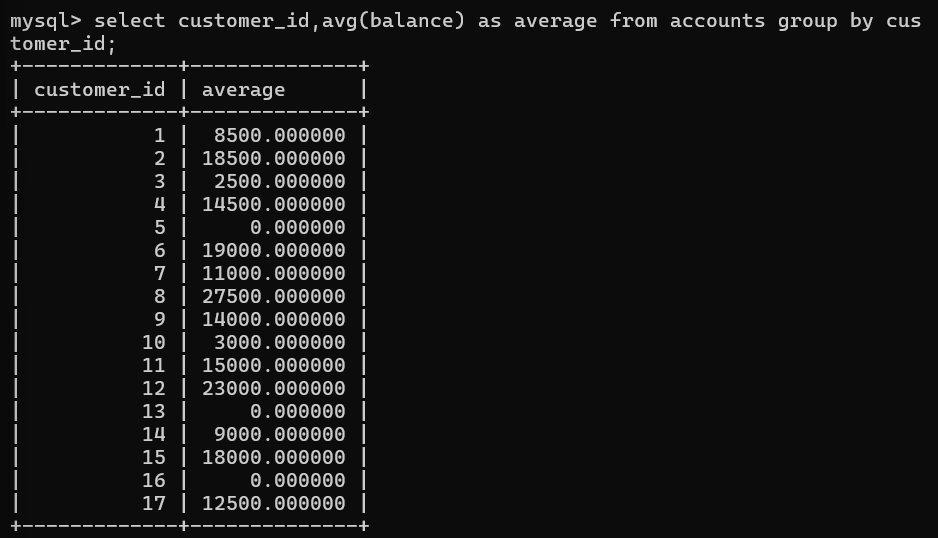
**Task 3**

1. Write a SQL query to Find the average account balance for all customers

**select customer\_id,avg(balance) as average**

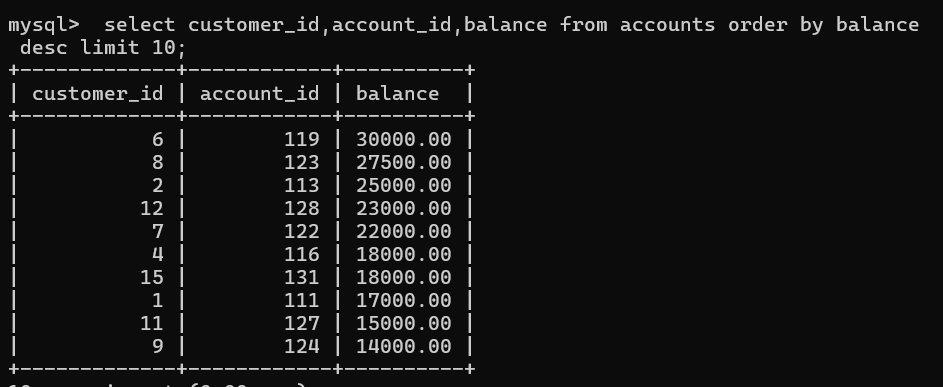
**from accounts**

**group by customer\_id;**

****

2. Write a SQL query to Retrieve the top 10 highest account balances**.**

**select customer\_id,account\_id,balance from accounts order by balance desc limit 10;**



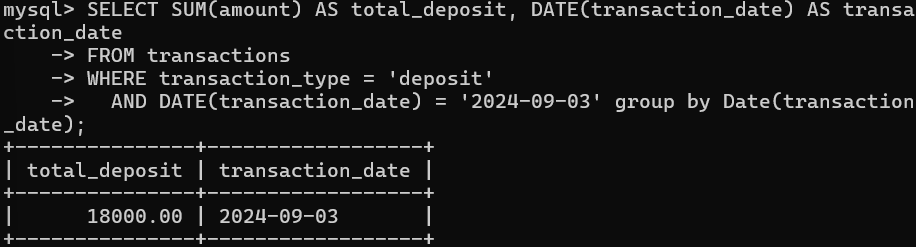
3. Write a SQL query to Calculate Total Deposits for All Customers in specific date

**SELECT SUM(amount) AS total\_deposit, DATE(transaction\_date) AS transaction\_date**

**FROM transactions**

**WHERE transaction\_type = 'deposit' AND DATE(transaction\_date) = '2023-09-15'**

**GROUP BY DATE(transaction\_date);**

****

4. Write a SQL query to Find the Oldest and Newest Customers.

**SELECT c.customer\_id, c.first\_name, c.last\_name, a.account\_joining\_date**

**FROM customers c**

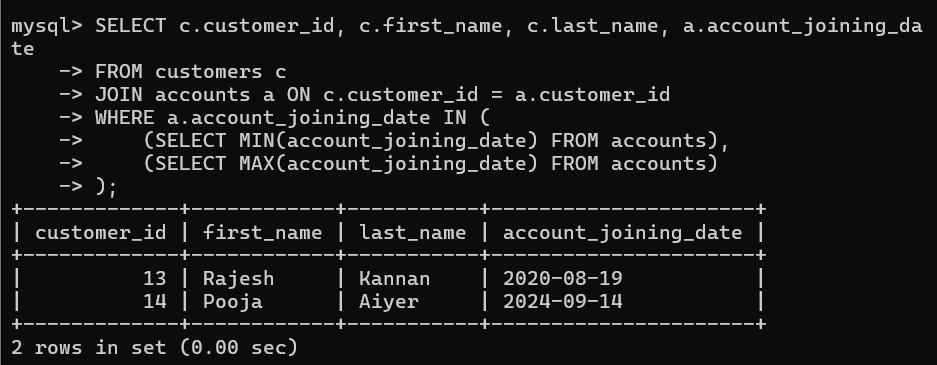
**JOIN accounts a ON c.customer\_id = a.customer\_id**

**WHERE a.account\_joining\_date IN (**

**(SELECT MIN(account\_joining\_date) FROM accounts),**

**(SELECT MAX(account\_joining\_date) FROM accounts)**

**);**



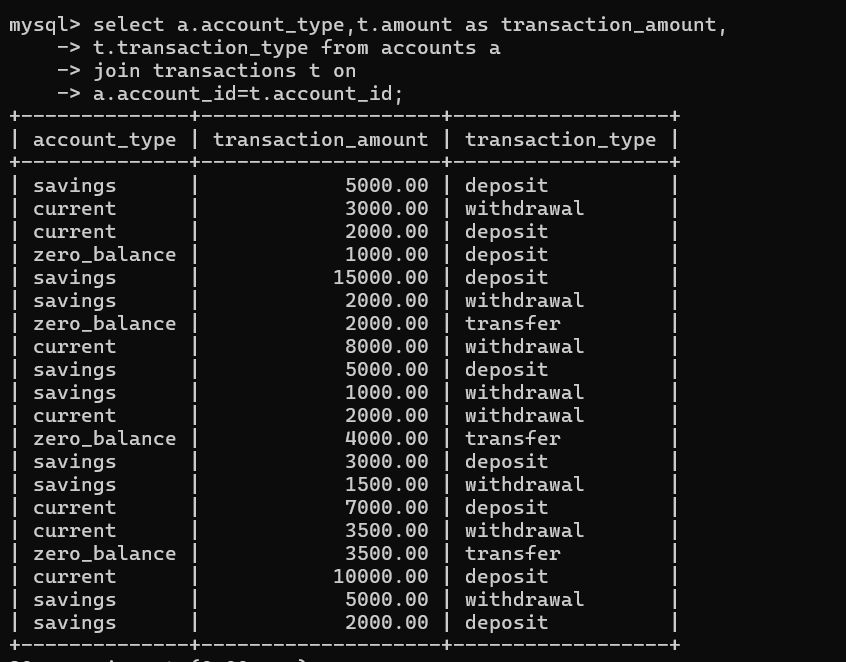
5. Write a SQL query to Retrieve transaction details along with the account type.

**select a.account\_type,t.amount as transaction\_amount,**

**t.transaction\_type from accounts a**

**join transactions t on**

**a.account\_id=t.account\_id;**

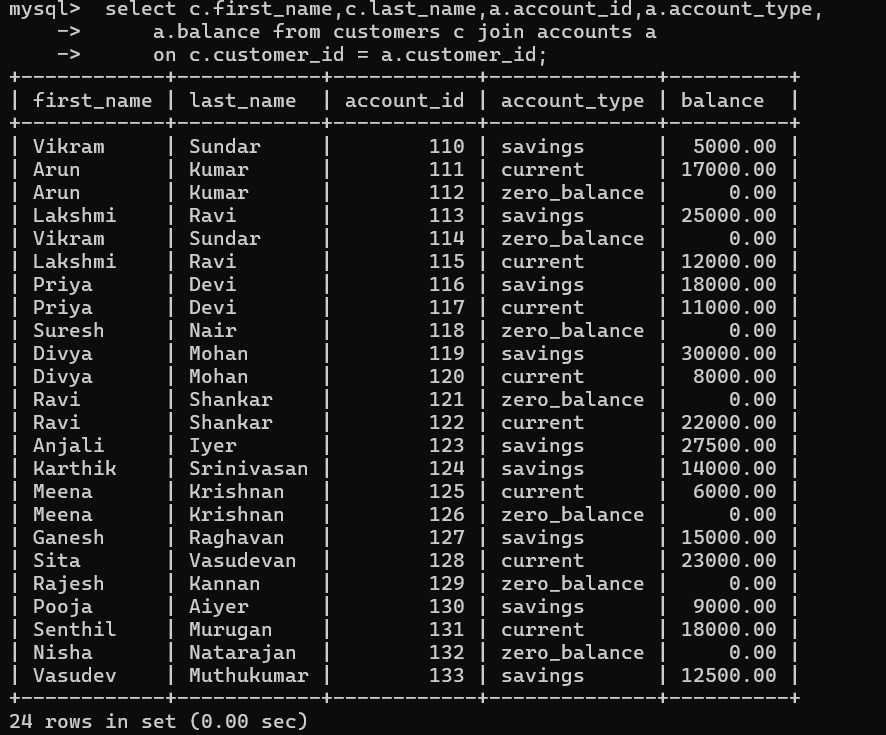
****

6. Write a SQL query to Get a list of customers along with their account details.

**select c.first\_name,c.last\_name,a.account\_id,a.account\_type,**

**a.balance from customers c join accounts a**

**on c.customer\_id = a.customer\_id;**

****

7.Write a SQL query to Retrieve transaction details along with customer information for a specific account?

**SELECT c.first\_name,**

**c.last\_name,**

**a.account\_id,**

**t.transaction\_type,**

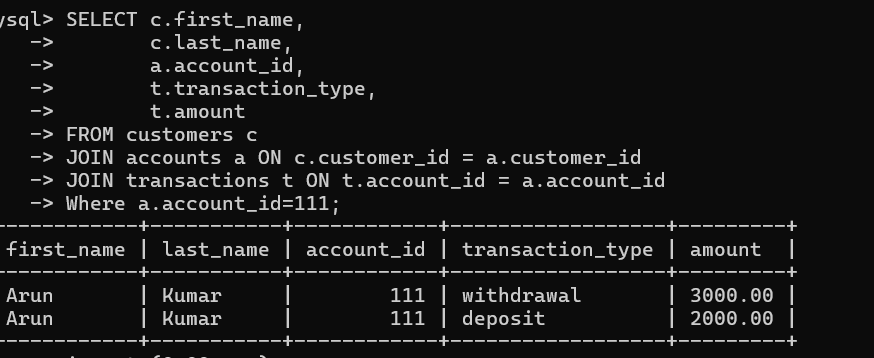
**t.amount**

**FROM customers c**

**JOIN accounts a ON c.customer\_id = a.customer\_id**

**JOIN transactions t ON t.account\_id = a.account\_id**

**Where a.account\_id=111;**

****

8. Write a SQL query to Identify customers who have more than one account

**Select c.customer\_id,c.first\_name,c.last\_name,**

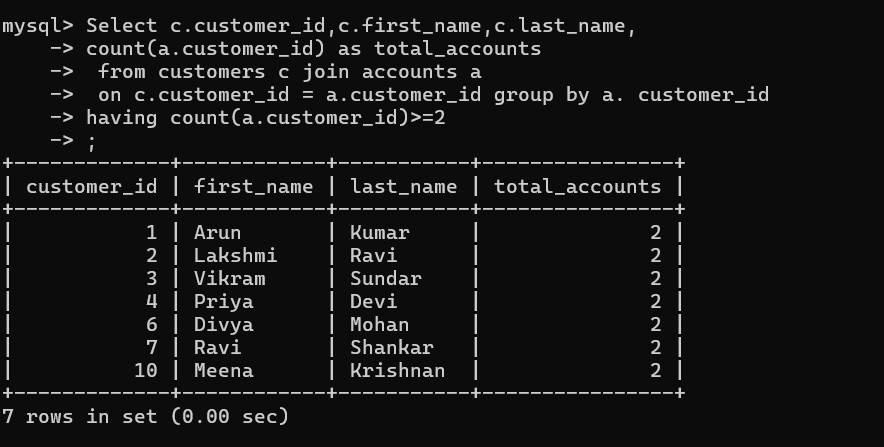
**count(a.customer\_id) as total\_accounts**

**from customers c join accounts a**

**on c.customer\_id = a.customer\_id**

**group by a. customer\_id**

**having count(a.customer\_id)>1;**

****

9. Write a SQL query to Calculate the difference in transaction amounts between deposits and withdrawals

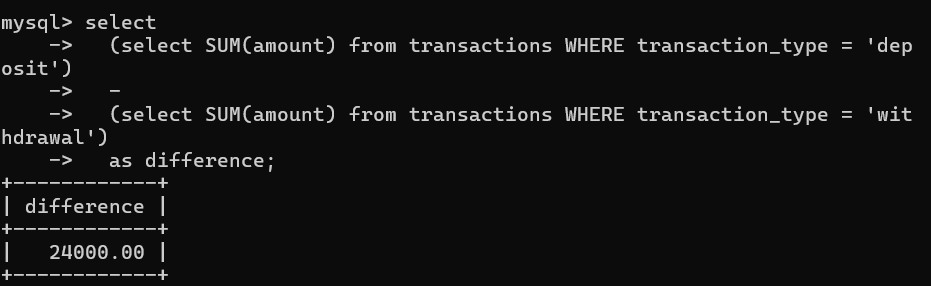
**select**

**(select SUM(amount) from transactions WHERE transaction\_type = 'deposit')**

**-**

**(select SUM(amount) from transactions WHERE transaction\_type = 'withdrawal')**

**as difference;**

****

10. Write a SQL query to Calculate the average daily balance for each account over a specified period

**SELECT a.account\_id,**

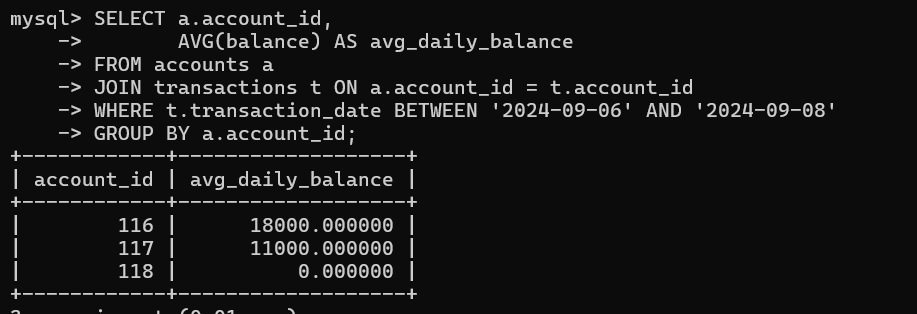
**AVG(balance) AS avg\_daily\_balance**

**FROM accounts a**

**JOIN transactions t ON a.account\_id = t.account\_id**

**WHERE t.transaction\_date BETWEEN '2024-09-06' AND '2024-09-08'**

**GROUP BY a.account\_id;**

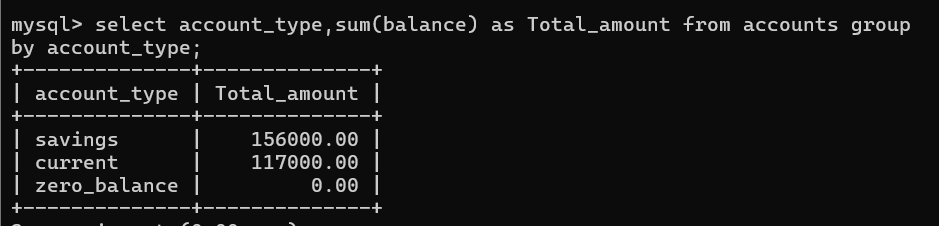
****

11. Calculate the total balance for each account type

**select account\_type,sum(balance) as Total\_amount**

**from accounts**

**Group by account\_type;**

****

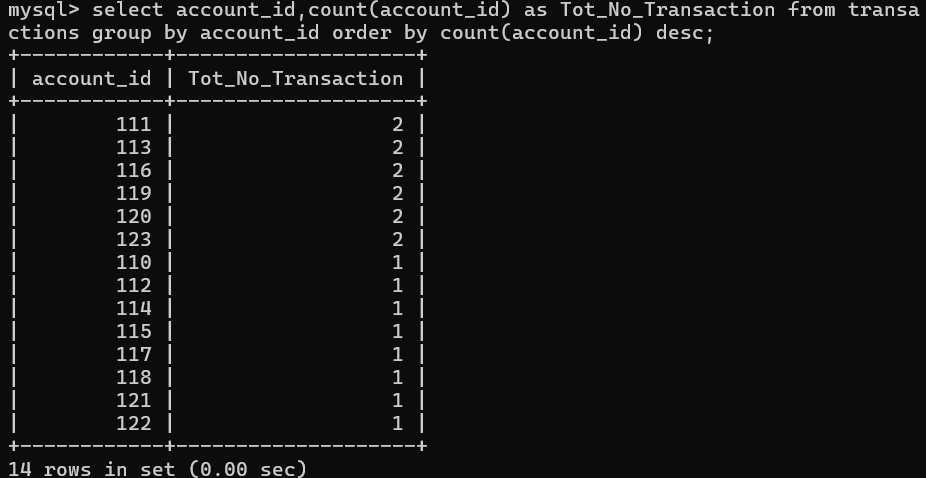
12. Identify accounts with the highest number of transactions order by descending order.

**select account\_id,count(account\_id) as Tot\_No\_Transaction**

**from transactions**

**group by account\_id**

**order by count(account\_id) desc;**

****

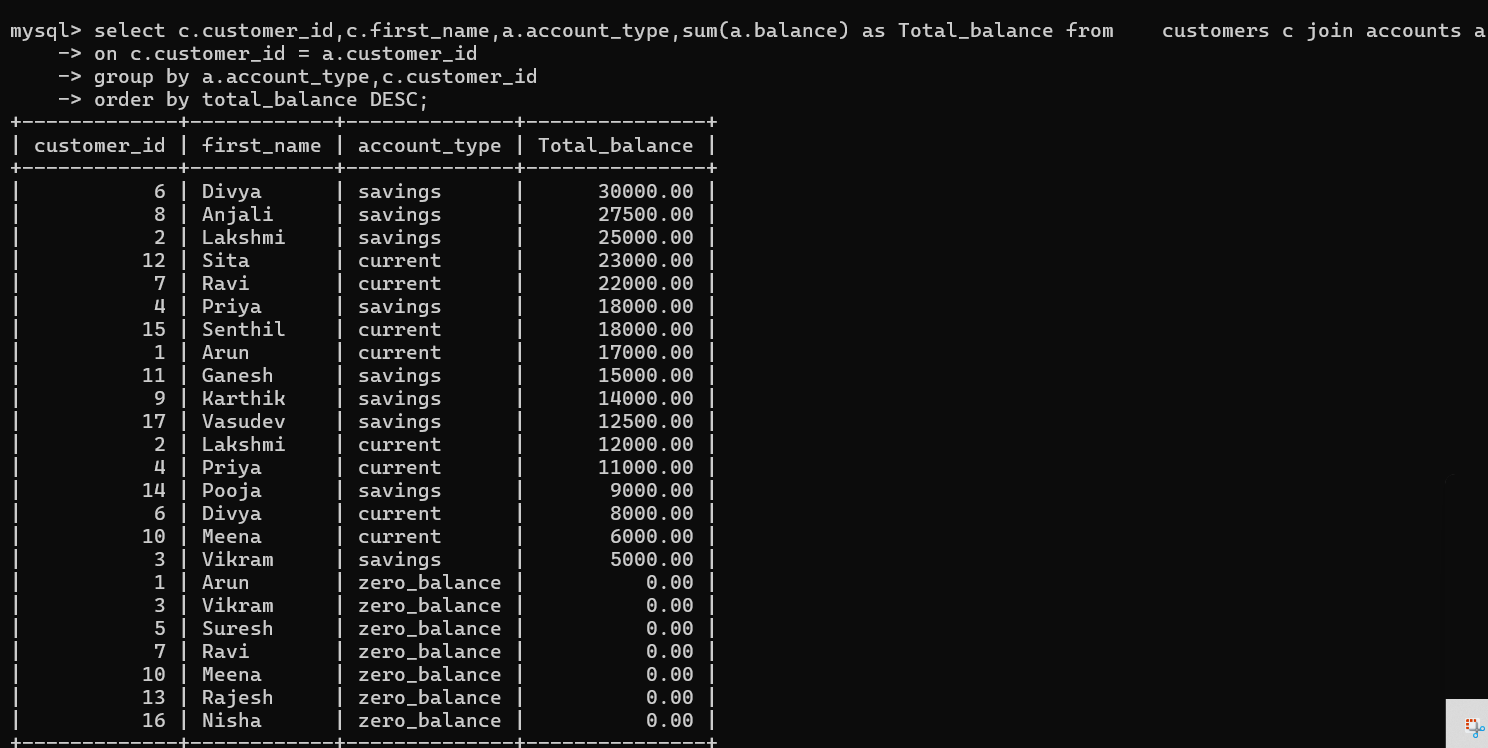
13. List customers with high aggregate account balances, along with their account types.

**select c.customer\_id,c.first\_name,a.account\_type,sum(a.balance) as Total\_balance from customers c join accounts a**

**on c.customer\_id = a.customer\_id**

**group by a.account\_type,c.customer\_id**

**order by total\_balance DESC;**

****

14. Identify and list duplicate transactions based on transaction amount, date, and account

**Select t.account\_id, t.amount, t.transaction\_date, COUNT(\*) AS transaction\_count**

**From Transactions t**

**Group by t.account\_id, t.amount, t.transaction\_date**

**Having transaction\_count > 1**

**Order by t.account\_id, t.transaction\_date;**

