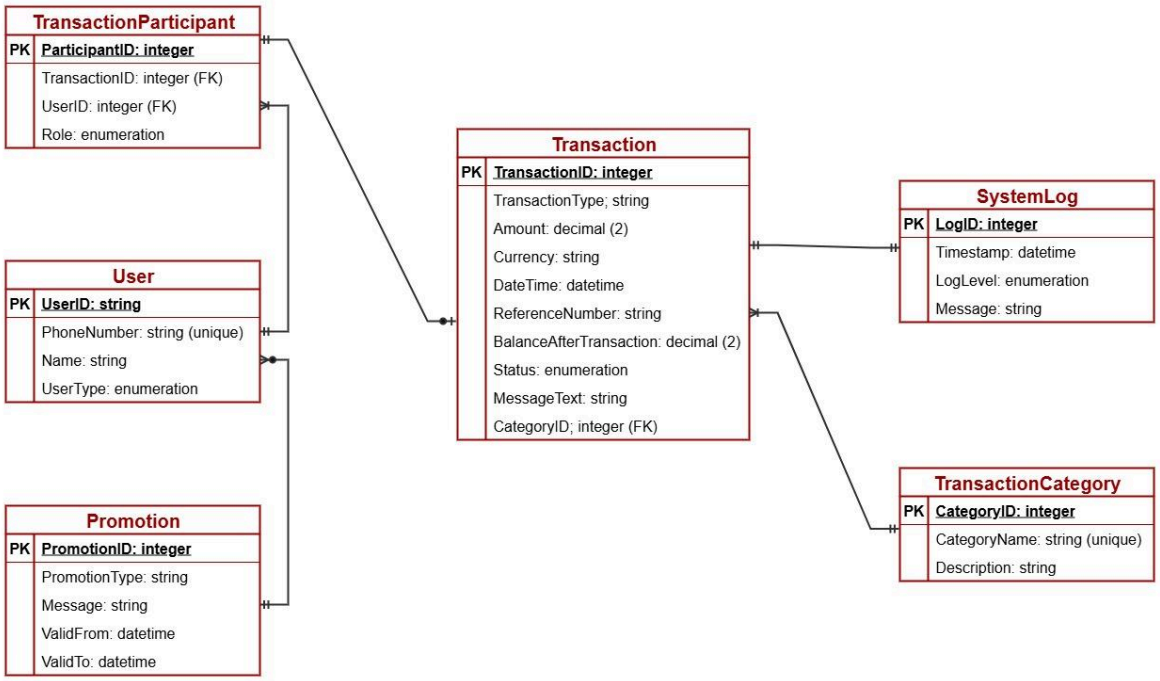
MoMo (Mobile Money) Enterprise ERD

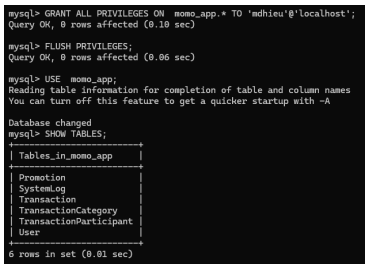
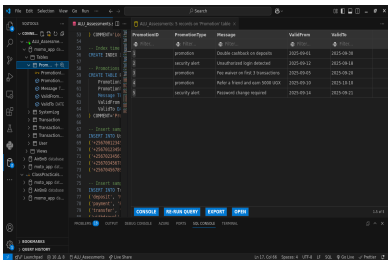
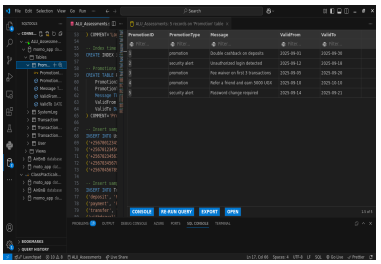
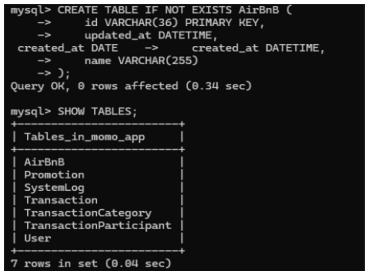
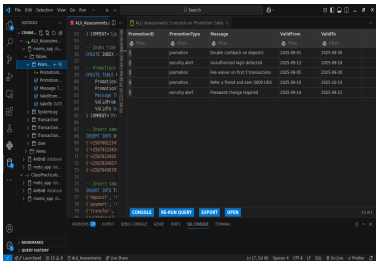
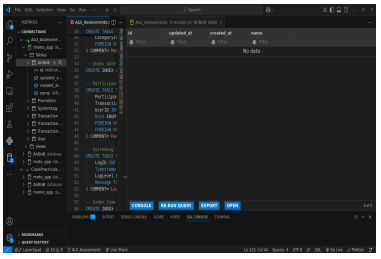
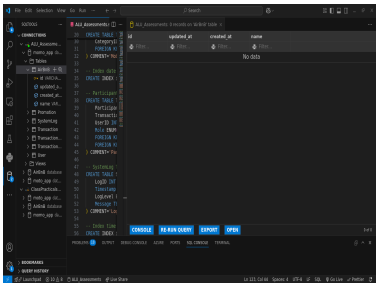
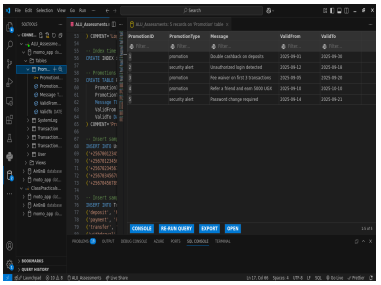
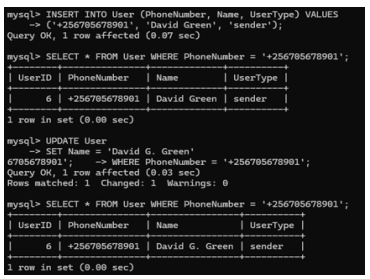
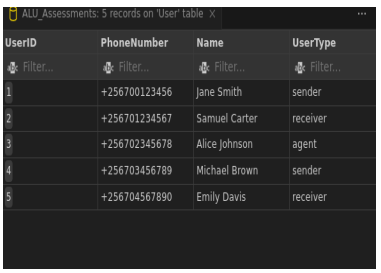
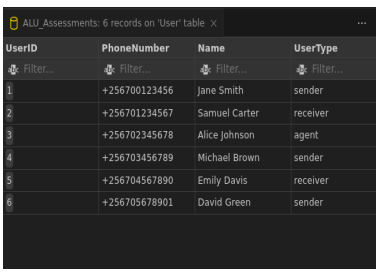
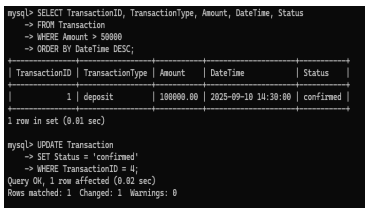
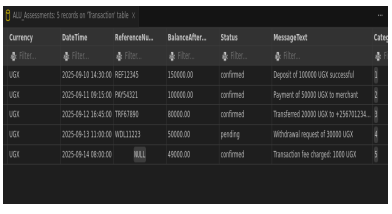
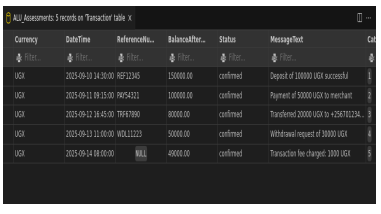


This ERD illustrates the intricate connections between key components necessary for a mobile money system's functionality:

- The 'Transaction' entity retains crucial attributes such as TransactionType, Amount, currency, and status for comprehensive tracking of financial operations.
- The 'TransactionParticipant' entity links each transaction to its users while specifying each participant's role in the transaction, enhancing accountability and enabling detailed transaction review.
- The 'User' entity differentiates and manages users effectively based on identification details and user type (sender, receiver, agent).
- The 'SystemLog' entity maintains system integrity, logging transactions for in-depth auditing, real-time monitoring, and troubleshooting.
- The 'TransactionCategory' entity facilitates categorization, enabling transactions to be organized into coherent groups for efficient reporting and analysis.
- The 'Promotion' entity handles promotions (e.g., airtime top-ups), fostering user engagement through targeted offers based on user-specific criteria.

The relationships between these entities form a robust structure that supports scalability, ensuring the enterprise can expand without sacrificing control or efficiency. These design

decisions ensure the system remains reliable and flexible, meeting both immediate and future needs of mobile money operations by providing a solid foundation for transaction management, user interaction, and system integrity.

Below are examples of the database implementation using CRUD operations:

CLI VIEW	GUI VIEW BEFORE CRUD	GUI VIEW AFTER CRUD