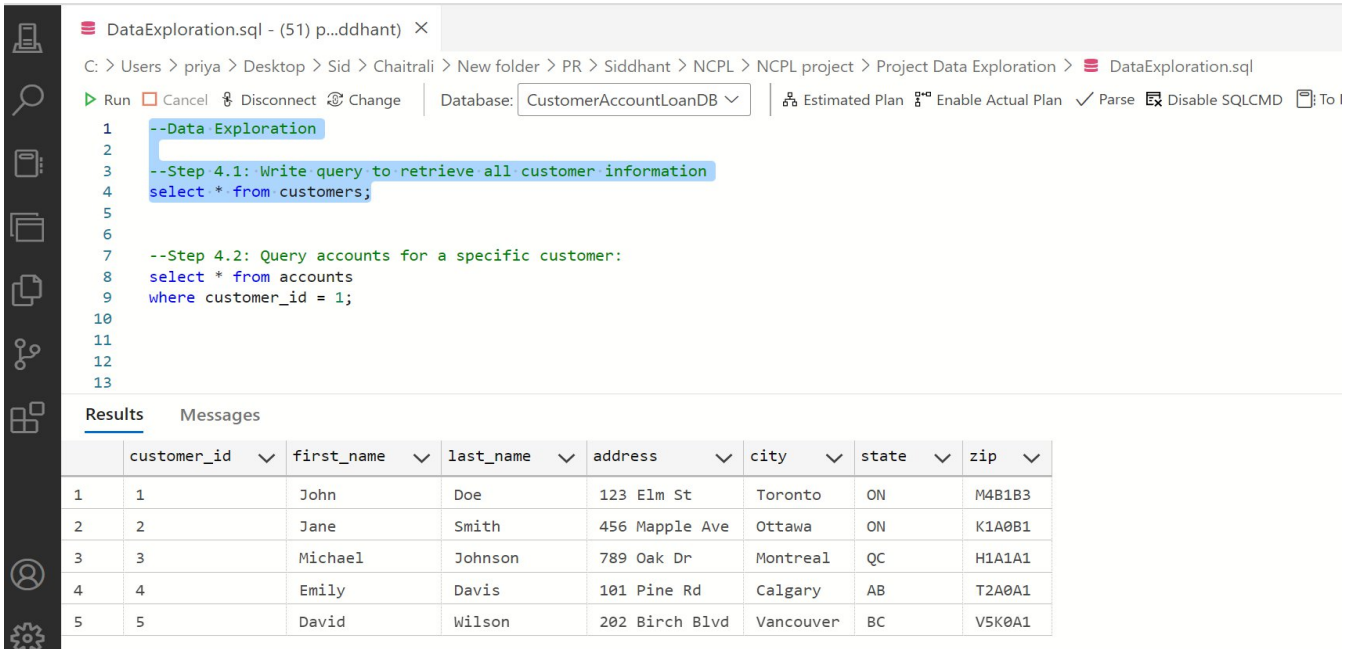
Data Exploration

4.1: Write query to retrieve all customer information:

```
select * from customers;
```

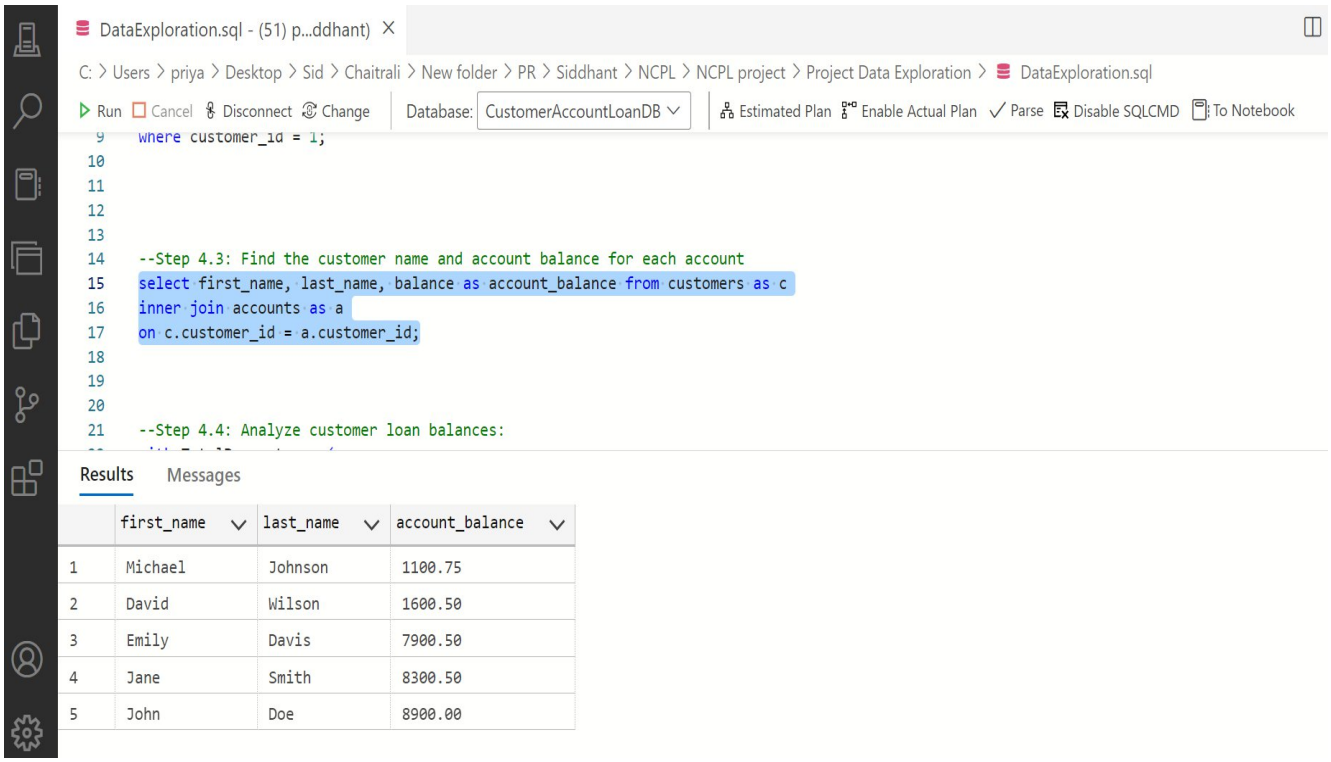


4.2: Query accounts for a specific customer:

```
select * from accounts
where customer_id = 1;
```

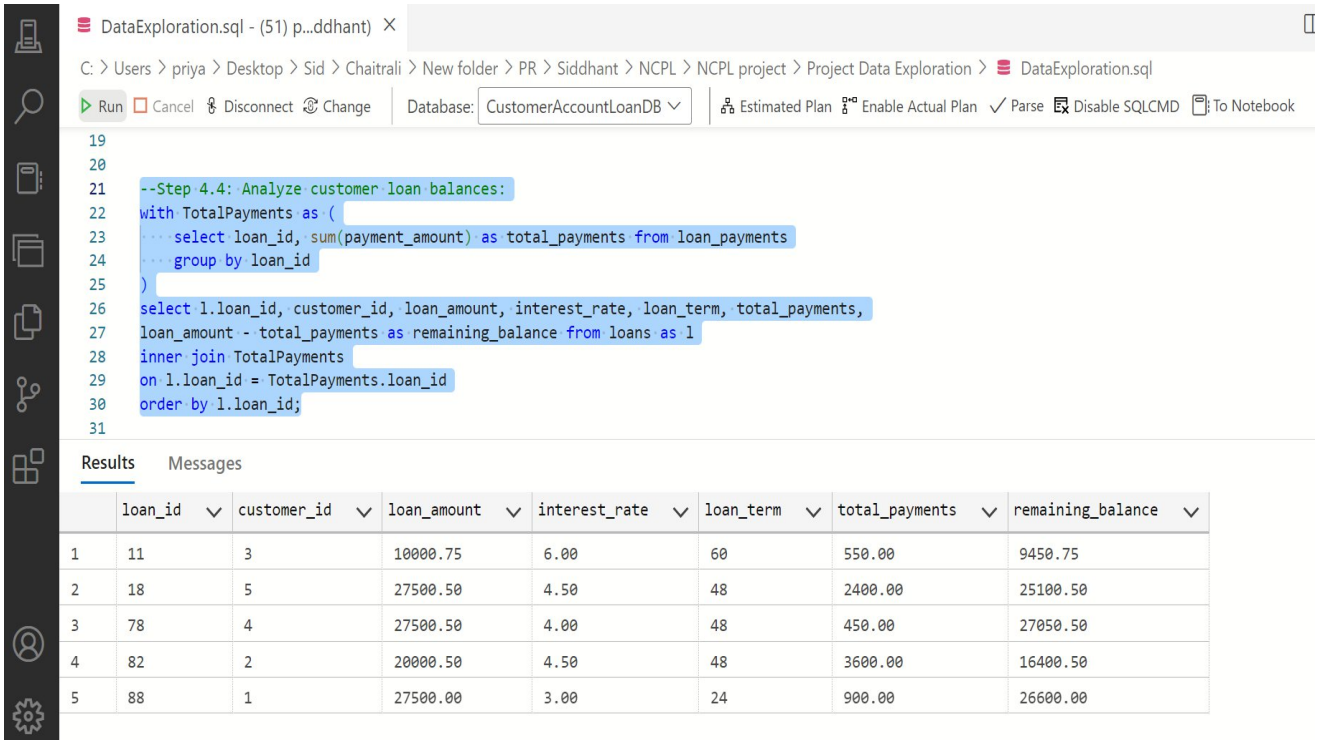
4.3: Find the customer name and account balance for each account:

```
select first_name, last_name, balance as account_balance from customers as c
inner join accounts as a
on c.customer_id = a.customer_id;
```



4.4: Analyze customer loan balances:

```
with TotalPayments as (
   select loan_id, sum(payment_amount) as total_payments from loan_payments
   group by loan_id
)
select l.loan_id, customer_id, loan_amount, interest_rate, loan_term, total_payments,
loan_amount - total_payments as remaining_balance from loans as l
inner join TotalPayments
on l.loan_id = TotalPayments.loan_id
order by l.loan_id;
```



	loan_id	customer_id	loan_amount	interest_rate	loan_term	total_payments	remaining_balance
1	11	3	10000.75	6.00	60	550.00	9450.75
2	18	5	27500.50	4.50	48	2400.00	25100.50
3	78	4	27500.50	4.00	48	450.00	27050.50
4	82	2	20000.50	4.50	48	3600.00	16400.50
5	88	1	27500.00	3.00	24	900.00	26600.00

4.5: List all customers who have made a transaction in the 2024-03

```
select c.customer_id, c.first_name, c.last_name from customers as c
inner join accounts as a
on c.customer_id = a.customer_id
inner join transactions as t
on a.account_id = t.account_id
where year(t.transaction_date)= 2024
and month(t.transaction_date)= 3;
```