```
In [1]: import pandas as pd
    import numpy as np
    import plotly.express as px

In [2]: %load_ext autoreload
    %autoreload 2
    from IPython.core.display import display, HTML
    display(HTML("<style>.container { width:100% !important; }</style>"))

C:\Users\User\AppData\Local\Temp\ipykernel_18856\3509738684.py:3: DeprecationWarnin
    g: Importing display from IPython.core.display is deprecated since IPython 7.14, ple
    ase import from IPython display
    from IPython.core.display import display, HTML

In [3]: n_df = pd.read_csv(r'C:\Users\User\Desktop\myGPT\data\17052023_ver1_final_2.csv', s
```

n\_df

	ltem	Description	Vendor Name	PO Number	PO Approver	PO Order Date	Payment
0	0580B002 - Brother 4750e Facsimile Machine	0580B002 - Brother 4750e Facsimile Machine	ACC BUSINESS MACHINES	4500171174	Sarah Johnson	2013- 12-04	Net 30
1	61276 PowerBuilder Enterprise Windows X8	61276 PowerBuilder Enterprise Windows X8	Sybase, Inc. an SAP Company	BE120349	John Warren	2014- 08-06	LC
2	iMac Computer	iMac Computer	JAMES E MALONEY	REQ0009540	John Warren	2013- 06-12	Net 30
3	Adobe Photoshop	Adobe Photoshop	TABORDA SOLUTIONS	HD250042	Rebecca Johnson	2014- 06-05	Net 60
4	Autodesk AutoCad Raster Design 2015	Autodesk AutoCad Raster Design 2015	DLT SOLUTIONS LLC	4500148174	Michael Rodriguez	2015- 04-02	Net 30
•••							
4945	Zebra ZebraCare 2 Year	Zebra ZebraCare 2 Year	Statestore, Inc	4500209113	John Warren	2013- 07-05	Net 60
4946	Zebra ZebraCare 2 YR	Zebra ZebraCare 2 YR	Statestore, Inc	C11E0020	Christopher Williams	2013- 06-11	Net 60
4947	Zebra ZebraDesigner v 2.0 Pro License	Zebra ZebraDesigner v 2.0 Pro License	Statestore, Inc	14560097	Rebecca Johnson	2013- 07-05	Net 30
4948	Zebra ZM400 Network Thermal Label Printe	Zebra ZM400 Network Thermal Label Printe	Statestore, Inc	REQ0008504	John Warren	2014- 05-02	LC
4949	Zebra ZM400 Printer	Zebra ZM400 Printer	Statestore, Inc	4500258898	Kimberly Smith	2013- 07-05	Net 60

4950 rows × 9 columns

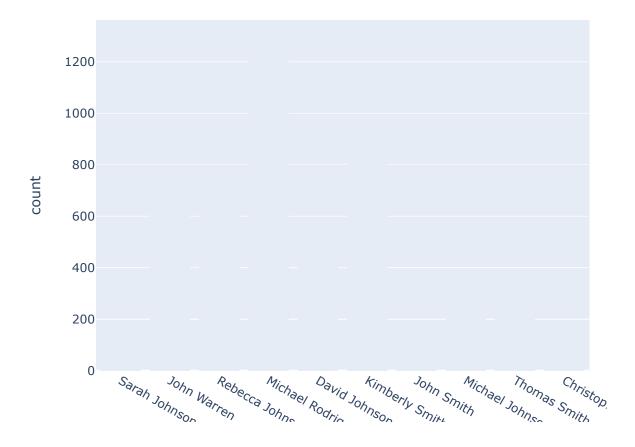
## Overview

- No histogram
  - Item, Description, PO Number

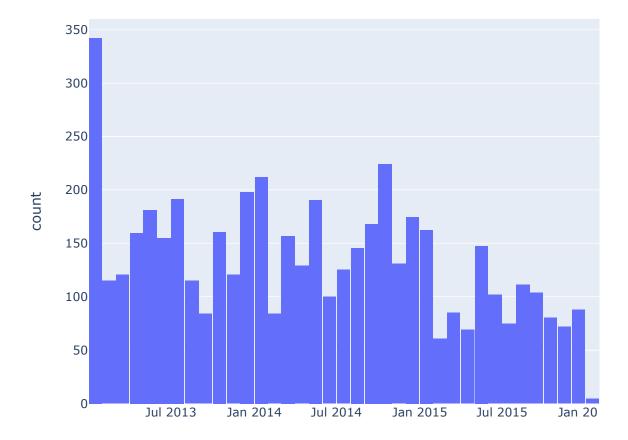
```
In [4]: # Show top 5 only
fig = px.bar(n_df, x='Vendor Name')
fig
```

```
400
count
                                                   200
                                                                           ACC BUSINESS MACHINES
                                                                                                                                                                                                                                                                                                                                    OCLC
                                                                                                                                                                                                                                                                 Bloomberg Finance L.P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RISA TECHNOLOGIES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DESERT BUSINESS MACHINES INC
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                                                                                                INSTOR SOLUTIONS INC
                                                                                                                                                                                River City Office Supply
                                                                                                                                                                                                     Ricoh Americas Corporation, Inc
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                                                                                                                                                                                                                                                                                                                                                                          Western Weather Group
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Warrigal Consulting, Incorporated
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                                                                                                                                                             IBM CORPORATION
                                                                                                                                                                                                                                                                                                                                                                                                                                       ID Wholesaler
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ID Services Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LYNDA.COM
                                                                                                                      Department of Human Resources
                                                                                                                                         Western Blue, an NWN Company
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Troux Technologies, Inc.
```

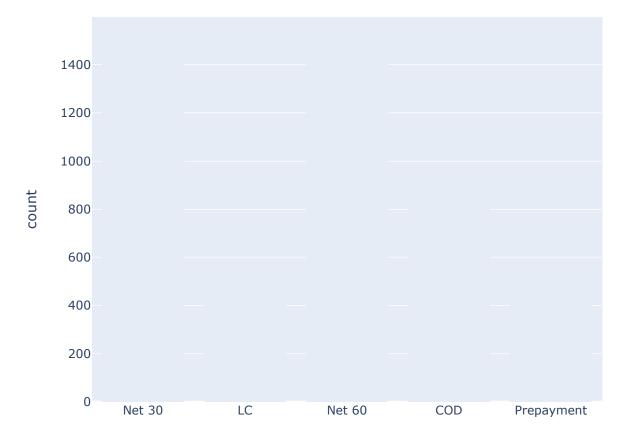
```
In [5]: fig = px.bar(n_df, x='PO Approver')
fig
```



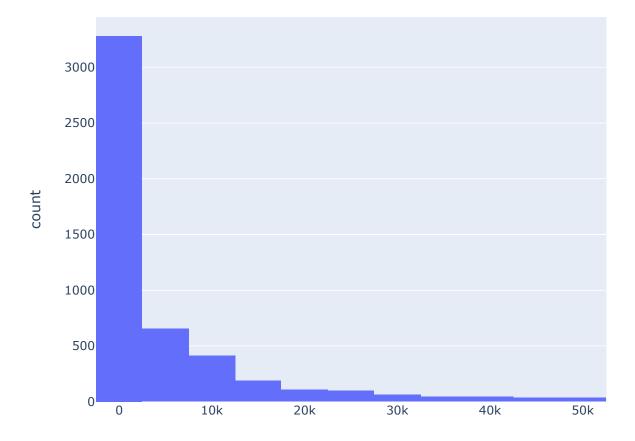
```
In [6]: fig = px.histogram(n_df, x='PO Order Date',histfunc='count')
fig.update_xaxes(type='date')
fig
```



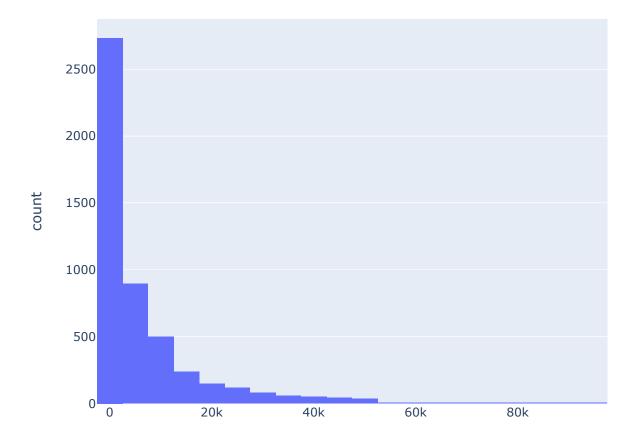
```
In [7]: fig = px.bar(n_df, x='Payment')
fig
```



```
In [8]: fig = px.histogram(n_df, x='Unit Price', histfunc='count', nbins=20)
fig
```



```
In [9]: fig = px.histogram(n_df, x='Total PO Value', histfunc='count', nbins=20)
fig
```



In [ ]: