In [2]:

```
import mysql.connector
import pandas as pd
```

In [7]:

In [8]:

```
query = "SELECT * FROM statment_table"
data = pd.read_sql(query, connection)
```

C:\Users\mital\AppData\Local\Temp\ipykernel_22260\393692225.py:2: UserWar
ning: pandas only supports SQLAlchemy connectable (engine/connection) or
database string URI or sqlite3 DBAPI2 connection. Other DBAPI2 objects ar
e not tested. Please consider using SQLAlchemy.
 data = pd.read_sql(query, connection)

In [9]:

```
connection.close()
data.head()
```

Out[9]:

	Date	Narration	Chq/Ref_No	Value_Dt	Withdrawal_amt	Deposit_amt	Closing_
0	15/11/21	Transaction 1	MIR2231112059632	15/11/21	3.54		
1	01/01/22	Transaction 2	000000000000000000000000000000000000000	31/12/21		167	
2	24/02/22	Transaction 3	MIR2205117857402	24/02/22	3.54		
3	06/03/22	Transaction 4	0000206582647629	06/03/22		1	
4	06/03/22	Transaction 5	0000206522203538	06/03/22		1	

In [30]:

```
import pandas as pd
import matplotlib.pyplot as plt

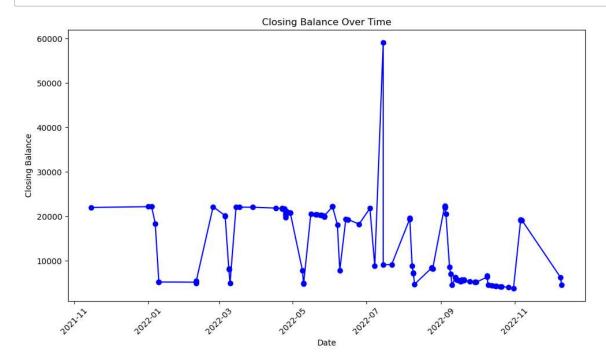
df = pd.DataFrame(data)

df['Date'] = pd.to_datetime(df['Date'])

df['Value_Dt'] = pd.to_datetime(df['Value_Dt'])

df = df.sort_values(by='Date')

plt.figure(figsize=(10, 6))
 plt.plot(df['Date'], df['Closing_Balance'], marker='o', linestyle='-', color='b')
 plt.xlabel('Date')
 plt.ylabel('Closing_Balance')
 plt.title('Closing_Balance Over Time')
 plt.xticks(rotation=45)
 plt.tight_layout()
 plt.show()
```



```
In [32]:
```

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
df = pd.DataFrame(data, columns=columns)
df["Date"] = pd.to datetime(df["Date"])
df["Value Dt"] = pd.to datetime(df["Value Dt"])
df.set index("Date", inplace=True)
plt.figure(figsize=(12, 6))
plt.subplot(2, 2, 1)
df["Closing Balance"].plot()
plt.title("Closing Balance over Time")
plt.xlabel("Date")
plt.vlabel("Closing Balance")
plt.subplot(2, 2, 2)
df[["Withdrawal_amt", "Deposit_amt"]].sum().plot(kind="bar")
plt.title("Total Withdrawals and Deposits")
plt.xlabel("Transaction Type")
plt.ylabel("Amount")
plt.subplot(2, 2, 3)
sns.histplot(df["Withdrawal_amt"], bins=10, kde=True)
plt.title("Distribution of Withdrawal Amounts")
plt.xlabel("Withdrawal Amount")
plt.ylabel("Frequency")
plt.tight_layout()
plt.show()
```

