**CAPSTONE PROJECT**

**Converting and Loading Tables (JSON, XML, Excel files are converted to CSV)**

**Customers(Database file)**

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**Accounts (JSON)**

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**Transactions (CSV)**

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**Employees(XML)**

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**Loans (CSV)**

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**Payment History(CSV)**

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**Branches(JSON)**

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**CAPSTONE PROJECT**

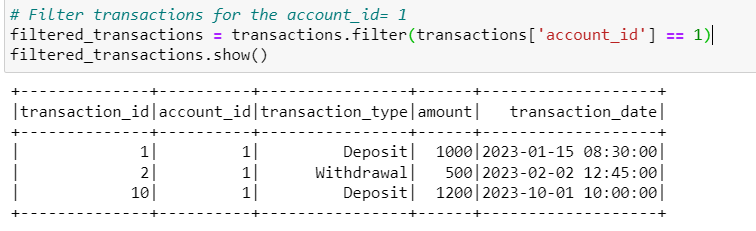
**Basic Reports**

1. Write a spark dataframe to show the balance amount for an account\_id = 1:

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1. List Transactions for an account\_id = 1:



1. List Accounts with a zero balance:

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1. Find the Oldest Customer:

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1. Calculate the Total Interest Earned Across All Accounts:

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**Account Reports**

1. List All Accounts with Customer Information:

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1. Calculate Total Balance for Each Customer:

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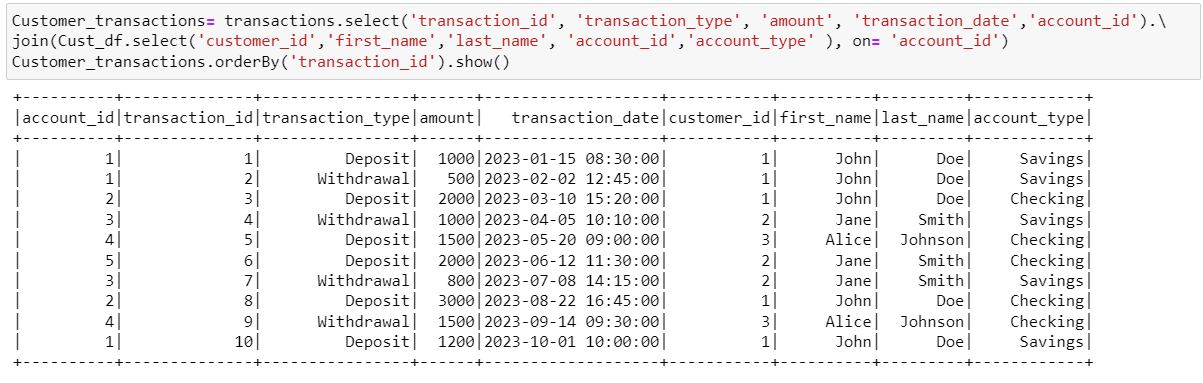
1. Find Customers with Multiple Accounts:

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**Customer Transaction Reports**

1. List Transactions with Account and Customer Information:



1. Calculate Average Transaction Amount:

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1. Identify High-Value Customers with Total Balance:

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1. List Employees and Their Assigned Customers:

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1. Calculate the Total Number of Transactions for Each Account Type:

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1. Find Customers with No Accounts:

(As per expected output)

List the Latest Transaction for Each Account:

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1. Find Customers with No Accounts

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Description automatically generated

1. Calculate the Total Withdrawals for Each Customer:

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1. Find Duplicate Transactions:

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