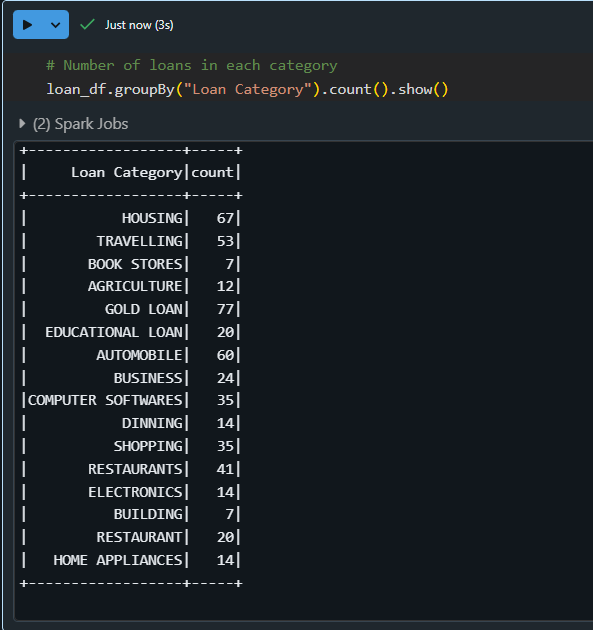
**Case Study-3**

Name: **E.R Harish**

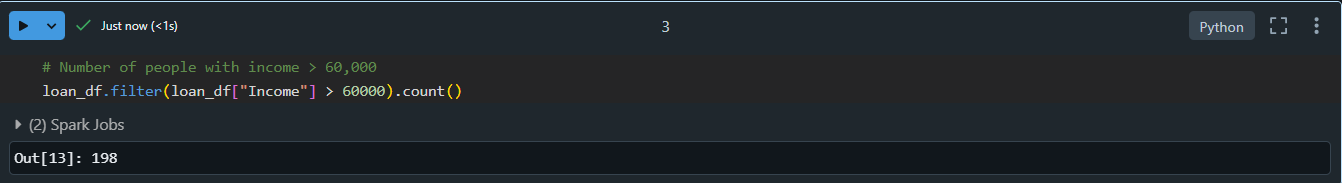
1. **Loan Data File:**
2. **Number of loans in each category:**

****

**Explanation:**

* 'groupBy' groups the data based on the 'Loan\_Category' column.
* 'count' calculates the number of rows in each group.

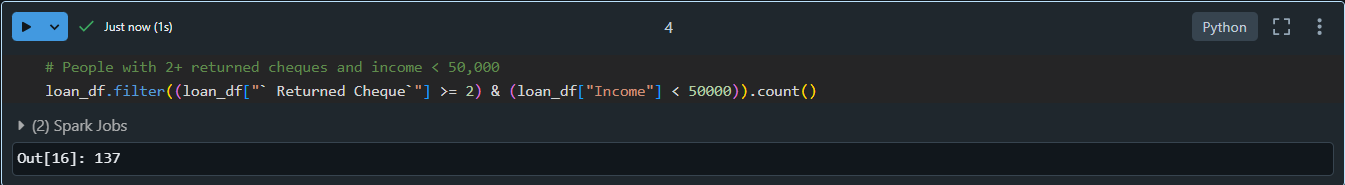
1. **Number of people with income greater than 60000 rupees:**

****

**Explanation:**

* 'filter' selects rows where 'Income' > 60000.

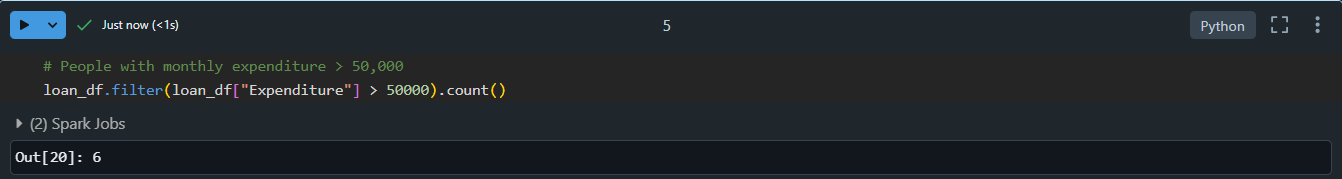
1. **Number of people with 2 or more returned cheques and income less than 50000:**

****

**Explanation:**

* Use '&' for logical AND.
* Filter rows where 'Returned\_Cheques' >= 2 and 'Income' < 50000.

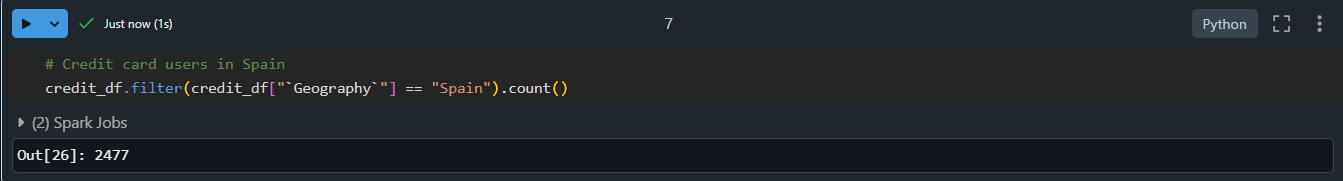
1. **Number of people with expenditure over 50,000 a month:**

****

**Explanation:**

* Filter rows where 'Expenditure' > 50000.

1. **Credit File:**
2. **Credit card users in Spain:**

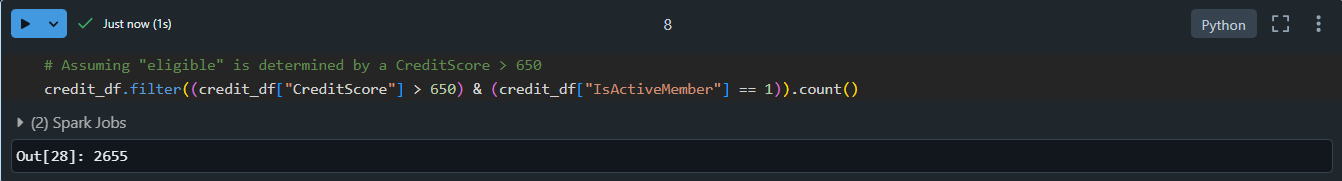
****

**Explanation:**

* Filter rows where 'Country' is "Spain".

1. **Number of members who are eligible and active in the bank:**

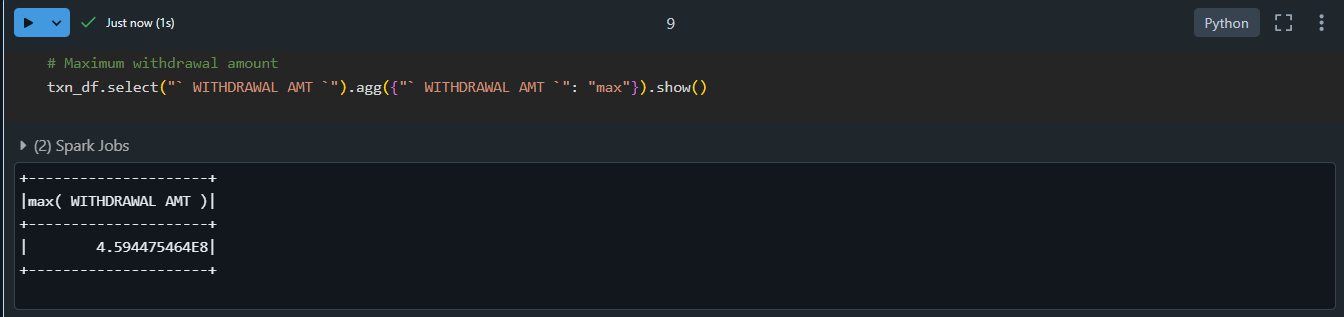
Assuming "eligible" is determined by a CreditScore > 650

****

**Explanation:**

* Filter rows where 'Eligible' and 'Active' columns have "Yes".

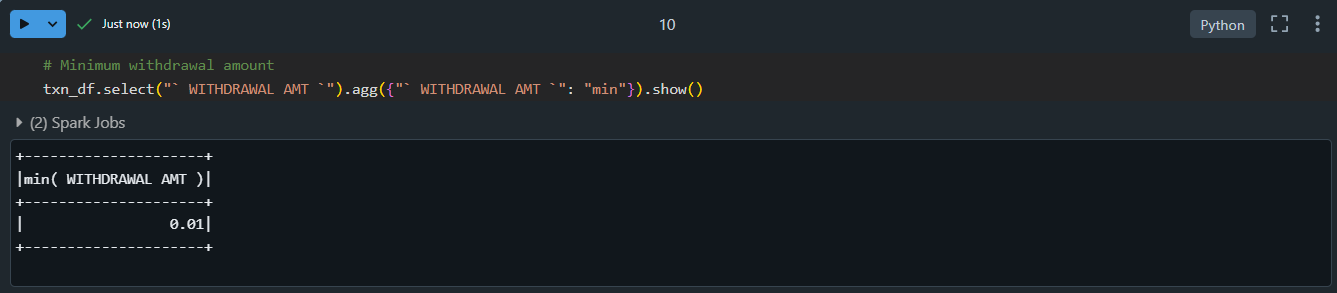
1. **Transactions File:**
2. **Maximum withdrawal amount:**

****

**Explanation:**

* Use 'agg' to calculate the maximum value in the 'Withdrawal\_Amount' column.

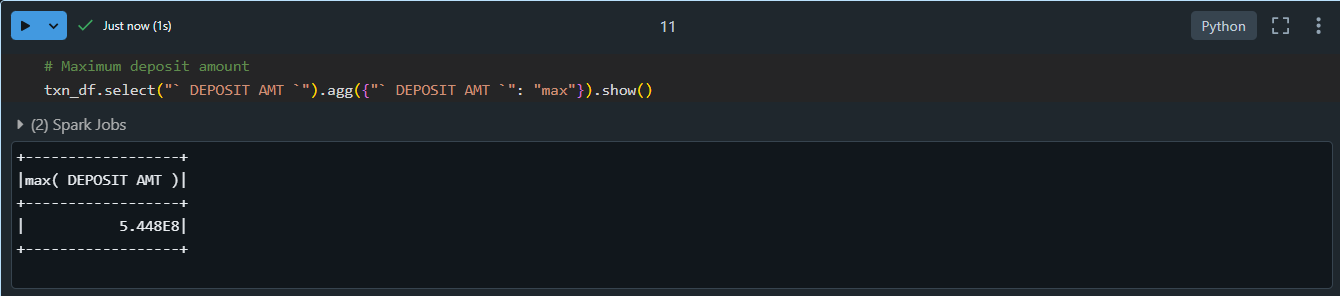
1. **Minimum withdrawal amount of an account:**

****

**Explanation:**

* Similar to the above but use 'min' for the minimum value.

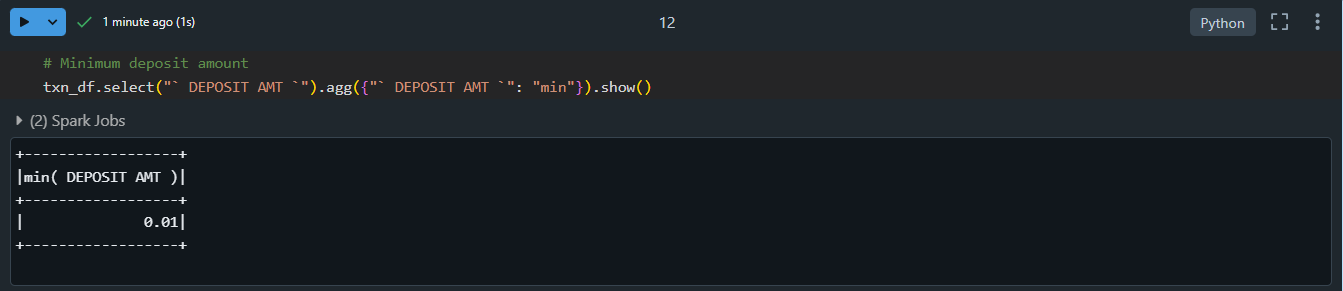
1. **Maximum deposit amount of an account:**

****

**Explanation:**

* Find the maximum value in the 'Deposit\_Amount' column.

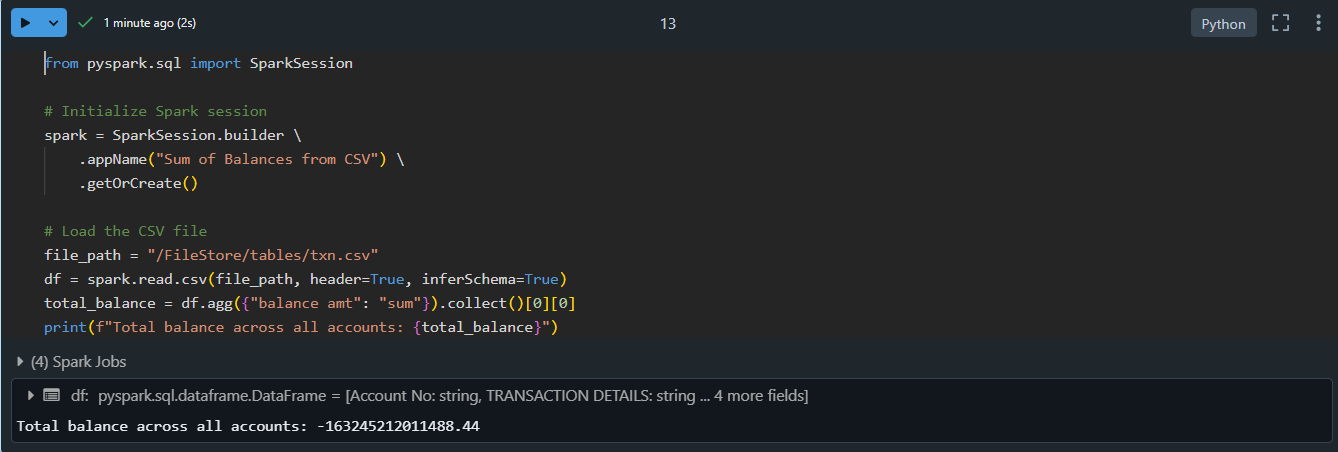
1. **Minimum deposit amount of an account:**

****

**Explanation:**

* Use 'min' for the minimum deposit amount.

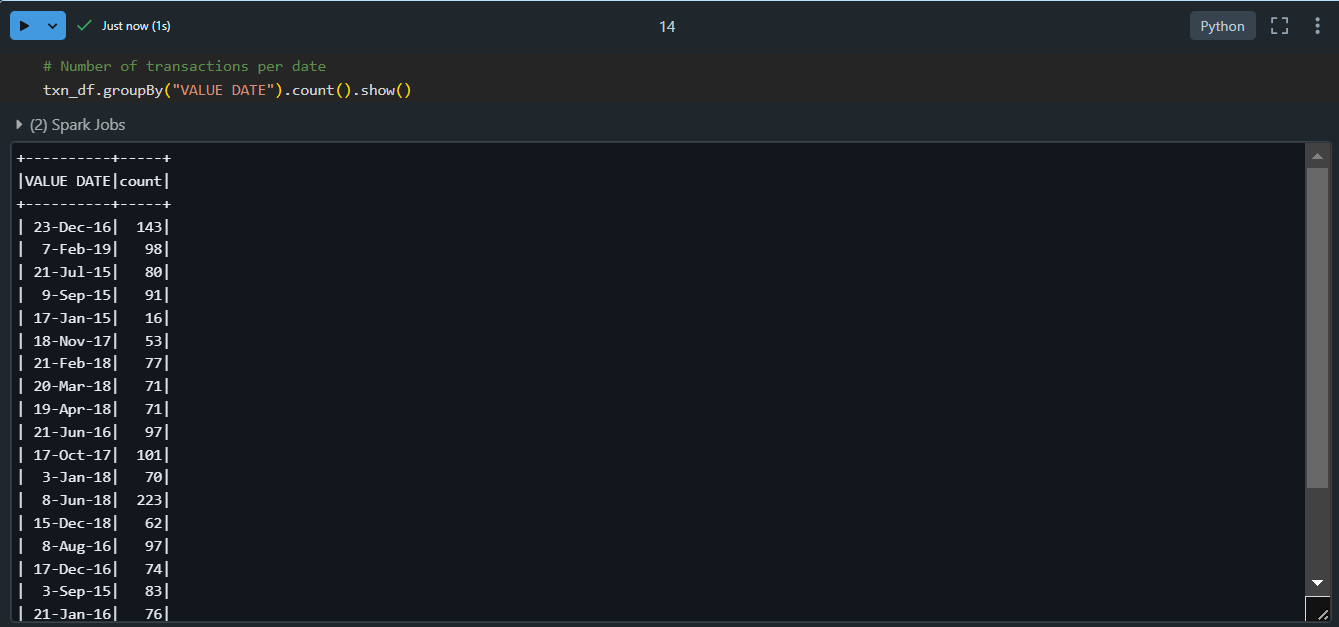
1. **Sum of balance in every bank account:**

****

**Explanation:**

* Use 'agg' to calculate the sum of all values in the 'Balance' column.

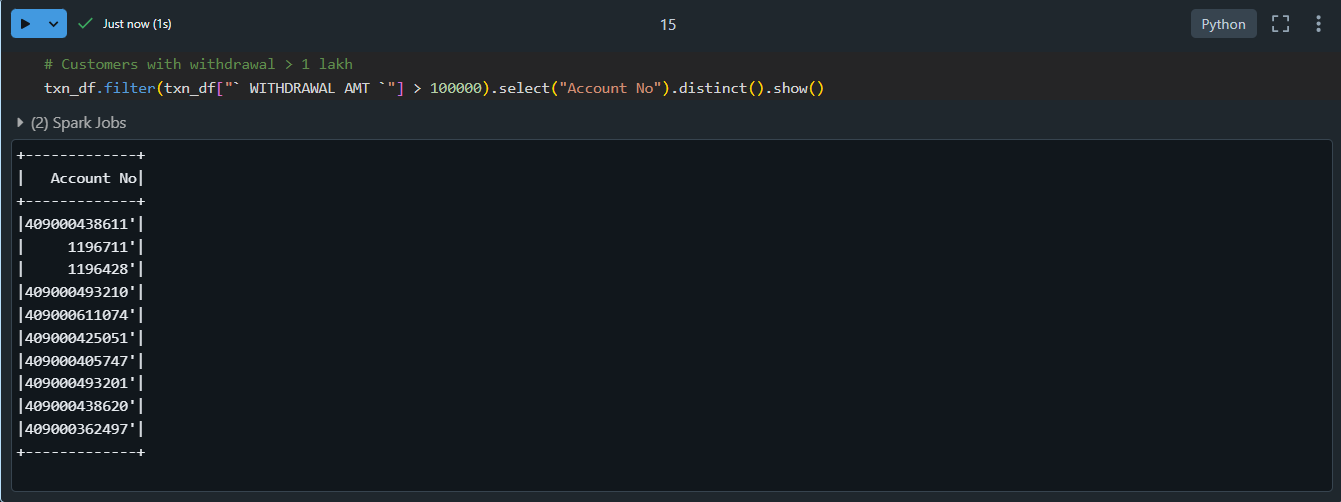
1. **Number of transactions on each date:**

****

**Explanation:**

* Group by 'Transaction\_Date' and count rows in each group.

1. **Customers with withdrawal amount more than 1 lakh:**

****

**Explanation:**

* Filter rows where 'Withdrawal\_Amount' > 100000 and select unique 'Customer\_ID'.