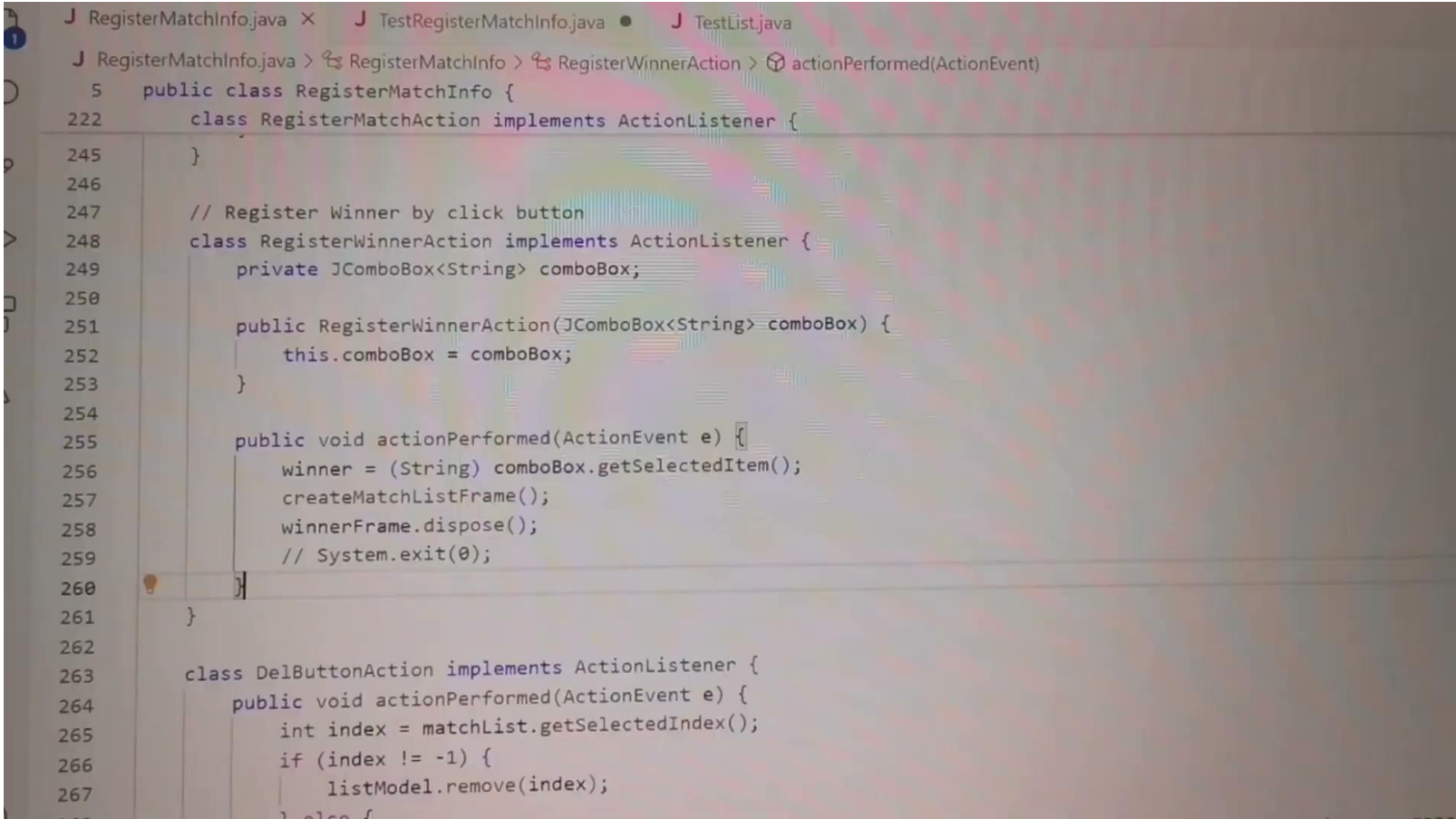
Guide of Our System

how to run “volleyball-match-record-system”

How to Register Information

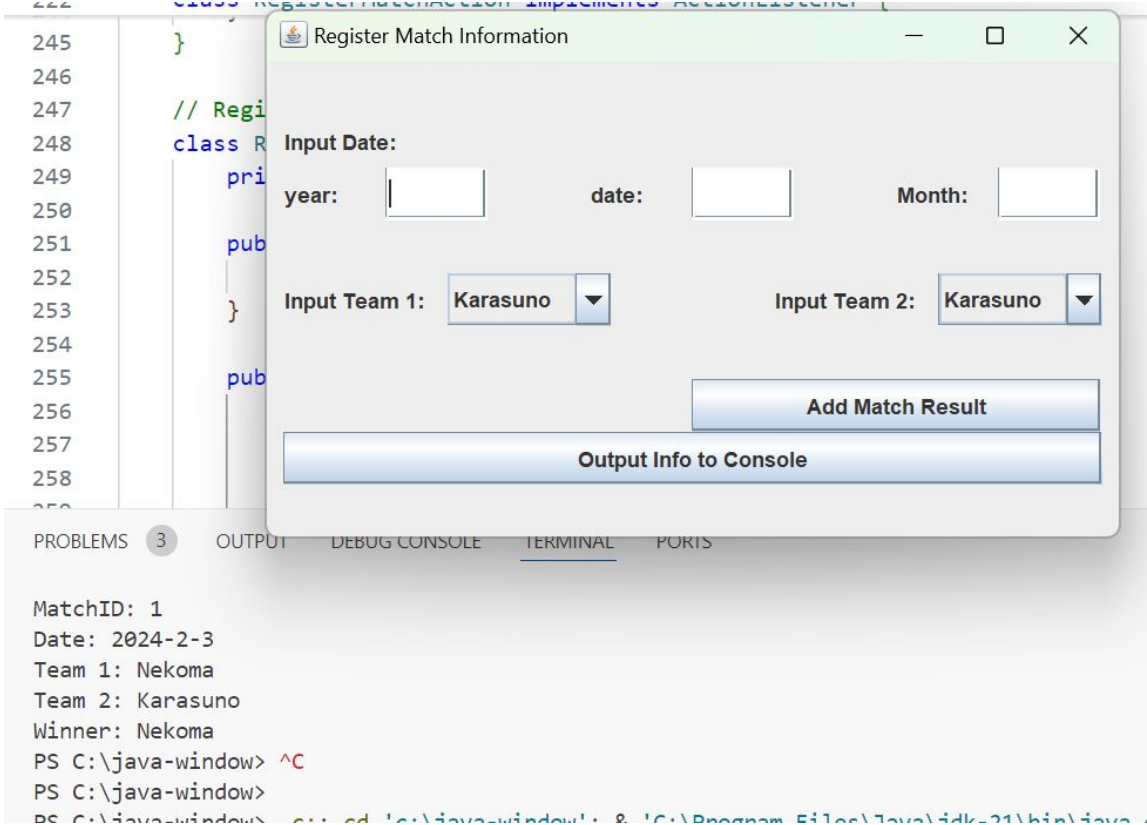
demo

demo


RegisterMatchInfo.java
TestRegisterMatchInfo.java
TestList.java
RegisterMatchInfo.java > RegisterMatchInfo > RegisterWinnerAction > actionPerformed(ActionEvent)
public class RegisterMatchInfo {
class RegisterMatchAction implements ActionListener {
}
// Register Winner by click button
class RegisterWinnerAction implements ActionListener {
private JComboBox<String> comboBox;
public RegisterWinnerAction(JComboBox<String> comboBox) {
this.comboBox = comboBox;
}
public void actionPerformed(ActionEvent e) {
winner = (String) comboBox.getSelectedItem();
createMatchListFrame();
winnerFrame.dispose();
// System.exit(0);
}
}
class DelButtonAction implements ActionListener {
public void actionPerformed(ActionEvent e) {
int index = matchList.getSelectedIndex();
if (index != -1) {
listModel.remove(index);

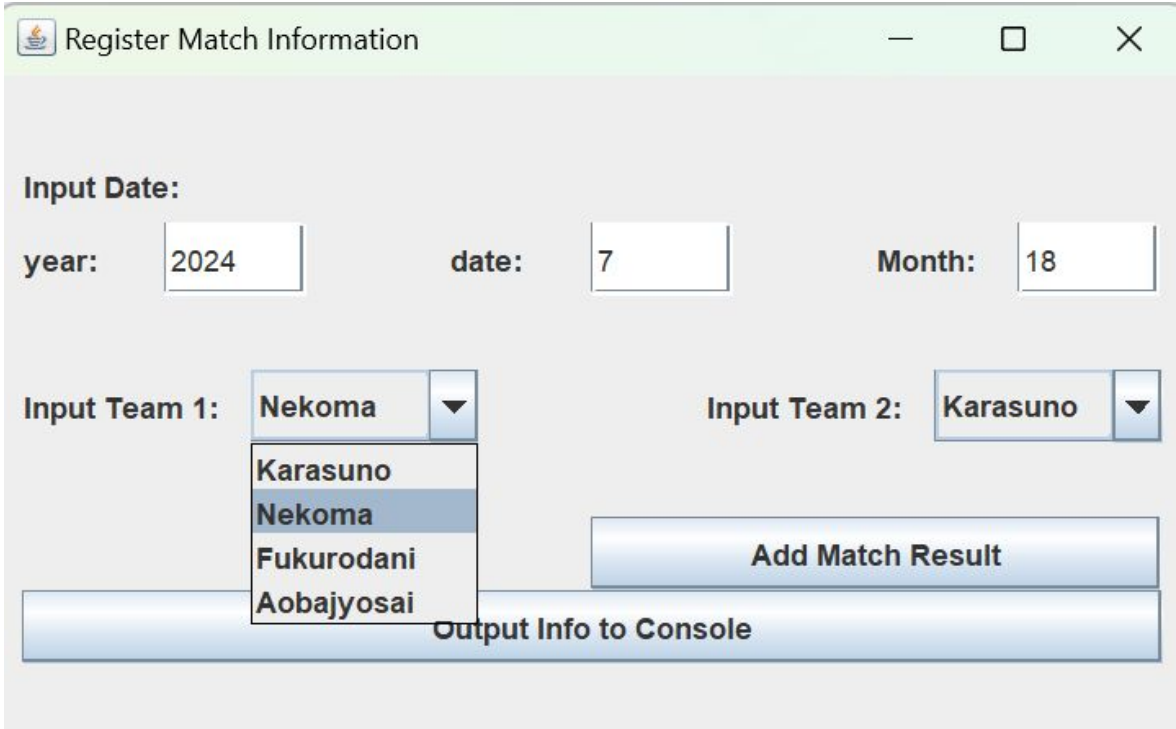
Register Match Information

When you run "RegisterMatchInfo.java", a window like the one on the right will appear.



Step1 : Add Date and Team Information

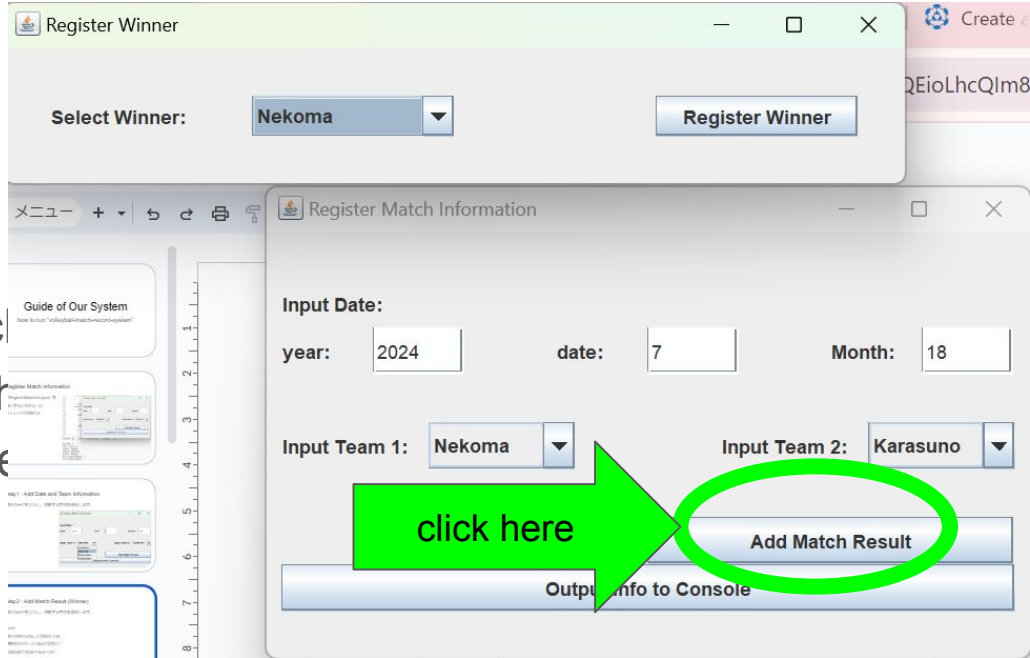
Enter the date of the match and select the competing school.



Step2-1 : Add Match Result

If match already finished, you can register winner team.

Click button “Add Match Result” (green color) then a new window “Register Winner” will appear.

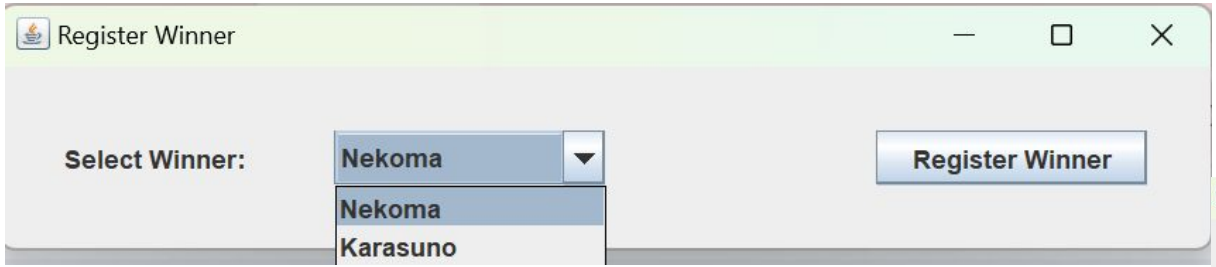


Point :

Registration not allowed until the matc
Register as soon as the competing sch
(Should be able to register even before

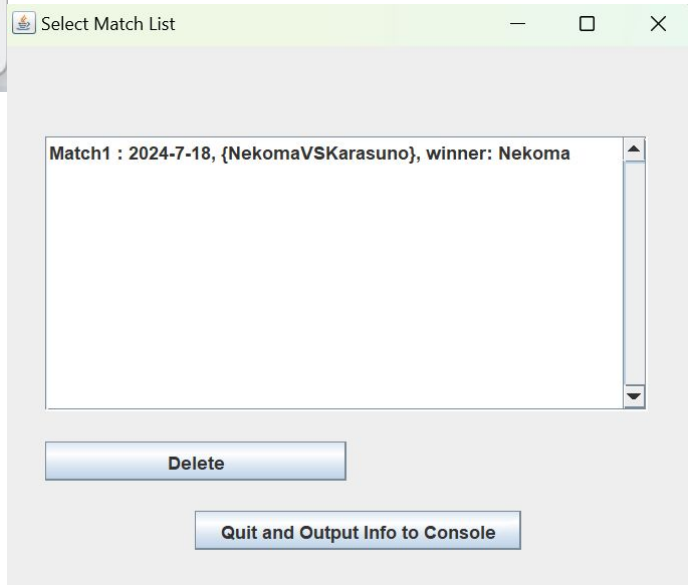
Step2-2 : Add Match Result

Select winner and click button “Register Winner”.



Then new window “Select Match List” will appear.

If you register a wrong information, you can delete it by select line in the field and click delete button.



Step3 : Output information

If you click the button “Quit and Output Info to Console”, you can see the output as below.

```
PS C:\java-window>  c:; cd 'c:\java-window'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Use
rs\lydwo\AppData\Roaming\Code\User\workspaceStorage\f84cd399d19ee08df405d99fb9b2580c\redhat.java\jdt_ws\java-window_983fec43\bin' 'RegisterMatchIn
fo'
MatchID: 1
Date: 2024-7-18
Team 1: Nekoma
Team 2: Karasuno
Winner: Nekoma
```

How to Get Information

Try 1: Get information of Player 1

Command: ./gradlew run --args="GetPlayerInfo 1"

Successful output: You can see a similar output as below

```
PS C:\volleyball-app\multi-storage-transaction-sample> ./gradlew run --args="GetPlayerInfo 1"
Starting a Gradle Daemon, 3 incompatible and 3 stopped Daemons could not be reused, use --status for details

> Task :compileJava
隴ｦ蜻・ [options] 繧ｽ繝ｼ繧ｹ蛟､8縺ｯ蟀・ｺ｢縺輔ｌ縺ｦ縺・ｾ縺吶ょｰ・擂縺ｮ繝ｪ繝ｪ繝ｼ繧ｹ縺ｧ蜑企勁縺輔ｌ繧倶ｺ亥ｮ壹〒縺・
                                                                                    隴ｦ蜻・ [options] 繧ｿ繝ｼ繧ｲ繝・ヨ蛟､8縺ｯ蟀・ｺ｢縺輔ｌ縺
ｦ縺・ｾ縺吶ょｰ・擂縺ｮ繝ｪ繝ｪ繝ｼ繧ｹ縺ｧ蜑企勁縺輔ｌ繧倶ｺ亥ｮ壹〒縺・
                                              隴ｦ蜻・ [options] 蟀・ｺ｢縺輔ｌ縺溘が繝励す繝ｧ繝ｳ縺ｫ髢｢縺吶ｋ隴ｦ蜻翫ｒ陦ｨ遉ｺ縺励↑縺・ｈ縺・↓縺ｙ縺ｫ縺
縺ｯ縲・Xlint:繧ｪ繝励す繝ｧ繝ｳ繧剃ｽｿ逕ｨ縺励※縺吶・
                                     隴ｦ蜻・蛟・

> Task :run
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
{"playerID": 1, "name": "Kageyama Tobio", "team": "Karasuno", "grade": 1, "position": "S",  "status": 27}

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come from your own scripts or plugins.
```

How to run sample app

Step 0 : Download JAVA

Recommend to download Java 8, 11, 17, 21

We use version 21

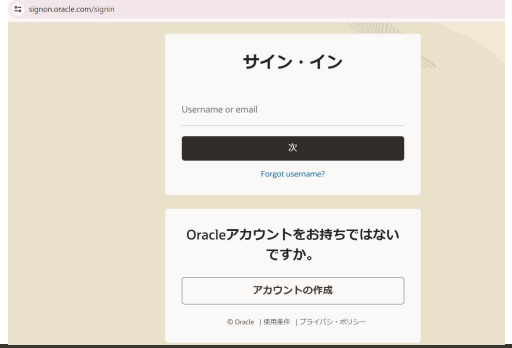
Prerequisites

- One of the following Java Development Kits (JDKs):
  - Oracle JDK LTS version (8, 11, 17 or 21)
  - OpenJDK LTS version (8, 11, 17, or 21) from Eclipse Temurin, Amazon Corretto, or Microsoft
- Docker 20.10 or later with Docker Compose V2 or later

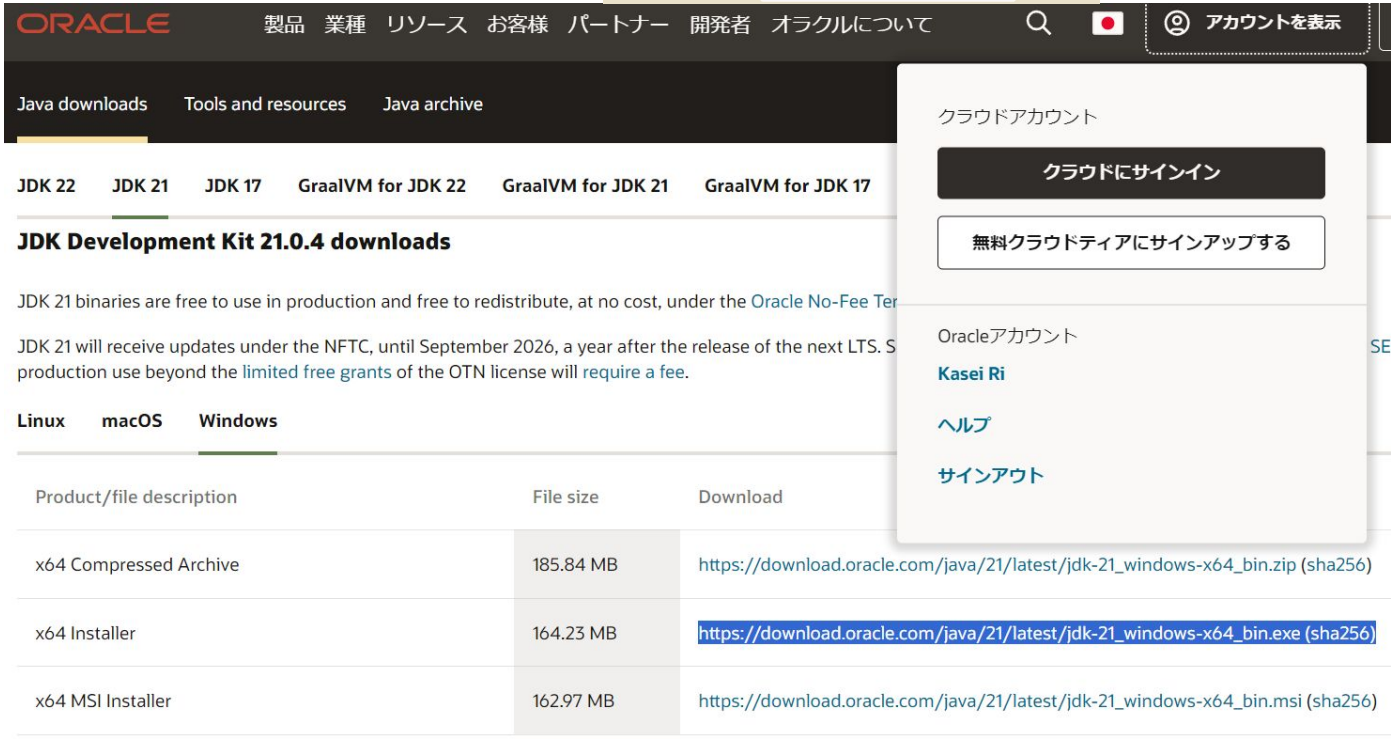
> **NOTE**
>
> We recommend using the LTS versions mentioned above, but other non-LTS versions may work.
>
> In addition, other JDKs should work with ScalarDB, but we haven't tested them.

Step 0: Download Java

You might be required to create oracle account



Step for Windows →



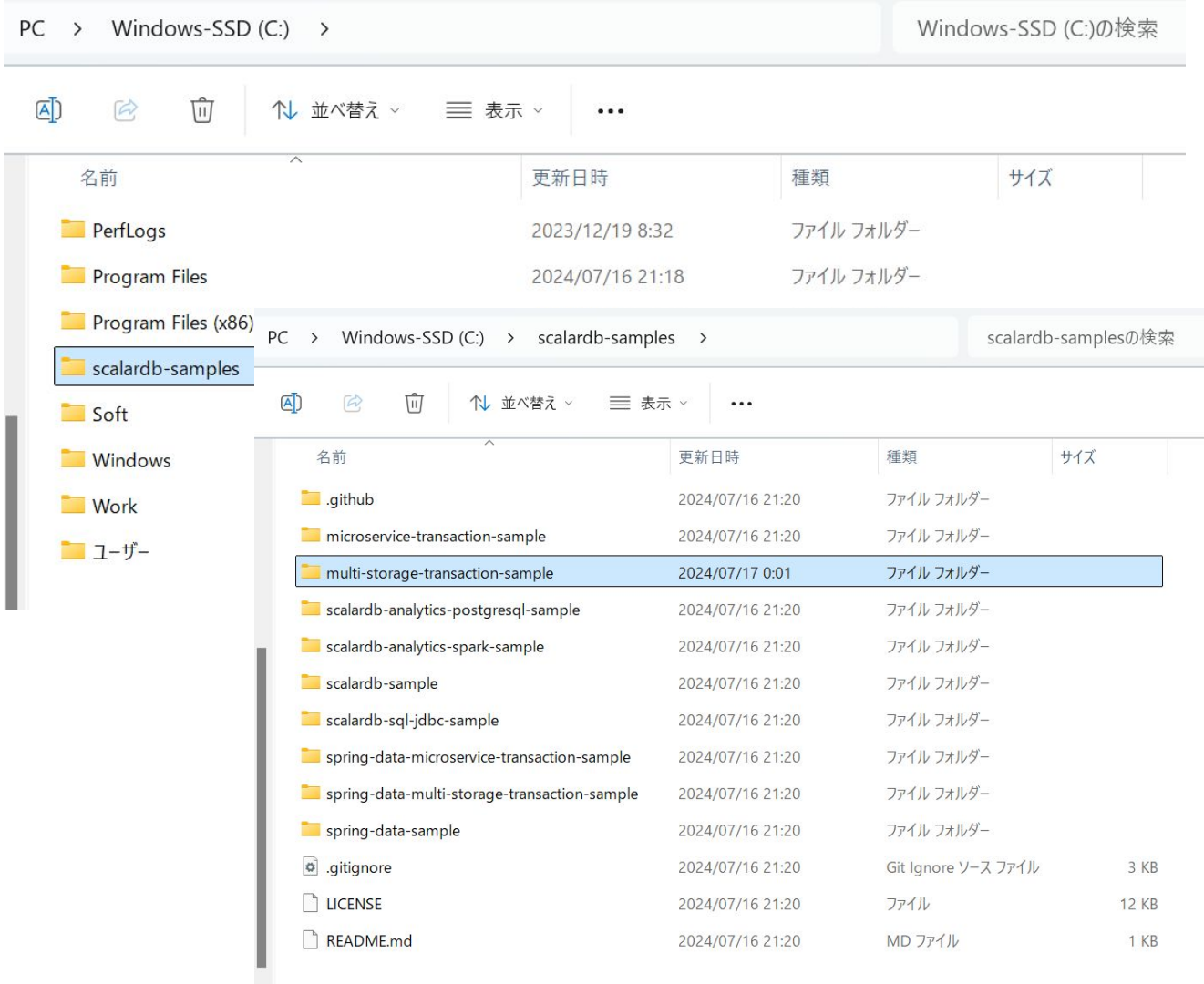
Step 0 : Download schema loader

Schema loader Download

Please select the highlighted section below

Step 1 : Git clone

Clone succesfully



Step 3 : Check and Move schema loader

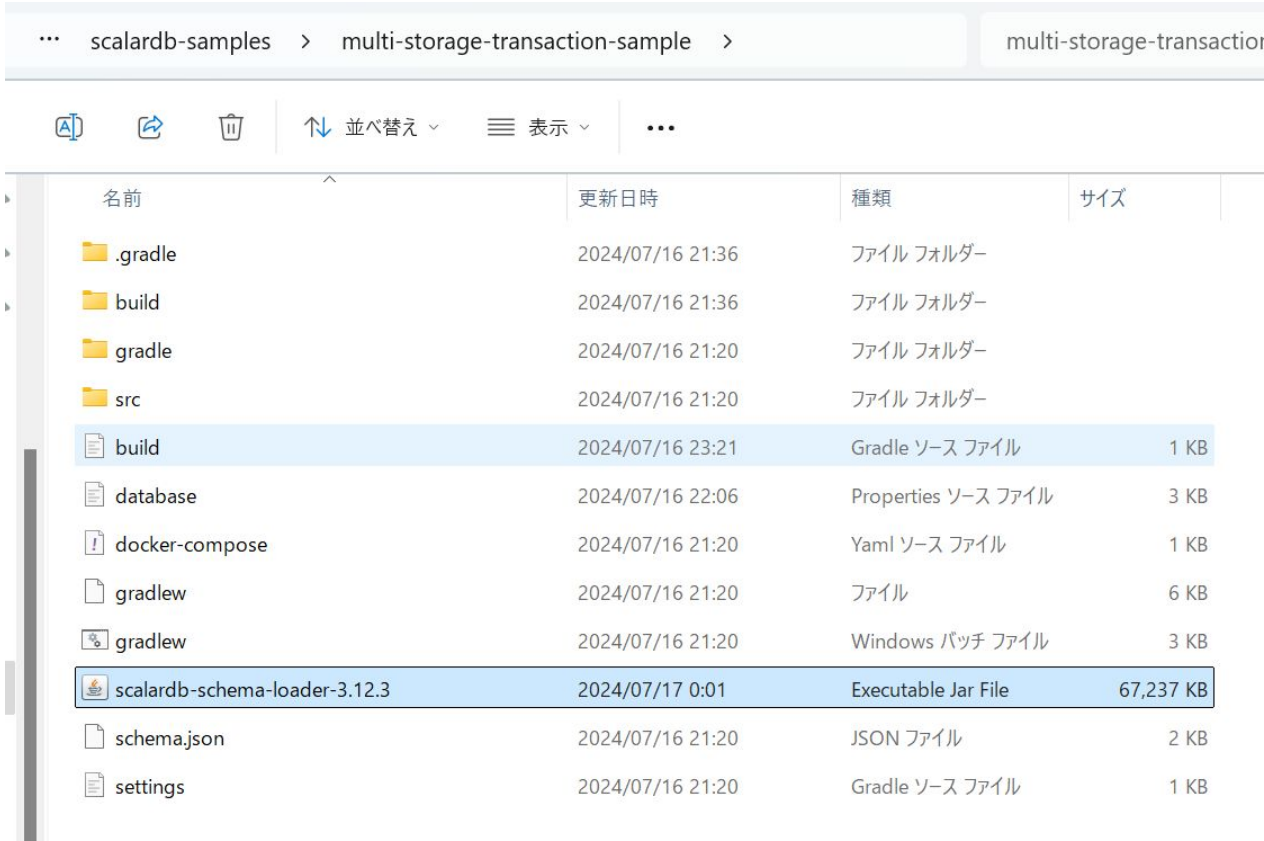
As shown in the figure

on the right

<Check the version>

We use 3.12.3

it will be used at next step

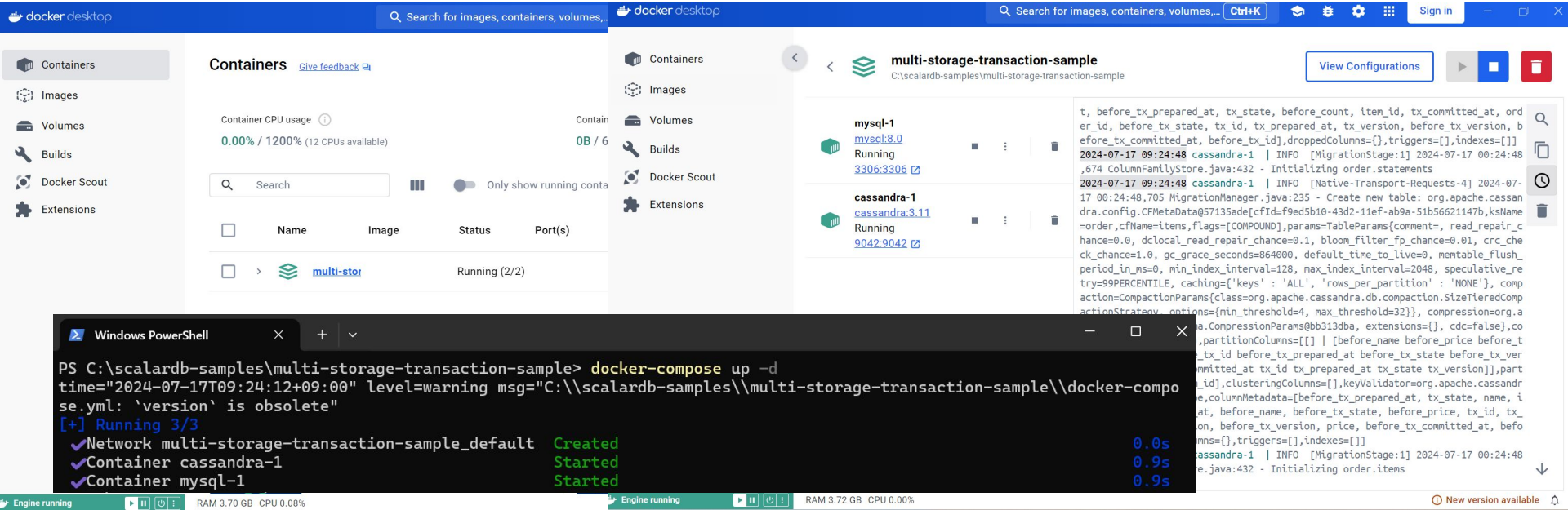


Step 4 : Start cassandra and mysql

Use Docker

Open “Docker Desktop” first 

and input Command: docker-compose up -d

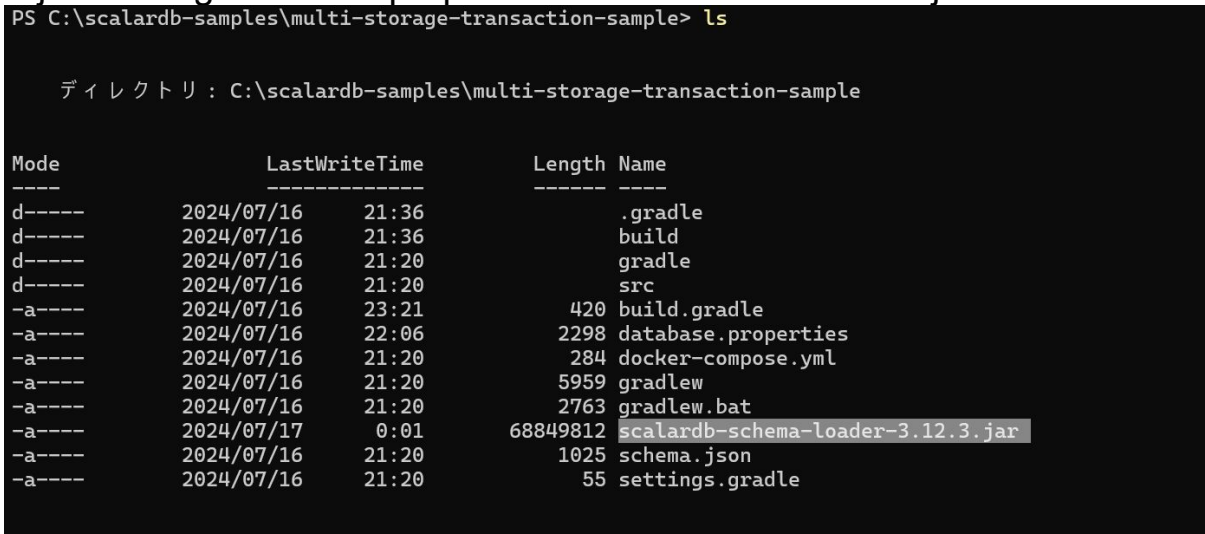


Step 5 : Load schema

Command: java -jar scalardb-schema-loader-<VERSION>.jar --config database.properties --schema-file schema.json --coordinator

Replace <VERSION>

java -jar scalardb-schema-loader-3.12.3.jar --config database.properties --schema-file schema.json --coordinator



Step 5

The successful result is shown below

```
PS C:\scalardb-samples\multi-storage-transaction-sample> java -jar scalardb-schema-loader-3.12.3.jar --config database.properties --schema-file schema.json --coordinator
[main] INFO com.scalar.db.schemaloader.command.SchemaLoaderCommand - Config path: database.properties
[main] INFO com.scalar.db.schemaloader.command.SchemaLoaderCommand - Schema path: schema.json
[main] INFO com.datastax.driver.core - DataStax Java driver 3.11.5 for Apache Cassandra
[main] INFO com.datastax.driver.core.GuavaCompatibility - Detected Guava >= 19 in the classpath, using modern compatibility layer
[main] INFO com.datastax.driver.core.Native - Could not load JNR C Library, native system calls through this library will not be available (set this logger level to DEBUG to see the full stack trace).
[main] INFO com.datastax.driver.core.ClockFactory - Using java.lang.System clock to generate timestamps.
[main] WARN com.datastax.driver.core.NettyUtil - Found Netty's native epoll transport, but not running on linux-based operating system. Using NIO instead.
[main] INFO com.datastax.driver.core.Cluster - Cannot connect with protocol version V5, trying with V4
[main] INFO com.datastax.driver.core.policies.DCAwareRoundRobinPolicy - Using data-center name 'datacenter1' for DCAwareRoundRobinPolicy (if this is incorrect, please provide the correct datacenter name with DCAwareRoundRobinPolicy constructor)
[main] INFO com.datastax.driver.core.Cluster - New Cassandra host localhost/[0:0:0:0:0:0:0:1]:9042 added
[main] INFO com.scalar.db.storage.cassandra.ClusterManager - Session to the cluster is created
[main] INFO com.scalar.db.schemaloader.SchemaOperator - Creating the table customers in the namespace customer succeeded
[main] INFO com.scalar.db.schemaloader.SchemaOperator - Creating the table orders in the namespace order succeeded
[main] INFO com.scalar.db.schemaloader.SchemaOperator - Creating the table statements in the namespace order succeeded
[main] INFO com.scalar.db.schemaloader.SchemaOperator - Creating the table items in the namespace order succeeded
[main] INFO com.scalar.db.schemaloader.SchemaOperator - Creating the coordinator tables succeeded
```

Step 6 : Load initial data

Command:

```
./gradlew run --args="LoadInitialData"
```

<Attention> If you use Command prompt then use

```
gradlew run --args="LoadInitialData"
```

or

```
gradlew.bat run --args="LoadInitialData"
```

Step 6: Expected reaction

<Notice> Use java 21: Garbled text will appear → (you can use java 8)

```
PS C:\scalardb-samples\multi-storage-transaction-sample> ./gradlew run --args="LoadInitialData"
Starting a Gradle Daemon, 2 incompatible Daemons could not be reused, use --status for details

> Task :compileJava
隴ｦ蜻・  [options] 繧ｽ繝ｼ繧ｹ蛟､8縺ｯ蟒・ｭ｢縺輔ｌ縺ｦ縺・※縲∝ｰ・擂縺ｮ繝ｪ繝ｪ繝ｼ繧ｹ縺ｧ蜑企勁縺輔ｌ縺ｾ縺吶ゅｳ縺・
                                                                                                    隴ｦ蜻・  [opt
ions] 繧ｿ繝ｼ繧ｲ繝・ヨ蛟､8縺ｯ蟒・ｭ｢縺輔ｌ縺ｦ縺・※縲∝ｰ・擂縺ｮ繝ｪ繝ｪ繝ｼ繧ｹ縺ｧ蜑企勁縺輔ｌ縺ｾ縺吶ゅｳ縺・
                                                                                               隴ｦ蜻・  [options]
蟒・ｭ｢縺輔ｌ縺溘が繝励す繝ｧ繝ｳ縺ｫ縺､縺・※縺ｮ隴ｦ蜻翫ｒ陦ｨ遉ｺ縺励↑縺・h 縺・↓縺吶k 縺ｫ縺ｯ縲・Xlint:繧ｪ繝励す繝ｧ繝ｳ繧剃ｽｿ逕
ｨ縺励※縺吶・
          隴ｦ蜻・ 蛟・

> Task :run
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come from your own sc
ripts or plugins.

See https://docs.gradle.org/7.6/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 14s
2 actionable tasks: 2 executed
```

Let’s use sample app

how to get information from database

Try 1 : Get player information from database

Successful output: You can see a similar output as below

{"id": 1, "name": "Yamada Taro", "credit_limit": 10000, "credit_total": 0}

```
PS C:\scalardb-samples\multi-storage-transaction-sample> ./gradlew run --args="GetCustomerInfo 1"

> Task :run
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
{"id": 1, "name": "Yamada Taro", "credit_limit": 10000, "credit_total": 0}

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come from your own sc
ripts or plugins.

See https://docs.gradle.org/7.6/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 8s
2 actionable tasks: 1 executed, 1 up-to-date
```

Try 2 : customer order

Then, customer (ID 1) place an order for three apples and two oranges by running the following command:

```
PS C:\scalardb-samples\multi-storage-transaction-sample> ./gradlew run --args="PlaceOrder 1 1:3,2:2"

> Task :run
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
{"order_id": "4913664c-06db-4ca4-a010-b168ec641ae5"}

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come from your own sc
ripts or plugins.

See https://docs.gradle.org/7.6/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 8s
2 actionable tasks: 1 executed, 1 up-to-date
```

Try 3 :

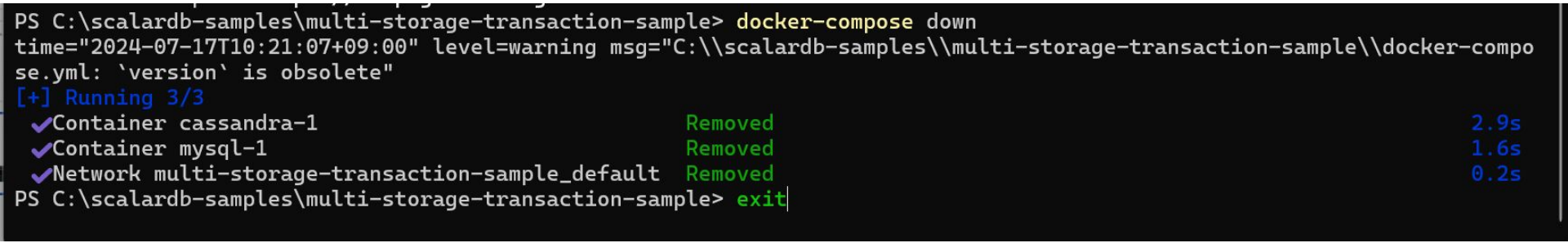
This is error output

```
PS C:\scalardb-samples\multi-storage-transaction-sample> ./gradlew run --args="GetOrder <1>"

> Task :run
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
java.lang.RuntimeException: Order not found
        at sample.Sample.getOrderJson(Sample.java:243)
        at sample.Sample.getOrderByOrderId(Sample.java:315)
        at sample.command.GetOrderCommand.call(GetOrderCommand.java:17)
        at sample.command.GetOrderCommand.call(GetOrderCommand.java:8)
        at picocli.CommandLine.executeUserObject(CommandLine.java:2041)
        at picocli.CommandLine.access$1500(CommandLine.java:148)
        at picocli.CommandLine$RunLast.executeUserObjectOfLastSubcommandWithSameParent(CommandLine.java:2461)
        at picocli.CommandLine$RunLast.handle(CommandLine.java:2453)
        at picocli.CommandLine$RunLast.handle(CommandLine.java:2415)
        at picocli.CommandLine$AbstractParseResultHandler.execute(CommandLine.java:2273)
        at picocli.CommandLine$RunLast.execute(CommandLine.java:2417)
        at picocli.CommandLine.execute(CommandLine.java:2170)
        at sample.command.SampleCommand.main(SampleCommand.java:35)

Deprecated Gradle features were used in this build, making it incompatible with Gradle 8.0.

You can use '--warning-mode all' to show the individual deprecation warnings and determine if they come from your own sc
ripts or plugins.

See https://docs.gradle.org/7.6/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 6s
2 actionable tasks: 1 executed, 1 up-to-date
```

The last

docker-compose down

exit

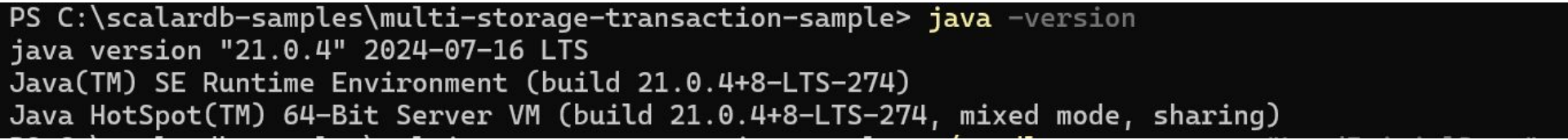


Appendix

Cannot load schema

./gradlew run --args="LoadInitialData" → error

Check java version and reload schema (step 5)



Check your environment path “JAVA_HOME”