

```
from google.colab import files
```

```
# Upload the file
```

```
uploaded = files.upload()
```



Choose Files Day_9_banking_data.csv

- **Day_9_banking_data.csv**(text/csv) - 1285 bytes, last modified: 1/24/2025 - 100% done
Saving Day_9_banking_data.csv to Day_9_banking_data.csv

```
import pandas as pd
```

```
fp='Day_9_banking_data.csv'
```

```
banking_data=pd.read_csv(fp)
```

```
print("First 5 rows of the dataset:")
```

```
print(banking_data.head())
```



First 5 rows of the dataset:

	Date	Account_Type	Branch	Transaction_Type \
0	2023-01-19	Fixed Deposit	Central	Loan Payment
1	2023-01-16	Current	Uptown	Withdrawal
2	2023-01-10	Current	Uptown	Loan Payment
3	2023-01-18	Savings	Uptown	Loan Payment
4	2023-01-14	Recurring Deposit	Suburban	Loan Payment

	Transaction_Amount	Account_Balance
0	985.51	6839.59
1	641.43	8908.39
2	3363.85	12428.67
3	1914.60	5776.63
4	2788.57	4779.04

```
print("\nBasic statistics of numerical columns:")
```

```
print(banking_data.describe())
```



Basic statistics of numerical columns:

	Transaction_Amount	Account_Balance
--	--------------------	-----------------

count	20.000000	20.000000
mean	2705.829500	7967.766500
std	1429.829787	2770.248821
min	641.430000	2592.160000
25%	1482.085000	6460.127500
50%	2567.645000	7905.275000
75%	4121.525000	9127.702500
max	4683.640000	12836.510000

```
print("\nMissing values in the dataset:")
print(banking_data.isnull().sum())
```



Missing values in the dataset:

```
Date      0
Account_Type  0
Branch     0
Transaction_Type  0
Transaction_Amount  0
Account_Balance  0
dtype: int64
```

```
import pandas as pd
fp='Day_9_banking_data.csv'
banking_data=pd.read_csv(fp)
account_group = banking_data.groupby('Account_Type').agg({
    'Transaction_Amount': 'sum',          # Total sum of Transaction_Amount
    'Account_Balance': 'mean'            # Average Account_Balance
}).rename(columns={
    'Transaction_Amount': 'Total_Transaction_Amount',
    'Account_Balance': 'Average_Account_Balance'
})
print("Aggregations by Account_Type:")
print(account_group)
```



```
Aggregations by Account_Type:
              Total_Transaction_Amount  Average_Account_Balance
Account_Type
```

Current	15052.57	9893.404000
Fixed Deposit	14102.59	6120.380000
Recurring Deposit	15179.99	7627.283333
Savings	9781.44	9134.110000

```
branch_group = banking_data.groupby('Branch').agg({
    'Transaction_Amount': ['count', 'mean'] # Count of transactions and average Transaction_Amount
}).rename(columns={
    'count': 'Total_Transactions',
    'mean': 'Average_Transaction_Amount'
})
# Flatten the multi-level column names
branch_group.columns = ['Total_Transactions', 'Average_Transaction_Amount']
print("\nAggregations by Branch:")
print(branch_group)
```



Aggregations by Branch:

Branch	Total_Transactions	Average_Transaction_Amount
Central	8	2942.338750
Downtown	3	3188.703333
Suburban	5	2773.278000
Uptown	4	1786.345000

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