NONSTOP SQL/MX WITH MYSQL

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FUNCTION OF APPLICATION

1. Create order – customer can create order if they are existing customer
2. Edit order – customer can edit order if order number exist

DATA TABLES

MySQL – Orders table

Database: mybookstore
Table name: Orders

SQL/MX – Customers table

Catalog: Tomcat
Schema: SQLXP
Table name: Customers

```
mysql> select * from orders;
+---------+--------+----------------------------------+---------------------+---------------------+
| OrderId | CustId | OrderDesc                        | created_timestamp   | edited_timestamp    |
+---------+--------+----------------------------------+---------------------+---------------------+
|       2 |      1 | test insert from java app        | 2021-03-05 11:22:39 | NULL                |
|       3 |      1 | update from mysql                | 2021-03-05 13:23:40 | NULL                |
|       4 |      1 | default description              | 2021-03-05 11:40:26 | 2021-03-05 13:28:12 |
|       5 |      1 | hello from app                   | 2021-03-05 11:40:43 | NULL                |
|       6 |      1 | create order with command        | 2021-03-05 11:45:54 | NULL                |
|       7 |      1 | default description              | 2021-03-05 11:48:55 | NULL                |
|       8 |      1 | hello from app with new timestamp| 2021-03-05 11:49:13 | 2021-03-05 13:27:16 |
+---------+--------+----------------------------------+---------------------+---------------------+
```

Data in Table TOMCAT.SQLXP.CUSTOMERS

Data Source Type   Data Source Name

MX Table   TOMCAT.SQLXP.CUSTOMERS   Options

                     Minimum Cache Size   Rows per page   Customization
Go To   200   1 rows in cache.   10   Apply   Clear All

Data | Columns

CUSTID	FIRSTNAME	LASTNAME
1	adminFirst	adminLast

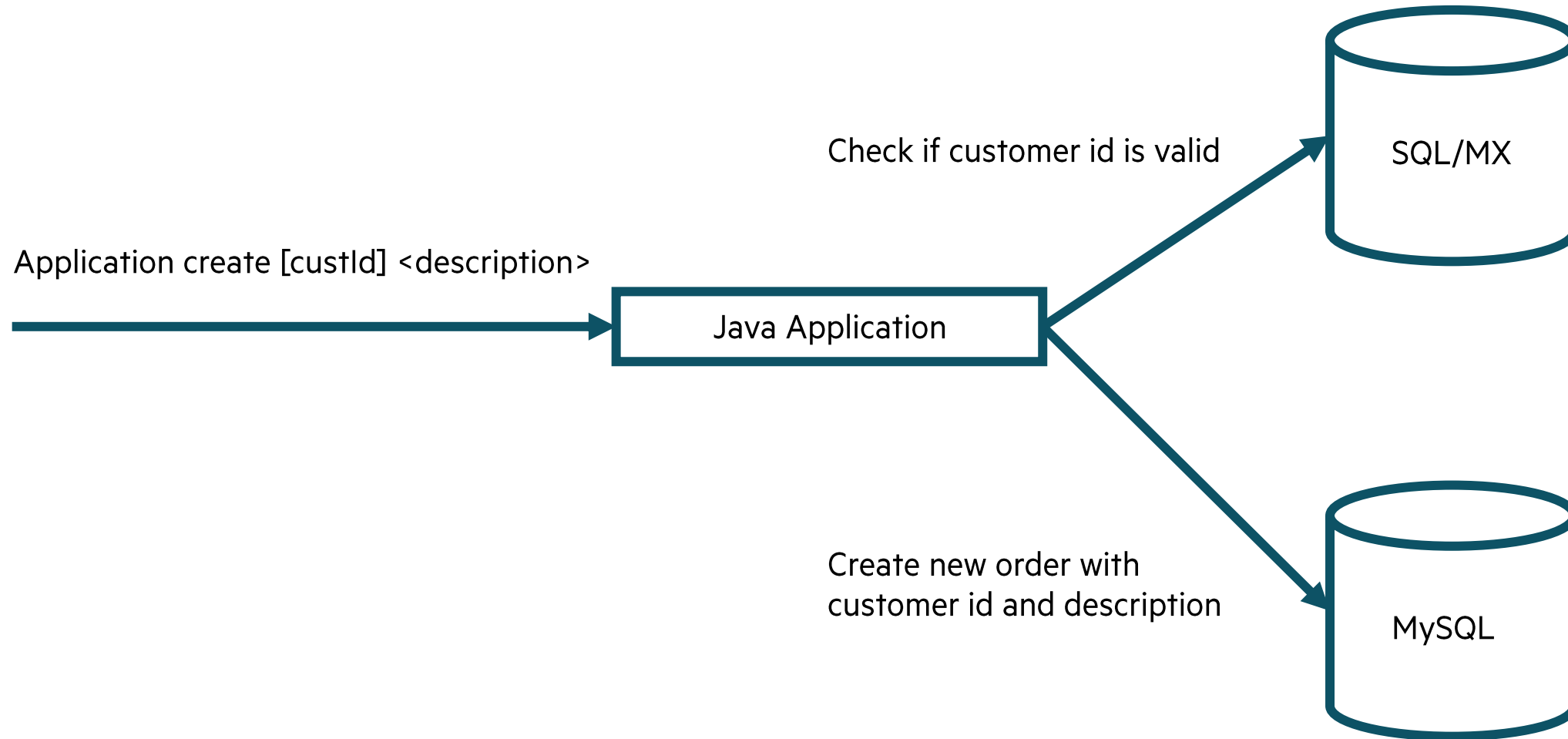# APPLICATION CONFIGURATION

JDBC Drivers (MySQL, SQL/MX)

> java -classpath C:\MySQL\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23**mysql-connector-java-8.0.23.jar**;C:\t1249\lib**t4sqlmx.jar**;.; Application create 1

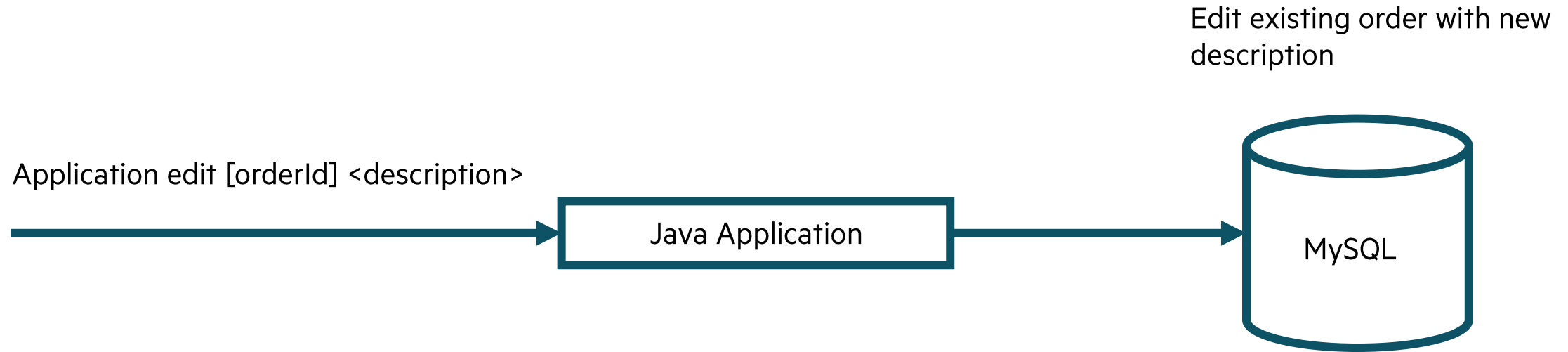## Configuration File (config.properties)

```
J  config.properties
 1    #MySQL properties
 2    mySqlUrl=jdbc:mysql://localhost/
 3    mySQLUser=newuser
 4    mySQLPassword=xxxx
 5    mySQLDatabase=mybookstore
 6
 7    #sqlmx properties
 8    sqlmxUrl=jdbc:t4sqlmx://10.85.235.130:50000/:
 9    sqlmxUser=shanice
10    sqlmxPassword=!2020!
11    sqlmxCatalog=TOMCAT
12    sqlmxSchema=SQLXP
```

CREATE ORDER

Application create [custId] <description>

Java Application

Check if customer id is valid

SQL/MX

Create new order with customer id and description

MySQL

EDIT ORDER

Edit existing order with new description

Application edit [orderId] <description>

Java Application

MySQL

COMMANDS TO TEST WITH APPLICATION

- 1. create, custId
- java -classpath C:\MySQL\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23.jar;C:\t1249\lib\t4sqlmx.jar;.; Application create 1

- 2. create, custId, desc
- java -classpath C:\MySQL\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23.jar;C:\t1249\lib\t4sqlmx.jar;.; Application create 1 "desc"

- 3. edit, orderId
- java -classpath C:\MySQL\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23.jar;C:\t1249\lib\t4sqlmx.jar;.; Application edit 4

- 4. edit, orderId, newDesc
- java -classpath C:\MySQL\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23.jar;C:\t1249\lib\t4sqlmx.jar;.; Application edit 8 "hello from app with new desc"

- Error:
- - invalid order id
- java -classpath C:\MySQL\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23.jar;C:\t1249\lib\t4sqlmx.jar;.; Application edit 99

- - invalid custId
- java -classpath C:\MySQL\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23.jar;C:\t1249\lib\t4sqlmx.jar;.; Application create 3

- - invalid command
- java -classpath C:\MySQL\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23\mysql-connector-java-8.0.23.jar;C:\t1249\lib\t4sqlmx.jar;.; Application