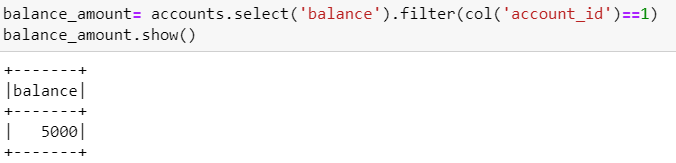
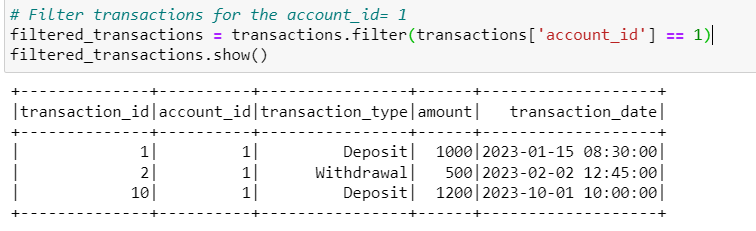
**CAPSTONE PROJECT**

**Basic Reports**

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



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



1. List Accounts with a zero balance:

A screenshot of a computer code

Description automatically generated

1. Find the Oldest Customer:

A screenshot of a computer

Description automatically generated

1. Calculate the Total Interest Earned Across All Accounts:

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Description automatically generated

**Account Reports**

1. List All Accounts with Customer Information:

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1. Calculate Total Balance for Each Customer:

A screenshot of a computer

Description automatically generated

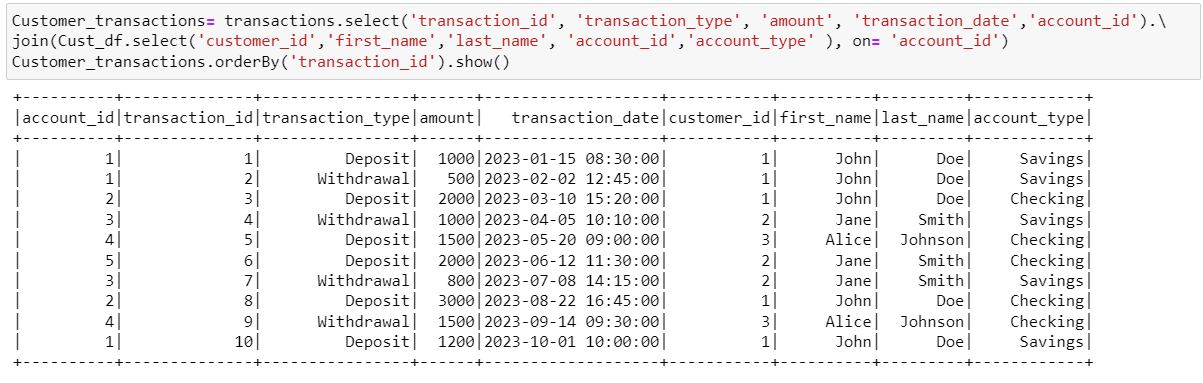
1. Find Customers with Multiple Accounts:

A screenshot of a computer

Description automatically generated

**Customer Transaction Reports**

1. List Transactions with Account and Customer Information:



1. Calculate Average Transaction Amount:

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Description automatically generated

1. Identify High-Value Customers with Total Balance:

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1. List Employees and Their Assigned Customers:

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Description automatically generated

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

A screenshot of a computer

Description automatically generated

1. Find Customers with No Accounts:

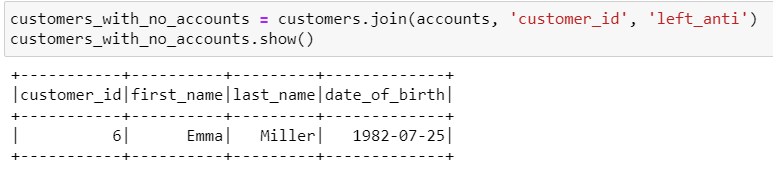
(As per expected output)

List the Latest Transaction for Each Account:

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1. Find Customers with No Accounts



1. Calculate the Total Withdrawals for Each Customer:

A screenshot of a computer

Description automatically generated

1. Find Duplicate Transactions:

A screen shot of a computer code

Description automatically generated

**Note: (Q6 and Q7 are repeated)**