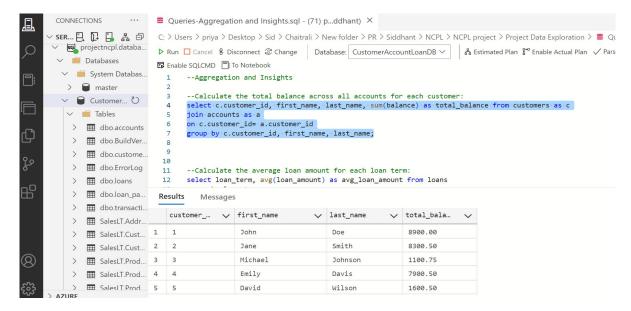
## **Aggregation and Insights**

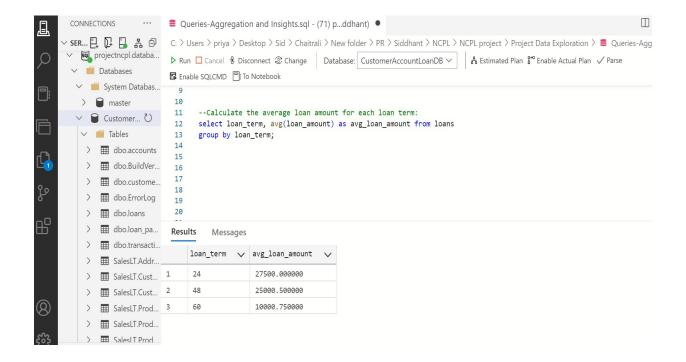
1. Calculate the total balance across all accounts for each customer:

select c.customer\_id, first\_name, last\_name, sum(balance) as total\_balance from customers as c join accounts as a on c.customer\_id= a.customer\_id group by c.customer\_id, first\_name, last\_name;



2. Calculate the average loan amount for each loan term:

select loan\_term, avg(loan\_amount) as avg\_loan\_amount from loans group by loan\_term;



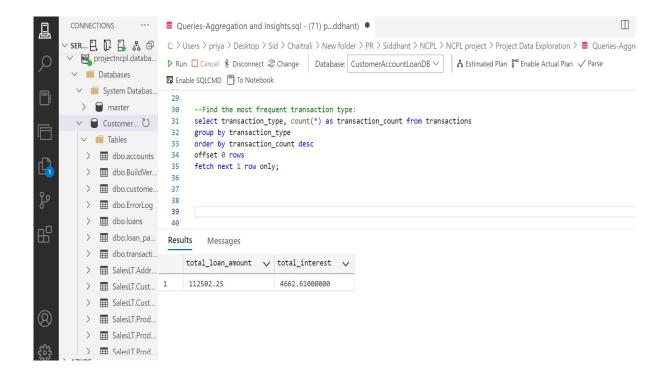
3. Find the total loan amount and interest across all loans:

select sum(loan\_amount) as total\_loan\_amount, sum(loan\_amount \* (interest\_rate/100)) as total\_interest from loans;



4. Find the most frequent transaction type:

select transaction\_type, count(\*) as transaction\_count from transactions group by transaction\_type order by transaction\_count desc offset 0 rows fetch next 1 row only;



5. Analyze transactions by account and transaction type:

select a.account\_id, transaction\_type, sum(transaction\_amount) as total\_amount from accounts as a
inner join transactions as t
on a.account\_id = t.account\_id
group by a.account\_id, transaction\_type;

