

## Exercise 2: Error Handling

### Output:

### Scenario 3:

### Checking a duplicate id:

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following code:

```
DELIMITER ;
-- Fresh ID (works)
CALL AddNewCustomer(20,'Neha Sharma','1995-03-12',2500);
-- Duplicate ID (logs error, no insert)
CALL AddNewCustomer(20,'Duplicate Test','2000-01-01',100);
SELECT CustomerID, Name FROM Customers WHERE CustomerID = 20;
```

The SQL editor shows the execution of the code. The output pane displays the results of the queries:

#	Time	Action	Message	Duration / Fetch
67	18:20:44	SELECT * FROM AuditLog ORDER BY LogID DESC LIMIT 5	5 row(s) returned	0.000 sec / 0.000 sec
68	18:22:28	SELECT CustomerID, Name FROM Customers WHERE CustomerID = 20 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

The result grid shows the output of the last query:

CustomerID	Name
20	Neha Sharma

### Log ID data:

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following code:

```
DROP PROCEDURE IF EXISTS AddNewCustomer;
DELIMITER $$
CREATE PROCEDURE AddNewCustomer
(
    IN p_customerID INT,
    IN p_name VARCHAR(100),
    IN p_dob DATE,
    IN p_balance DECIMAL(10,2) )
BEGIN
    -- AuditLog table: duplicate ID, error du...
```

The SQL editor shows the execution of the code. The output pane displays the results of the queries:

#	Time	Action	Message	Duration / Fetch
68	18:22:28	SELECT CustomerID, Name FROM Customers WHERE CustomerID = 20 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
69	18:23:17	SELECT * FROM AuditLog ORDER BY LogID DESC LIMIT 5	5 row(s) returned	0.000 sec / 0.000 sec

The result grid shows the output of the last query:

LogID	LogDate	Severity	Location	Message
7	2025-06-28 18:19:44	INFO	AddNewCustomer	Customer 20 inserted OK
6	2025-06-28 18:19:44	ERROR	AddNewCustomer	Duplicate CustomerID 20
5	2025-06-28 18:19:39	INFO	AddNewCustomer	Customer 20 inserted OK
4	2025-06-28 18:16:53	ERROR	UpdateSalary	FAILED salary update for EmpID 999 - error du...
3	2025-06-28 18:16:48	INFO	UpdateSalary	Salary +10.00% for EmpID 1