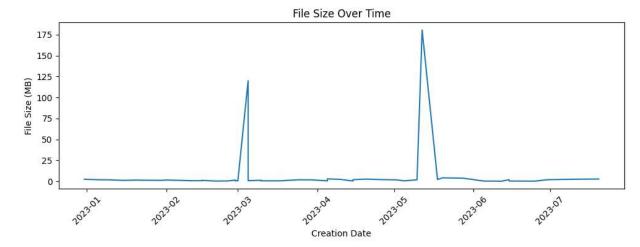
Perform the Exploratory Data Analysis on your domain-based dataset and demonstrate the retrieved insights using "Matplotlib" modules. Visualize hidden insights using appropriate plots (graphs) [Usage of line plot and scatter plot are mandatory]

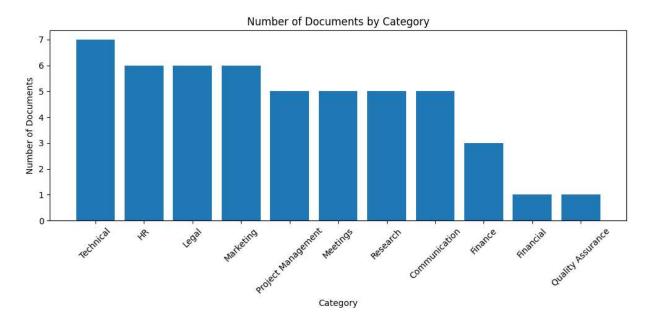
```
In [ ]: import matplotlib.pyplot as plt
   import numpy as np
   import pandas as pd
   import seaborn as sns

In [ ]: df= pd.read_csv(r'./DataSet.csv')
```

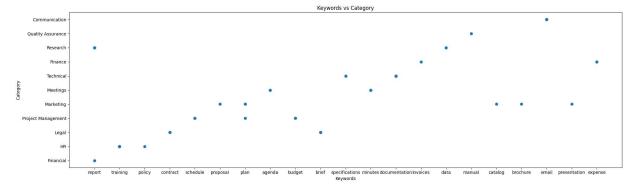
```
In [ ]: plt.figure(figsize=(10, 4))
    df['Creation Date'] = pd.to_datetime(df['Creation Date'], format='%d-%m-%Y')
    df.sort_values(by='Creation Date', inplace=True)
    plt.plot(df['Creation Date'], df['File Size (MB)'])
    plt.title('File Size Over Time')
    plt.xlabel('Creation Date')
    plt.ylabel('File Size (MB)')
    plt.xticks(rotation=45)
    plt.tight_layout()
    plt.show()
```



```
In []: plt.figure(figsize=(10, 5))
    category_counts = df['Category'].value_counts()
    plt.bar(category_counts.index, category_counts.values)
    plt.title('Number of Documents by Category')
    plt.xlabel('Category')
    plt.ylabel('Number of Documents')
    plt.xticks(rotation=45)
    plt.tight_layout()
    plt.show()
```



```
In [ ]: plt.figure(figsize=(20, 6))
    plt.scatter(df['Keywords'], df['Category'], alpha=1)
    plt.title('Keywords vs Category')
    plt.xlabel('Keywords')
    plt.ylabel('Category')
    plt.tight_layout()
    plt.show()
```



```
In []: import seaborn as sns
    contingency_table = pd.crosstab(df['Category'], df['File Format'])
    plt.figure(figsize=(10, 6))
    sns.heatmap(contingency_table, annot=True, cmap='coolwarm', fmt='d', linewidths=0.5
    plt.title('Heatmap: Category vs File Format')
    plt.xlabel('File Format')
    plt.ylabel('Category')
    plt.tight_layout()
    plt.show()
```

