**Scenario 3: Enforce Business Rules on Deposits and Withdrawals**

Tables Used

* Accounts (to check balance)
* Transactions (main table)

Initial Input Data

Accounts Table:

|  |  |
| --- | --- |
| **AccountID** | **Balance** |
| 101 | 1000 |
| 102 | 500 |

Transactions Table (Before Insert):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TransactionID** | **AccountID** | **Amount** | **Type** | **TxnDate** |
| 1 | 101 | 500 | Deposit | 31-JUL-25 |

Operation 1: Valid Deposit

INSERT INTO Transactions(AccountID, Amount, Type)

VALUES (101, 200, 'Deposit');

Output:-

Transactions Table After Valid Insert:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TransactionID** | **AccountID** | **Amount** | **Type** | **TxnDate** |
| 1 | 101 | 500 | Deposit | 31-JUL-25 |
| 2 | 101 | 200 | Deposit | 31-JUL-25 |

Operation 2: Invalid Deposit (Negative Amount)

INSERT INTO Transactions(AccountID, Amount, Type)

VALUES (101, -50, 'Deposit');

Output:-

ORA-20010: Deposit amount must be positive

Operation 3: Invalid Withdrawal (Exceeds Balance)

INSERT INTO Transactions(AccountID, Amount, Type)

VALUES (102, 1000, 'Withdrawal');

Output:

ORA-20011: Insufficient balance for withdrawal

Final Output is:-

Transactions Table (Only Valid Transactions):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TransactionID** | **AccountID** | **Amount** | **Type** | **TxnDate** |
| 1 | 101 | 500 | Deposit | 31-JUL-25 |
| 2 | 101 | 200 | Deposit | 31-JUL-25 |

AuditLog Table:

|  |  |  |  |
| --- | --- | --- | --- |
| **LogID** | **TransactionID** | **LogMessage** | **LogTime** |
| 1 | 1 | Transaction of 500 for Account 101 | 31-JUL-25 |
| 2 | 2 | Transaction of 200 for Account 101 | 31-JUL-25 |