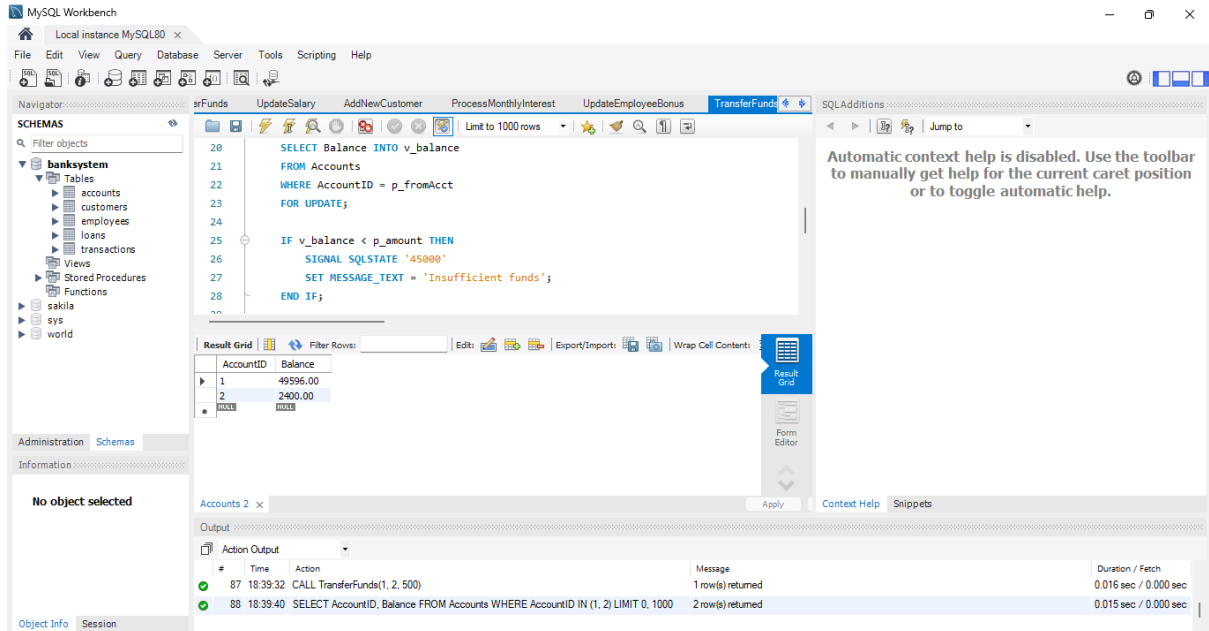


Exercise 3: Stored Procedures

Output:

Scenario 3:

Transfer Funds:



The screenshot displays the MySQL Workbench interface for a local instance of MySQL 8.0. The 'Schemas' pane on the left shows the 'banksystem' database with various tables and views. The central SQL editor contains the code for the 'TransferFunds' stored procedure, which selects the balance into a variable, checks if it is less than the amount to be transferred, and signals an error if insufficient funds are available. The 'Result Grid' shows the current state of the 'Accounts' table with two rows: AccountID 1 with a balance of 49595.00 and AccountID 2 with a balance of 2400.00. The 'Output' pane at the bottom shows the execution log, indicating that the procedure was called successfully and returned 2 rows.

```
20 SELECT Balance INTO v_balance
21 FROM Accounts
22 WHERE AccountID = p_fromAcct
23 FOR UPDATE;
24
25 IF v_balance < p_amount THEN
26     SIGNAL SQLSTATE '45000'
27     SET MESSAGE_TEXT = 'Insufficient funds';
28 END IF;
```

AccountID	Balance
1	49595.00
2	2400.00

Output:

#	Time	Action	Message	Duration / Fetch
87	18:39:32	CALL TransferFunds(1, 2, 500)	1 row(s) returned	0.016 sec / 0.000 sec
88	18:39:40	SELECT AccountID, Balance FROM Accounts WHERE AccountID IN (1, 2) LIMIT 0, 1000	2 row(s) returned	0.015 sec / 0.000 sec