C:\Users\saranyap\PycharmProjects\pythonProject\venv\Scri WARNING: An illegal reflective access operation has occur WARNING: Illegal reflective access by org.apache.spark.un WARNING: Please consider reporting this to the maintainer WARNING: Use --illegal-access=warn to enable warnings of WARNING: All illegal access operations will be denied in 23/12/24 23:29:51 WARN NativeCodeLoader: Unable to load n Using Spark's default log4j profile: org/apache/spark/log Setting default log level to "WARN". To adjust logging level use sc.setLogLevel(newLevel). For

custome	r_id fir	st_name l	.ast_name da	ate_of_birth
 	1 2 3 4	John Jane Alice Sarah	Doe Smith Jhonson Jones	1980-05-15 1992-08-21 1975-02-10 1988-12-03
i I	5 6	David Emma	Brown Miller	1995-04-18 1982-07-25

+----+

+----+ |account_id|customer_id|employee_id|account_type|balance|

		·	_	
1	1	2	Savings	5000
2	1	3	Checking	1000
] 3	2	4	Savings	8000
4	3	1	Checking	3000
J 5	2	2	Checking	2500
6	3	3	Savings	6000
7	4	4	Checking	12000
8	5	2	Savings	3000
L				

+		+	+-	+
transact	ion_id accou	unt_id tran	nsaction_type a	mount tra
+			+-	+
1	1	1	Deposit	1000 2023-0
1	2	1	Withdrawal	500 2023-0
1	3	2	Deposit	2000 2023-0
1	4	3	Withdrawal	1000 2023-0

File - capstone					
1	5		4	Deposit	1500 2023-0
i İ	6		5 l	Deposit	
i	7			Withdrawal	
i	8		2		3000 2023-0
i	9			Withdrawal	
i I	10		1		1200 2023-1
+	+-				++
23/12/24	23:30:09	WARN	ProcfsMetr	icsGetter:	Exception whe
			+		
employe			first_name +		•
İ	1		Mike	•	•
	2	3	Emily	Williams	Teller
	3	2	Robert	Davis	Teller
	4	3	Olivia	Wilson	Teller
	5	2	Daniel	. Johnson	Analyst
	6	3	Sophia	Clark	Manager
	7	2	Mike	Johnson	Manager
	8	3	Emily	Williams	Teller
	9	2	Robert	Davis	Teller
	10	3	Olivia	Wilson	Teller
	11	2	Daniel	. Johnson	Analyst
	12	3	Sophia	Clark	Manager
+	+		+	+	++
			+		
Loan_1d	customer +	_1d L	oan_amount +	interest_ra	ate start_date
. 1		1 i	10000	0	.05 2023-01-01
2	-	-			.04 2023-02-15
] 3					.03 2023 - 03 - 20
4					.05 2023-01-10
+	+	+-	+		+
+	+	+	+		-+
payment		_	yment_date	-	
+			+ 2023_03_01		
			2023-03-01 2023-04-01		
			2023-04-01 2023-04-10		
1 111	ull	41	ZUZU-U4-IU	TOOL	וי

```
File - capstone
    null| 3| 2023-02-20|
                        3000
    null| 3| 2023-03-15|
                        2500 l
+-----
 -----+
|branch_id| branch_name| location|
+----+
         Main Branch|Downtown City|
     2|Suburban Branch| Suburbville|
     3|Regional Branch|Regional City|
show the balance amount for an account_id = 1:
+----+
lbalancel
+----+
l 50001
+----+
List Transactions for an account_id = 1:
+-----
|transaction_id|account_id|transaction_type|amount|
        11
               1|
                      Deposit | 1000 | 2023 - 0
               1| Withdrawal| 500|2023-0
        2 |
        10|
               11
                     Deposit| 1200|2023-1
 List Accounts with a zero balance:
+----+
|account_id|customer_id|employee_id|account_type|balance|
+----+
+----+
Find the Oldest Customer:
+----+
|customer_id|first_name|last_name|date_of_birth|
+----+
       3| Alice| Jhonson| 1975-02-10|
+----+
only showing top 1 row
```

Calculate				est Earr					
loan_id d									
1 2 3		1					0.04	2023	-01-01 -02-15
4		3		20000		1	0.05	2023	-01-10
List All A	\ ccour								
customer		ccount_	_id en	nployee ₋	_id	accoun	t_typ	e ba	lance
	1 1		2 1		3	Ch	eckir	ng gs	1000
	2		5		2	Ch	eckir	ng	2500
	2 3		3 6			Sa Sa	_		
	3 4		4 7		-			_	3000 12000
	5 +		8 +		2	S:	aving	js	3000
Calculate	Total	L Balar	nce fo	or Each	Cus	stomer:		•	·
customer									
i i	5	Dav	/id	Browr Jones	ا		3000	9	
į	2	Já	ane	Smith	n	:	10500	9	
	3	Ali	ice	Doe Jhonsor	۱		9000	9	
++									
Find Custo			_		ount	:s:			
customer_									
1	3			2					

File - capstone	1		
1 4	2 1		
4 2	2		
+	+		
List Transactions wit			
+ account_id transacti	•	•	•
2	8	Deposit	
2	3	•	2000 2023-0
1	10	•	1200 2023-1
1	2		500 2023-0
1	1	Deposit	
5	6	Deposit	· ·
3	7	Withdrawal	·
3	4	Withdrawal	•
4 4	9	Withdrawal	
	5		1500 2023-0
Calculate Average Tra	nsaction Am	ount	
 avg_transaction_amou			
+ 1450			
+	-		
Identify High-Value C	ustomers wi	th Total Bal	ance
+			
customer_id first_na +			
		n 18	
		e 17	
3 Ali		n 6	
T	-	- T	-
List Employees and Th	_		+
employee_id customer			

+	2 2 3 3 4 5	5 3 6 4 7 8	Savings Savings Checking Checking Savings	5000 2500 8000 6000 3000 12000 3000	
Calculate the Total				ch Accou	
account_type total					
+ Savings Checking +			5 5		
Find Customers with					
+ account_id custome	•	·	•	· ·	
+		+-	+-	+	
6 7	3 4		Savings Checking		
8	5	2	Savings	3000	
+	+	+-	+ -	+	
Find Customers with					
customer_id first_	name last	t_name dat	ce_of_birth ad	ccount_i	
	Emma M	/iller	1982-07-25	nul	
+	+		+		
List the Latest Transaction for Each Account:					
account_id latest_	transacti	ion_date			
+					
2 202	3-08-22 1	L6:45:00			

File - capstone	
3 2023-07-08 14:15:00	
4 2023-09-14 09:30:00	
5 2023-06-12 11:30:00	
++	
Coloulate the Total Withdrawele for Fook Customer.	
Calculate the Total Withdrawals for Each Customer:	
customer_id first_name last_name transaction_type tota	ıl_
+	
1 John Doe Withdrawal	
3 Alice Jhonson Withdrawal	
2 Jane Smith Withdrawal	
+++	
Find Duplicate Transactions:	
++	
transaction_id count	
transaction_tu coont ++	
++	
T	
SUCCESS: The process with PID 34248 (child process of P	'ID
SUCCESS: The process with PID 27776 (child process of P	
SUCCESS: The process with PID 23040 (child process of P	

Process finished with exit code 0