

Exercise 7: Packages

Output:

Scenario 1:

New Customer added:

The screenshot shows the MySQL Workbench interface with the 'NewCustomer' package selected in the 'Items' pane. The package contains a stored procedure 'cust_add' and an 'INSERT INTO' statement. The 'Result Grid' shows the execution results for the 'Customers' table.

SQL Editor:

```
3 CREATE PROCEDURE cust_add(  
4     IN p_id INT,  
5     IN p_name VARCHAR(100),  
6     IN p_dob DATE,  
7     IN p_bal DECIMAL(10,2)  
8 )  
9 BEGIN  
10     INSERT INTO Customers(CustomerID,Name,DOB,Balance,LastModified)  
--
```

Result Grid:

CustomerID	Name	DOB	Balance	LastModified	IsVIP
101	Kumar Raj	1982-03-10	7200.00	2025-06-28	0

Action Output:

#	Time	Action	Message	Duration / Fetch
176	19:43:25	CALL cust_add(101, 'Kumar Raj', '1982-03-10', 7200)	1 row(s) affected	0.015 sec
177	19:44:31	SELECT * FROM Customers WHERE CustomerID = 101 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Update Customer detail:

The screenshot shows the MySQL Workbench interface with the 'UpdateCustomerDetail' package selected in the 'Items' pane. The package contains a stored procedure 'cust_update' and a 'SELECT' statement. The 'Result Grid' shows the execution results for the 'Customers' table.

SQL Editor:

```
14 END$$  
15 DELIMITER ;  
16  
17 -- Update the Customer detail  
18 CALL cust_update(101, 'Kumar R', '1982-05-15');  
19  
20 -- verifying  
21 SELECT * FROM Customers WHERE CustomerID = 101;  
--
```

Result Grid:

CustomerID	Name	DOB	Balance	LastModified	IsVIP
101	Kumar R	1982-05-15	7200.00	2025-06-28	0

Action Output:

#	Time	Action	Message	Duration / Fetch
178	19:45:51	CALL cust_update(101, 'Kumar R', '1982-05-15')	1 row(s) affected	0.016 sec
179	19:46:09	SELECT * FROM Customers WHERE CustomerID = 101 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Get Current Balance:

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

SCHEMAS

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Administration Schemas

Information

No object selected

Object Info Session

ApplyAnnualFee UpdateLoanInterestRate NewCustomer UpdateCustomerDetail **GetCurrentBalance***

Limit to 1000 rows

```
7 DECLARE v_bal DECIMAL(10,2);
8 SELECT Balance INTO v_bal FROM Customers WHERE CustomerID = p_id;
9 RETURN v_bal;
10 END$$
11 DELIMITER ;
12
13 -- get Customer Current balance
14 SELECT cust_balance(101) AS Balance;
```

Result Grid

Balance
7200.00

SQLAdditions

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

Result 1 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 179	19:46:09	SELECT * FROM Customers WHERE CustomerID = 101 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
✓ 180	19:49:17	SELECT cust_balance(101) AS Balance LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec