

```

183
184 --1.Retrieve the customer(s) with the highest account balance.
185
186 select c.customer_firstname, c.customer_phone, a.balance
187 from customers c
188 join accounts a on c.customer_id = a.customer_id
189 where a.balance = (select max(balance) from accounts)
190
191 --2.average account balance for customers who have more than one account
192 select Customer_id , avg(Balance) as Average_balance from Accounts
193 group by Customer_id
194 having count(account_id)>1
195
196 --3.Retrieve accounts with transactions whose amounts exceed the average

```

Results Messages

customer_firstname	customer_phone	balance
John	9876543210	20000.00
Sophia	9876543215	20000.00

```

196
197 --3.Retrieve accounts with transactions whose amounts exceed the average
198 select * from Transactions
199 where Amount>(select avg(Amount) from Transactions)
200
201 --4. Identify customers who have no recorded transactions
202 select c.customer_id , c.customer_firstname from customers c
203 left join accounts a on a.customer_id=c.Customer_id
204 left join Transactions t on a.Account_id=t.Account_id
205 where t.Transaction_id is null
206
207

```

15 %

Results Messages

	Transaction_id	Account_id	Transaction_type	Amount	Transaction_date
1	3	103	deposit	3000	2024-03-03
2	7	107	transfer	2500	2024-03-07
3	8	108	deposit	4000	2024-03-08
4	10	110	deposit	3500	2024-03-10
5	11	101	withdrawal	3400	2024-03-07
6	12	101	deposit	4000	2024-03-02

	customer_id	customer_firstname
1	1	John
2	6	Sophia
3	11	poornima

```

205
206 --5.e total balance of accounts with no recorded transactions
207 select a.Account_id ,sum(a.balance) as total_balance
208 from accounts a
209 left join transactions t on a.account_id = t.account_id
210 where t.transaction_id is null
211 group by a.Account_id
212
213 --6. transactions for accounts with the lowest balance.
214 select * from transactions
215 where account_id in (select account_id from accounts where balance =
216 (select min(balance) from accounts));
217
218 --7. Identify customers who have accounts of multiple types

```

6

Results Messages

Account_id	total_balance
114	20000.00
115	20000.00

Transaction_id	Account_id	Transaction_type	Amount	Transaction_date
4	104	transfer	1000	2024-03-01
8	108	deposit	4000	2024-03-08

```

218 --7. Identify customers who have accounts of multiple types
219
220 select customer_id
221 from accounts
222 group by customer_id
223 having count(distinct account_type) > 1
224
225 --8. Calculate the percentage of each account
226 --type out of the total number of accounts
227
228 select account_type, count(*) * 100.0 / (select count(*)
229 from accounts) as percentage
230 from accounts group by account_type
231
232 --9. Retrieve all transactions for a customer with a given custom
233

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%

Results Messages

customer_id
1
6

account_type	percentage
Current	33.333333333333
Saving	50.000000000000
Zero_balance	16.666666666666

```

232 --9. Retrieve all transactions for a customer with a given customer_id
233
234 select t.*
235 from transactions t
236 join accounts a on t.account_id = a.account_id
237 where a.customer_id = 1
238
239 --10. Calculate the total balance for each account type, including a sub
240 select account_type, (select sum(balance) from accounts a2
241 where a2.account_type = a1.account_type) as total_balance
242 from accounts a1 group by account_type

```

Results Messages

Transaction_id	Account_id	Transaction_type	Amount	Transaction_date
1	101	deposit	2000	2024-03-01
11	101	withdrawal	3400	2024-03-07
12	101	deposit	4000	2024-03-02

account_type	total_balance
Current	57000.00
Saving	49000.00
Zero_balance	0.00