

Package Explorer

Customer-Rewards-Calculator

src/main/java

src/main/resources

application.properties

script.sql

JRE System Library [JavaSE-1.8]

Referenced Libraries

bin

gradle

src

main

com

customer

rewards

program

build.gradle

gradlew

gradlew.bat

README.md

settings.gradle

application.properties

```
1 spring.datasource.url=jdbc:h2:mem:default
2 spring.datasource.driverClassName=org.h2.Driver
3 spring.datasource.username=sa
4 spring.datasource.password=sa
5 spring.jpa.database-platform=org.hibernate.dialect.H2Dialect
6 spring.h2.console.enabled=true
7 spring.h2.console.path=/h2
8 spring.h2.console.settings.web-allow-others=true
9
10 ## Access In-memory DB server URL on browser once the spring application is started.
11 ## Run SQL in the DB to insert data into the tables
12 ## URL : http://localhost:8080/h2
```

Problems

Javadoc

Declaration

Console

Gradle Executions

Operation	Duration
Run build	inning for 29.702 s
Run tasks	nning for 29.608 s
:classes UP-TO-DATE	0.000 s
:processResources UP-TO-DATE	0.005 s
Notify task graph whenReady listeners	0.001 s
:bootRun	nning for 29.009 s
:compileJava UP-TO-DATE	0.585 s
Calculate task graph	0.016 s
Load build	0.009 s
Configure build	0.068 s

Gradle Tasks

Name	Description
Customer-Rewards-Calculator	
application	
bootRun	Runs this project as a Spring Boot application.
build	
assemble	Assembles the outputs of this project.
bootJar	Assembles an executable jar archive containing the main classes and their d
build	Assembles and tests this project.
buildDependents	Assembles and tests this project and all projects that depend on it.
buildNeeded	Assembles and tests this project and all projects it depends on.
classes	Assembles main classes.
clean	Deletes the build directory.
jar	Assembles a jar archive containing the main classes.
testClasses	Assembles test classes.
build setup	
init	Initializes a new Gradle build.
wrapper	Generates Gradle wrapper files.
documentation	
javadoc	Generates Javadoc API documentation for the main source code.
help	
buildEnvironment	Displays all buildscript dependencies declared in root project 'Customer-Re
components	Displays the components produced by root project 'Customer-Rewards-Cal
dependencies	Displays all dependencies declared in root project 'Customer-Rewards-Cal
dependencyInsight	Displays the insight into a specific dependency in root project 'Customer-Re
dependencyManagement	Displays the dependency management declared in root project 'Customer-R
dependentComponents	Displays the dependent components of components in root project 'Custom
help	Displays a help message.
model	Displays the configuration model of root project 'Customer-Rewards-Calcul
projects	Displays the sub-projects of root project 'Customer-Rewards-Calculator'.
properties	Displays the properties of root project 'Customer-Rewards-Calculator'.
tasks	Displays the tasks runnable from root project 'Customer-Rewards-Calculato
ide	
cleanEclipse	Cleans all Eclipse files.
eclipse	Generates all Eclipse files.
verification	
check	Runs all checks.
test	Runs the unit tests.

English

[Preferences](#) [Tools](#) [Help](#)

Login

Saved Settings: Generic H2 (Embedded) ▾

Setting Name: Generic H2 (Embedded)

Driver Class: org.h2.Driver

JDBC URL: jdbc:h2:mem:default

User Name: sa

Password:

Test successful


```
CREATE TABLE CUSTOMER (CUSTOMER_ID int, CUSTOMER_NAME VARCHAR2(50) );
CREATE TABLE TRANSACTION (TRANSACTION_ID int,CUSTOMER_ID int ,TRANSACTION_DATE DATE,AMOUNT int);
INSERT INTO CUSTOMER(CUSTOMER_ID,CUSTOMER_NAME) values (10020030001,'Customer1');
INSERT INTO CUSTOMER(CUSTOMER_ID,CUSTOMER_NAME) values (10020030002,'Customer2');
INSERT INTO CUSTOMER(CUSTOMER_ID,CUSTOMER_NAME) values (10020030003,'Customer3');
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123421,10020030001,'2022-09-02',120);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123420,10020030001,'2022-09-01',85);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123419,10020030001,'2022-08-04',160);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123418,10020030001,'2022-08-01',90);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123417,10020030001,'2022-08-04',120);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123416,10020030001,'2022-08-05',165);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123415,10020030002,'2022-08-05',113);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123414,10020030002,'2022-08-27',80);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123113,10020030002,'2022-08-04',102);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123112,10020030002,'2022-08-01',210);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123411,10020030002,'2022-08-27',130);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123410,10020030002,'2022-07-15',88);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123409,10020030003,'2022-07-05',102);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123408,10020030003,'2022-06-27',84);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123407,10020030003,'2022-05-04',200);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123406,10020030003,'2022-04-01',103);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123405,10020030003,'2022-03-27',500);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123404,10020030003,'2022-03-20',585);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1000123403,10020030003,'2022-01-14',102);
COMMIT;
CREATE TABLE customer (
  customer_id BIGINT AUTO_INCREMENT NOT NULL,
  customer_name VARCHAR(255),
  CONSTRAINT pk_customer PRIMARY KEY (customer_id)
);
CREATE TABLE transaction (
  transaction_id BIGINT AUTO_INCREMENT NOT NULL,
  customer_id BIGINT,
```


H2 Console

localhost:8080/h2/login.do?jsessionId=c8ccd459c84a82c0d149c461713d4d00

Auto commit

Max rows: 1000

Auto complete Off

Auto select On

jdbc:h2:mem:default

CUSTOMER

TRANSACTION

INFORMATION_SCHEMA

Users

H2 1.4.200 (2019-10-14)

Run

Run Selected

Auto complete

Clear

SQL statement:

INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123410,10030002,'2022-07-15',88);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123409,10030003,'2022-07-05',102);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123408,10030003,'2022-06-27',84);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123407,10030003,'2022-05-04',200);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123406,10030003,'2022-04-01',103);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123405,10030003,'2022-03-27',500);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123404,10030003,'2022-03-20',585);
INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123403,10030003,'2022-01-14',102);
COMMIT;

INSERT INTO CUSTOMER(CUSTOMER_ID,CUSTOMER_NAME) values (10030001,'CustomerCustomer1');
Update count: 1
(5 ms)

INSERT INTO CUSTOMER(CUSTOMER_ID,CUSTOMER_NAME) values (10030002,'Customer2');
Update count: 1
(1 ms)

INSERT INTO CUSTOMER(CUSTOMER_ID,CUSTOMER_NAME) values (10030003,'Customer3');
Update count: 1
(1 ms)

INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123421,10030001,'2022-09-02',120);
Update count: 1
(1 ms)

INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123420,10030001,'2022-09-01',85);
Update count: 1
(0 ms)

INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123419,10030001,'2022-08-04',160);
Update count: 1
(1 ms)

INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123418,10030001,'2022-08-01',90);
Update count: 1
(0 ms)

INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123417,10030001,'2022-08-04',120);
Update count: 1
(0 ms)

INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123416,10030001,'2022-08-05',165);
Update count: 1
(2 ms)

INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123415,10030002,'2022-08-05',113);
Update count: 1
(1 ms)

INSERT INTO TRANSACTION(TRANSACTION_ID,CUSTOMER_ID,TRANSACTION_DATE,AMOUNT) VALUES (1123414,10030002,'2022-08-27',80);
Update count: 1
(0 ms)

H2 Console

localhost:8080/h2/login.do?jsessionId=c8ccd459c84a82c0d149c461713d4d00

Auto commit

Max rows: 1000

Auto complete

Auto select

Off

On

jdbc:h2:mem:default

CUSTOMER

TRANSACTION

INFORMATION_SCHEMA

Users

H2 1.4.200 (2019-10-14)

RunRun SelectedAuto completeClear

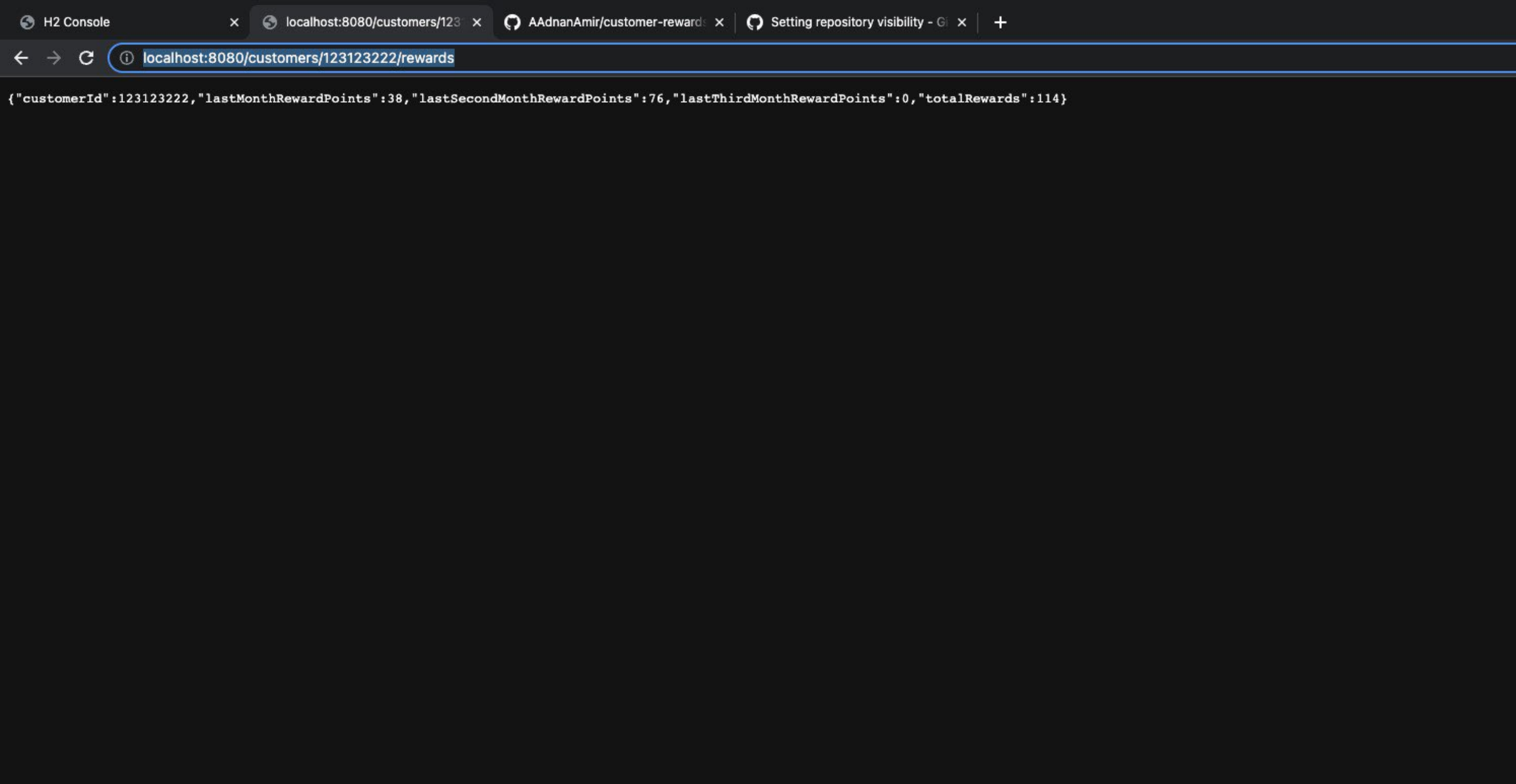
SQL statement:

SELECT * FROM TRANSACTION

SELECT * FROM TRANSACTION;

TRANSACTION_ID	CUSTOMER_ID	TRANSACTION_DATE	AMOUNT
1123421	10030001	2022-09-02	120
1123420	10030001	2022-09-01	85
1123419	10030001	2022-08-04	160
1123418	10030001	2022-08-01	90
1123417	10030001	2022-08-04	120
1123416	10030001	2022-08-05	165
1123415	10030002	2022-08-05	113
1123414	10030002	2022-08-27	80
1123113	10030002	2022-08-04	102
1123112	10030002	2022-08-01	210
1123411	10030002	2022-08-27	130
1123410	10030002	2022-07-15	88
1123409	10030003	2022-07-05	102
1123408	10030003	2022-06-27	84
1123407	10030003	2022-05-04	200
1123406	10030003	2022-04-01	103
1123405	10030003	2022-03-27	500
1123404	10030003	2022-03-20	585
1123403	10030003	2022-01-14	102

(19 rows, 12 ms)



{"customerId":123123222,"lastMonthRewardPoints":38,"lastSecondMonthRewardPoints":76,"lastThirdMonthRewardPoints":0,"totalRewards":114}