**Step – 1 – Create MySQL DB containers for microservices**

Run MySQL docker container  
PS C:\Users\niles> docker run -d -p 3306:3306 --name accountsdb -e MYSQL\_ROOT\_PASSWORD=root -e MYSQL\_DATABASE=accountsdb mysql

PS C:\Users\niles> docker run -d -p 3307:3306 --name loansdb -e MYSQL\_ROOT\_PASSWORD=root -e MYSQL\_DATABASE=loansdb mysql

PS C:\Users\niles> docker run -d -p 3308:3306 --name cardsdb -e MYSQL\_ROOT\_PASSWORD=root -e MYSQL\_DATABASE=cardsdb mysql

Download sqlectron  
https://github.com/sqlectron/sqlectron-gui/releases/tag/v1.38.0

**Step – 2 – Update microservices code to replace H2 DB with MySQL DB**

Remove H2 dependency and add Mysql dependency for accounts, loans and cards pom.xml  
<!-- <dependency>

<groupId>com.h2database</groupId>

<artifactId>h2</artifactId>

<scope>runtime</scope>

</dependency>

-->

<dependency>

<groupId>com.mysql</groupId>

<artifactId>mysql-connector-j</artifactId>

<scope>runtime</scope>

</dependency>

Update accounts service accounts\src\main\resources\application.yml for DB configuration  
 …

datasource:

url: jdbc:mysql://localhost:**3306**/accountsdb

~~driverClassName: org.h2.Driver~~

username: root

password: root

~~h2:~~

~~console:~~

~~enabled: true~~jpa:

~~database-platform: org.hibernate.dialect.H2Dialect~~

~~hibernate:~~

~~ddl-auto: update~~ show-sql: true

sql:

init:

mode: always

…

Update loans service loans\src\main\resources\application.yml for DB configuration  
 …

datasource:

url: jdbc:mysql://localhost:**3307**/loansdb

~~driverClassName: org.h2.Driver~~

username: root

password: root

~~h2:~~

~~console:~~

~~enabled: true~~jpa:

~~database-platform: org.hibernate.dialect.H2Dialect~~

~~hibernate:~~

~~ddl-auto: update~~ show-sql: true

sql:

init:

mode: always

…  
  
Update cards service cards\src\main\resources\application.yml for DB configuration

…

datasource:

url: jdbc:mysql://localhost:**3308**/cardsdb

~~driverClassName: org.h2.Driver~~

username: root

password: root

~~h2:~~

~~console:~~

~~enabled: true~~jpa:

~~database-platform: org.hibernate.dialect.H2Dialect~~

~~hibernate:~~

~~ddl-auto: update~~ show-sql: true

sql:

init:

mode: always

…

Start configserver (wait for few minutes) 🡪 accounts 🡪 loans 🡪 cards  
  
Verify config server endpoints  
<http://localhost:8071/accounts/prod> or default or qa  
<http://localhost:8071/loans/prod> or default or qa  
http://localhost:8071/cards/prod or default or qa

Test all CRUD endpoints for accounts, loans and cards.

Step – 3 – Update docker compose file to create & use MySQL DB

Step – 4 – Running microservices & MySQL DB container using docker-compose file

Step – 5 – Demo of docker network concept