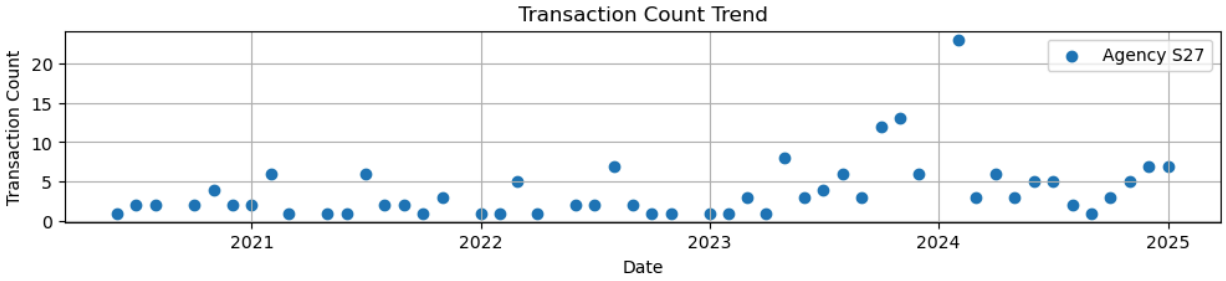
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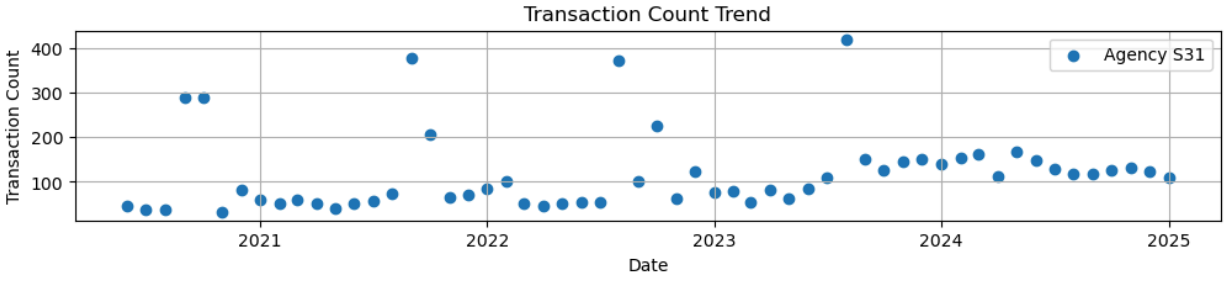
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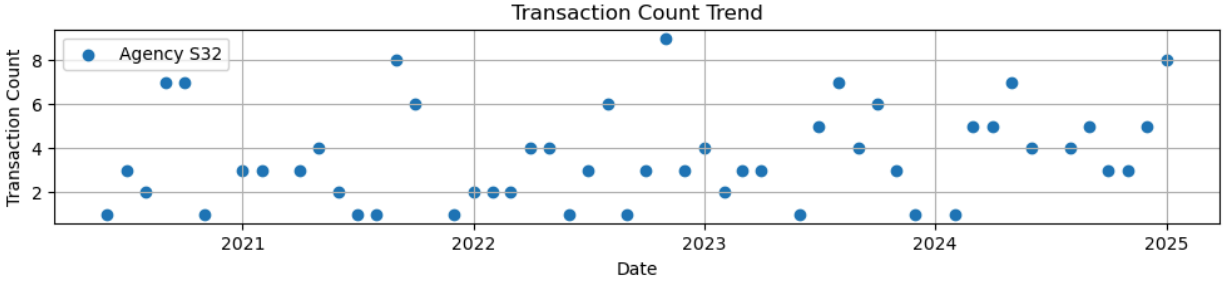
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Agency S32
Transaction Count
Date
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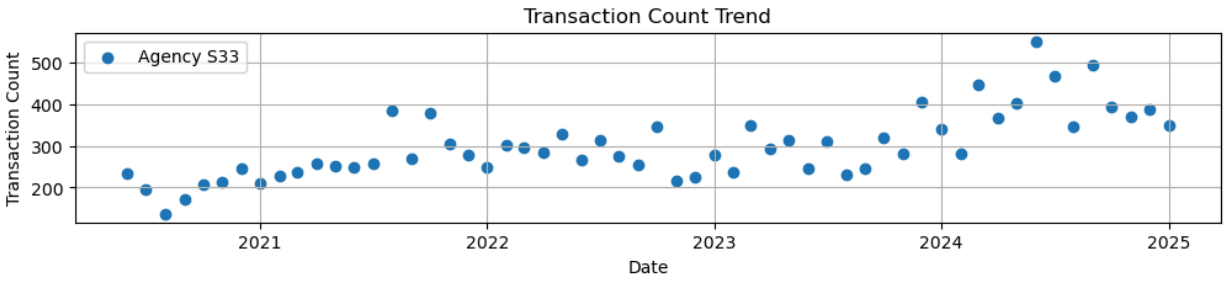
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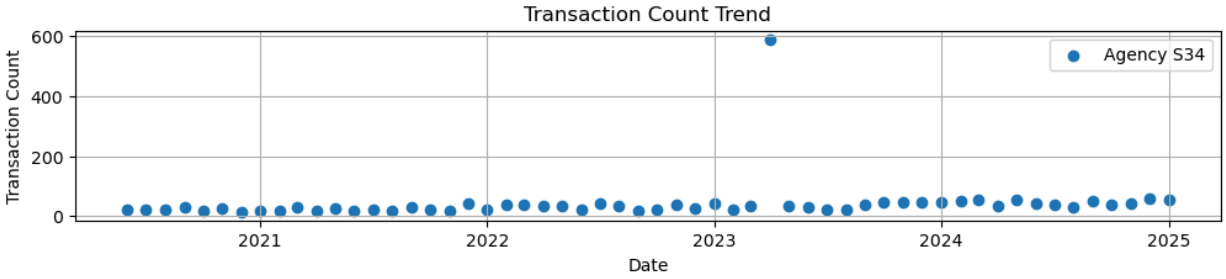
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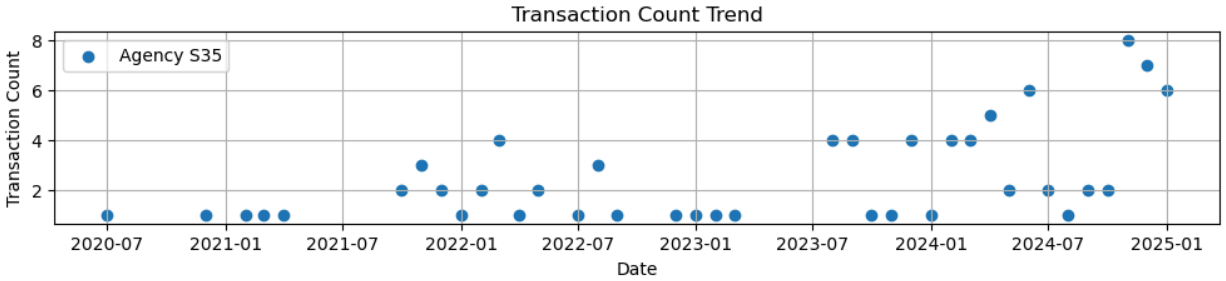
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Agency S35
Transaction Count
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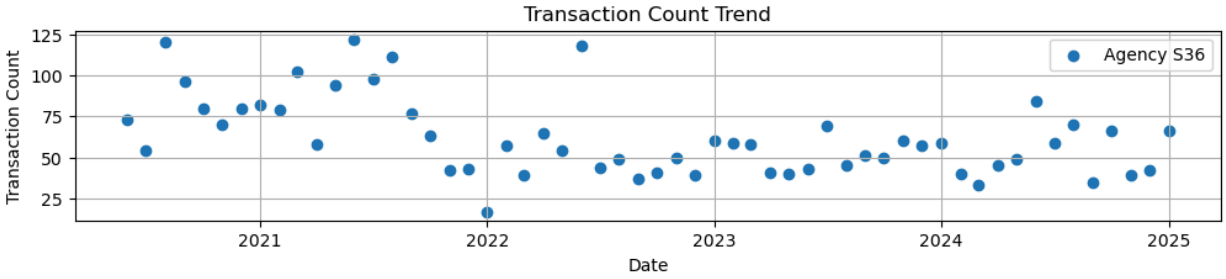
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Agency S36
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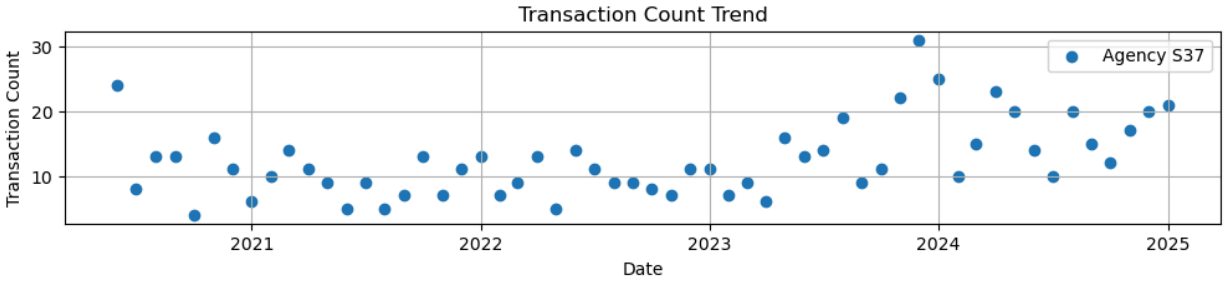
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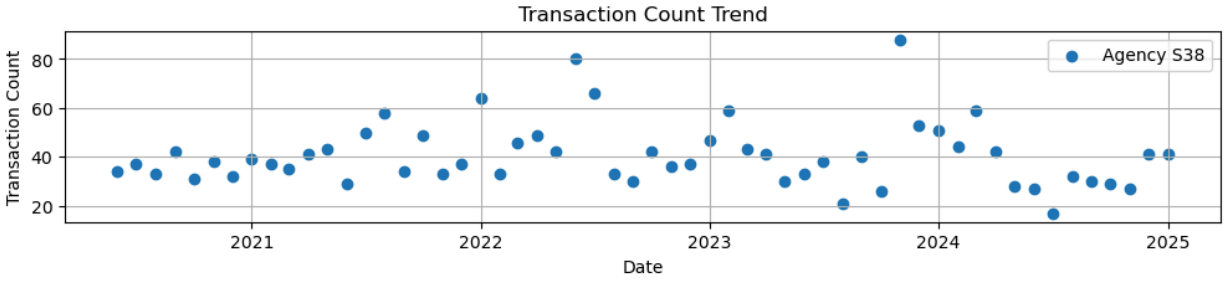
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Agency S38
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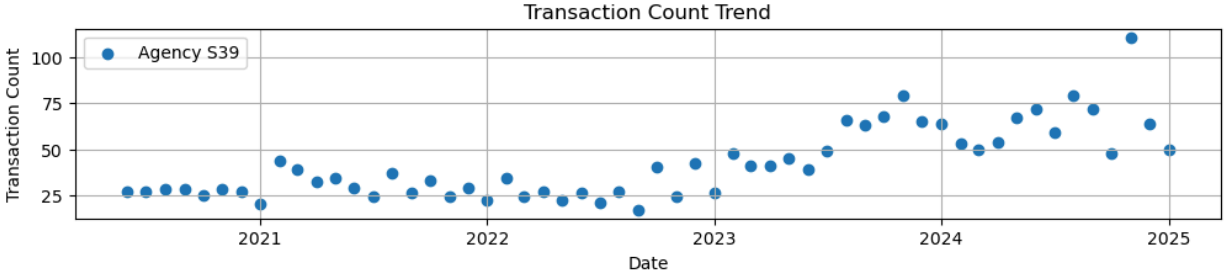
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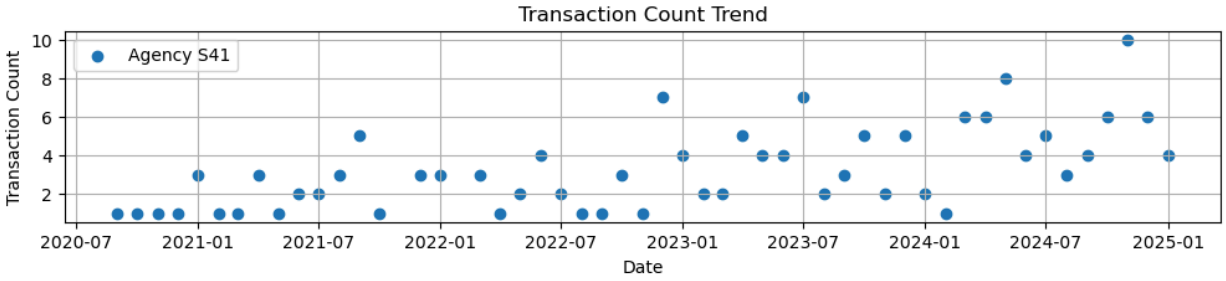
Transaction Count Trend
Agency S41
Transaction Count
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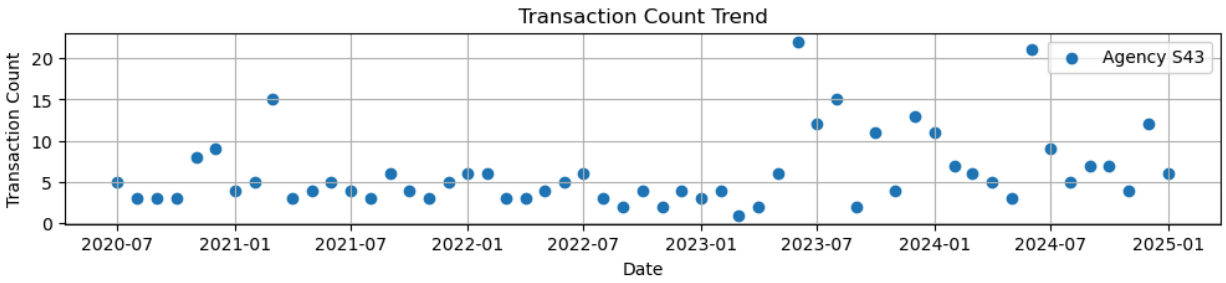
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Agency S43
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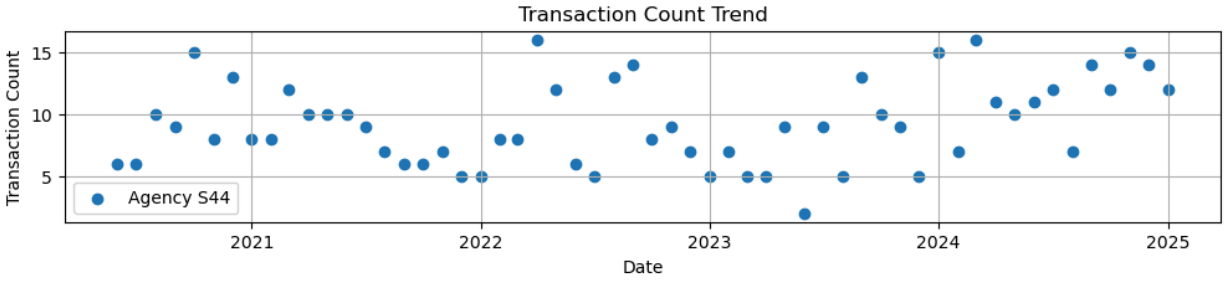
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Transaction Count
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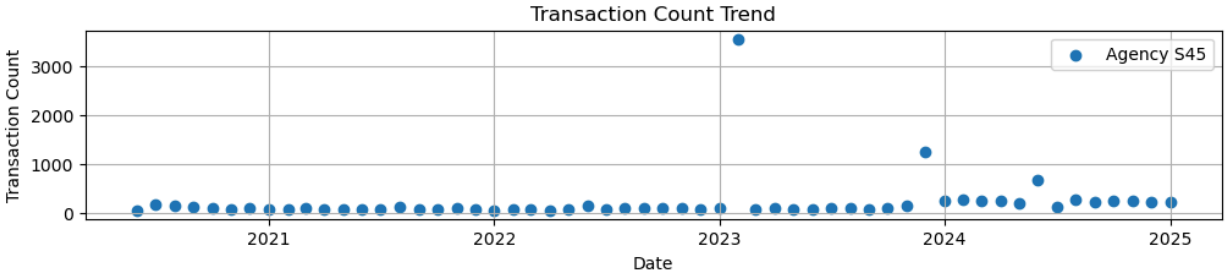
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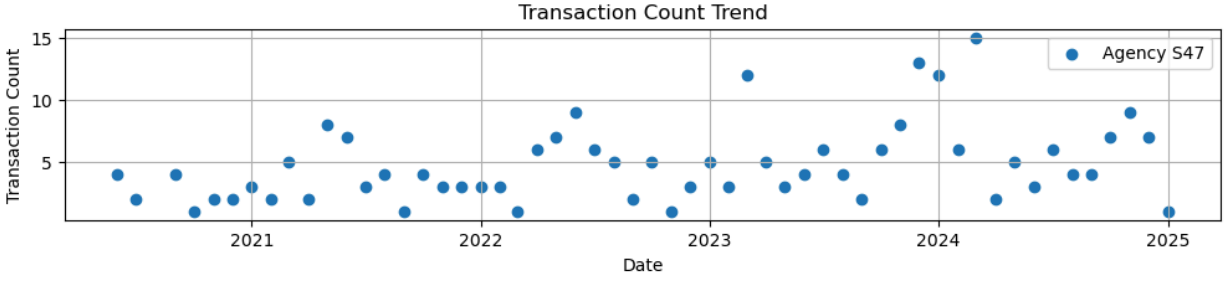
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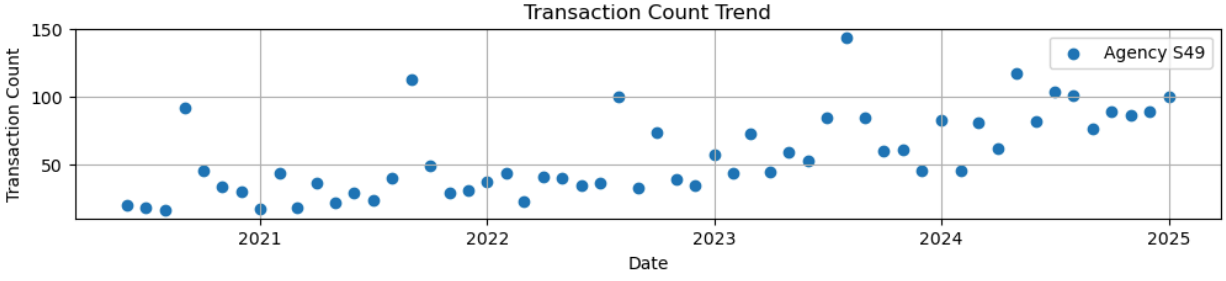
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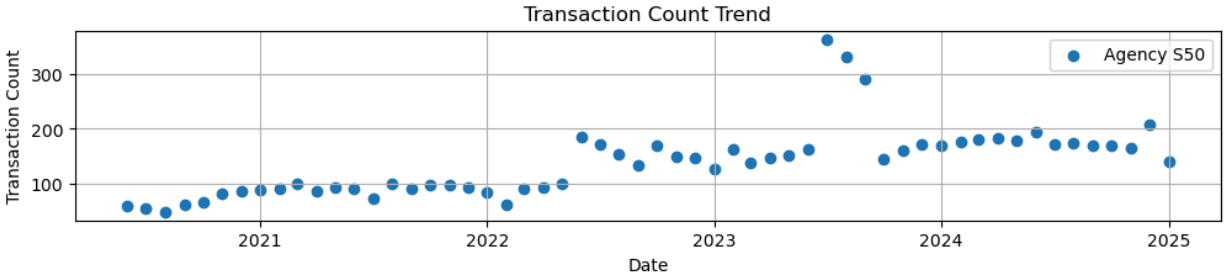
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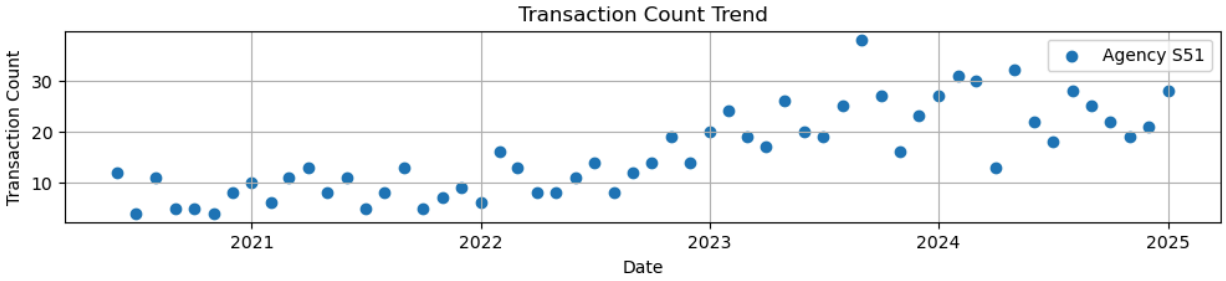
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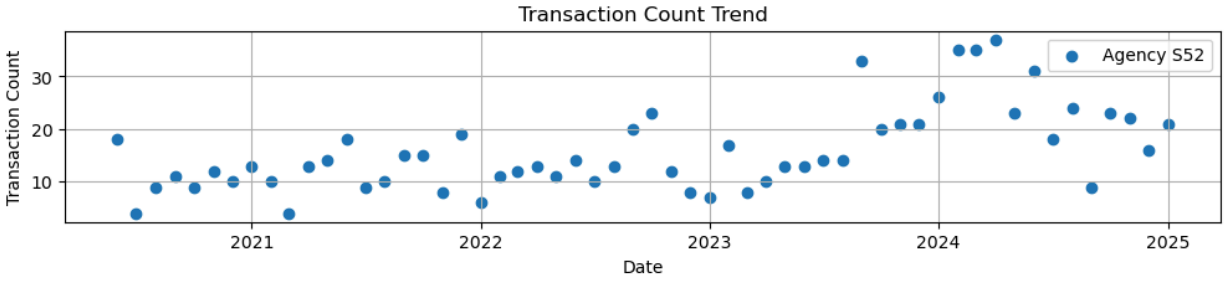
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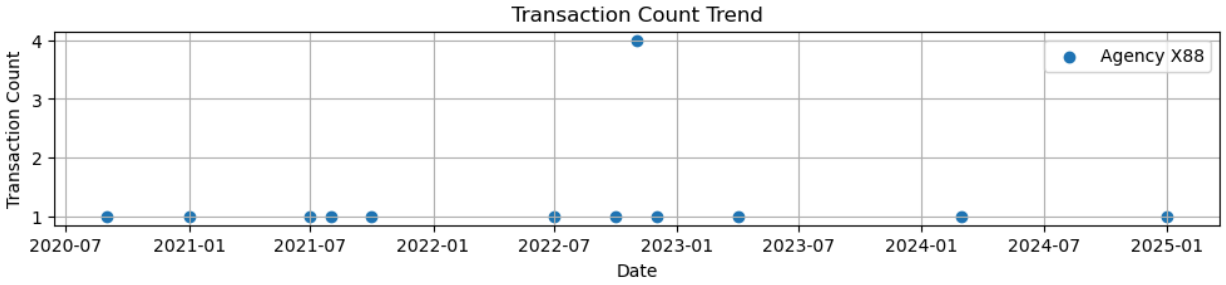
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Date

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