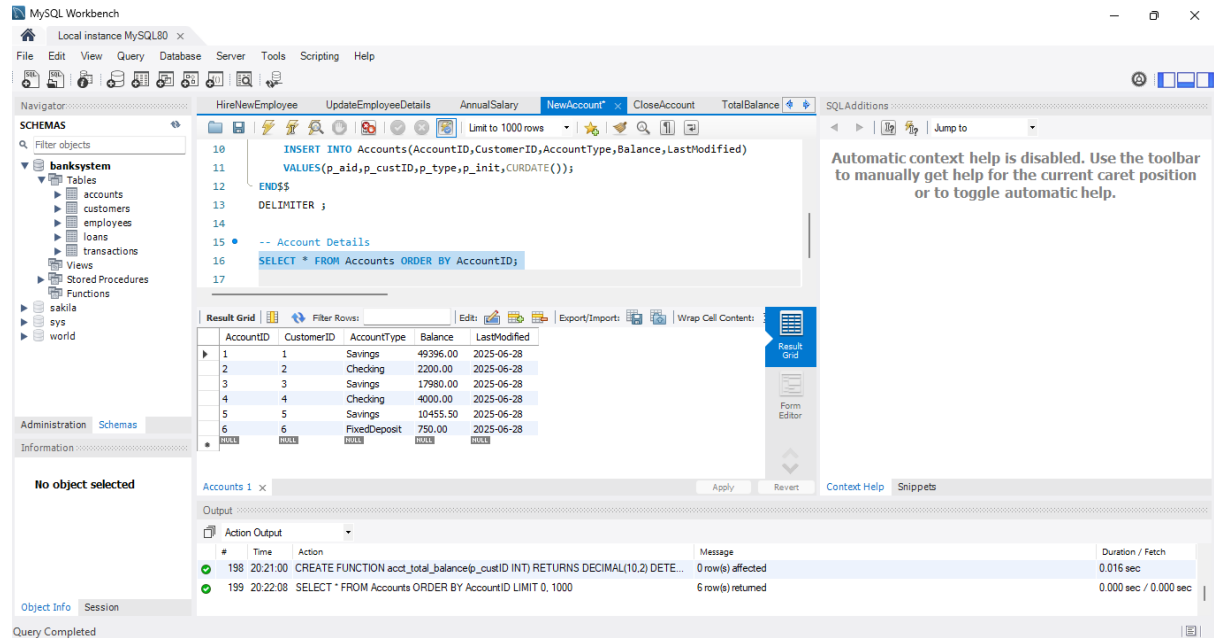


Exercise 7: Packages

Output:

Scenario 3:

Account Detail:



MySQL Workbench interface showing the execution of a package named 'NewAccount'. The package contains the following SQL statements:

```
10 INSERT INTO Accounts(AccountID,CustomerID,AccountType,Balance,LastModified)
11 VALUES(p_acid,p_custID,p_type,p_init,CURDATE());
12 END$$
13 DELIMITER ;
14
15 -- Account Details
16 SELECT * FROM Accounts ORDER BY AccountID;
```

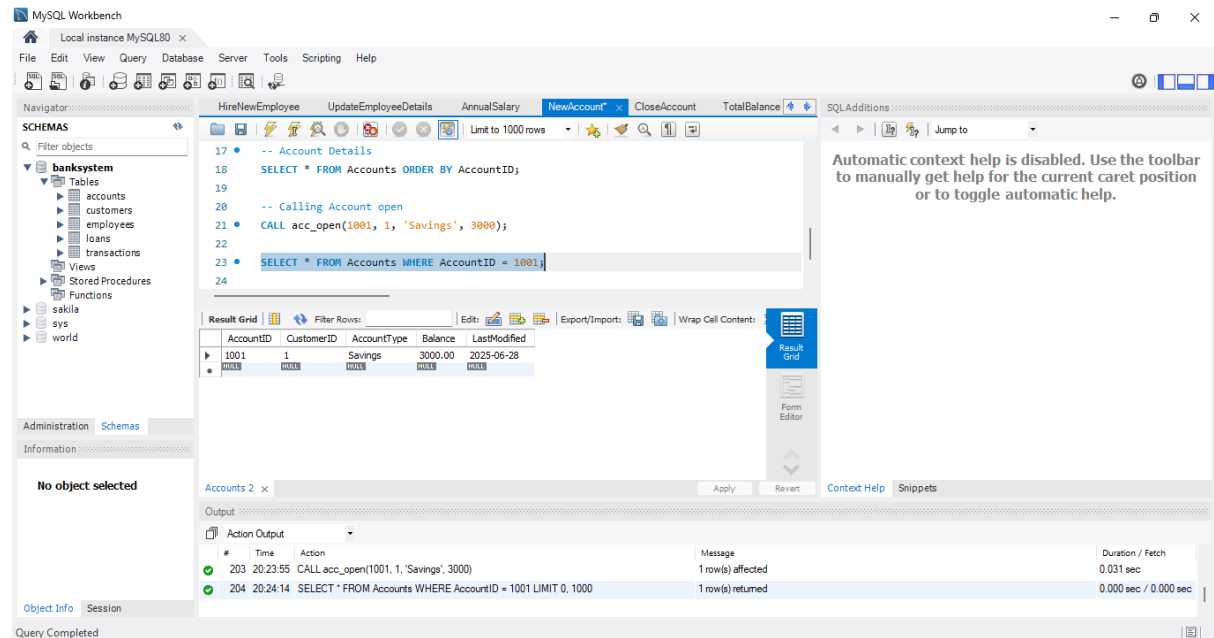
The result grid displays the following data:

AccountID	CustomerID	AccountType	Balance	LastModified
1	1	Savings	49396.00	2025-06-28
2	2	Checking	2200.00	2025-06-28
3	3	Savings	17980.00	2025-06-28
4	4	Checking	4000.00	2025-06-28
5	5	Savings	10455.50	2025-06-28
6	6	FixedDeposit	750.00	2025-06-28

The output pane shows the execution of the package, including the creation of a function and the execution of the SELECT statement.

#	Time	Action	Message	Duration / Fetch
198	20:21:00	CREATE FUNCTION acct_total_balance(p_custID INT) RETURNS DECIMAL(10,2) DETERMINISTIC	0 row(s) affected	0.016 sec
199	20:22:08	SELECT * FROM Accounts ORDER BY AccountID LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

New Account Open:



MySQL Workbench interface showing the execution of a package named 'NewAccount'. The package contains the following SQL statements:

```
17 -- Account Details
18 SELECT * FROM Accounts ORDER BY AccountID;
19
20 -- Calling Account open
21 CALL acc_open(1001, 1, 'Savings', 3000);
22
23 SELECT * FROM Accounts WHERE AccountID = 1001;
```

The result grid displays the following data:

AccountID	CustomerID	AccountType	Balance	LastModified
1001	1	Savings	3000.00	2025-06-28

The output pane shows the execution of the package, including the execution of the CALL statement and the SELECT statement.

#	Time	Action	Message	Duration / Fetch
203	20:23:55	CALL acc_open(1001, 1, 'Savings', 3000)	1 row(s) affected	0.031 sec
204	20:24:14	SELECT * FROM Accounts WHERE AccountID = 1001 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Closed Account:

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Filter objects

banksystem

Tables

accounts

customers

employees

loans

transactions

Views

Stored Procedures

Functions

sakila

sys

world

Administration Schemas

Information

No object selected

Object Info Session

Query Completed

HireNewEmployee UpdateEmployeeDetails AnnualSalary NewAccount CloseAccount* TotalBalance

Limit to 1000 rows

11 DELIMITER ;

12

13

14 -- Closing an Account

15 CALL acc_close(1001);

16

17 SELECT * FROM Accounts WHERE AccountID = 1001;

18

Result Grid

AccountID	CustomerID	AccountType	Balance	LastModified
1001	1001	1001	1001	1001

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
208	20:26:39	CALL acc_close(1001)	1 row(s) affected	0.031 sec
209	20:26:54	SELECT * FROM Accounts WHERE AccountID = 1001 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Account Balance:

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Filter objects

banksystem

Tables

accounts

customers

employees

loans

transactions

Views

Stored Procedures

Functions

sakila

sys

world

Administration Schemas

Information

No object selected

Object Info Session

Query Completed

HireNewEmployee UpdateEmployeeDetails AnnualSalary NewAccount CloseAccount TotalBalance*

Limit to 1000 rows

15 RETURN IFNULL(total, 0);

16 END\$\$

17

18 DELIMITER ;

19

20 -- Verifying Account Balance

21 SELECT acc_total_balance(3) AS TotalBalance;

22

Result Grid

TotalBalance
17980.00

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Output

Result 1

Read Only

Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
212	20:28:30	CREATE FUNCTION acc_total_balance(p_customerID INT) RETURNS DECIMAL(10,2) DE...	0 row(s) affected	0.000 sec
213	20:28:34	SELECT acc_total_balance(3) AS TotalBalance LIMIT 0, 1000	1 row(s) returned	0.015 sec / 0.000 sec