CS 5408 – Data Management, Warehousing and Analytics
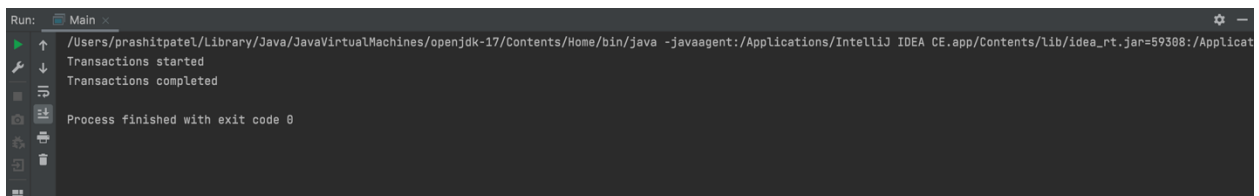
Assignment – 2
Problem 2
Task 2

Prashit Patel - B00896717

I Prashit Prakashbhai Patel, declare that in assignment 2 of CSCI 5408 course, data scrapping is not done programmatically or using any online or offline tools. However, the webpages within dal.ca domain are visited manually, and some useful information is gathered for education purpose only. Information, such as email, personal contact numbers, or names of people are not extracted. The course instructor or the Faculty of Computer Science cannot be held responsible for any misuse of the extracted data.
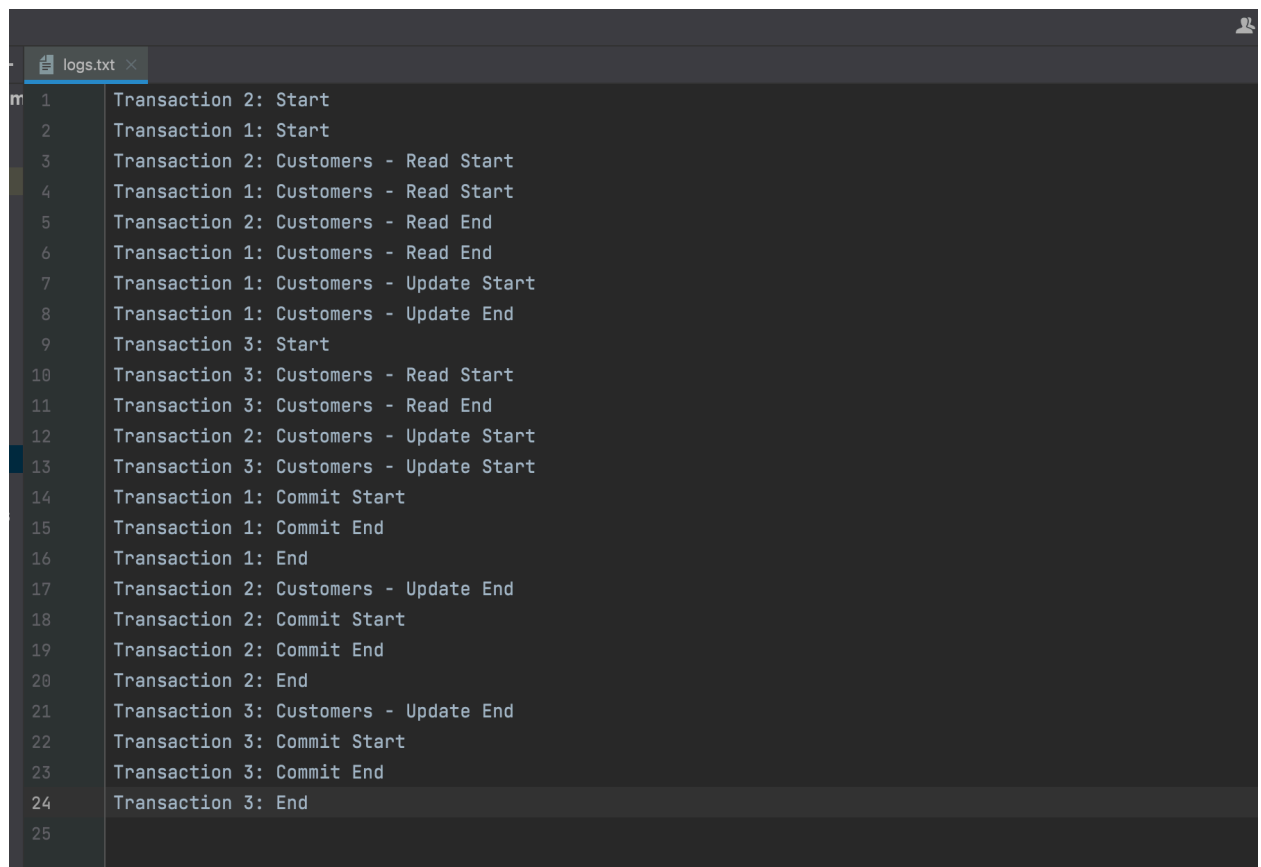
- **Program code added to following repository**

- **Concurrent transaction screenshots**

Before locking execution

Before locking log file output

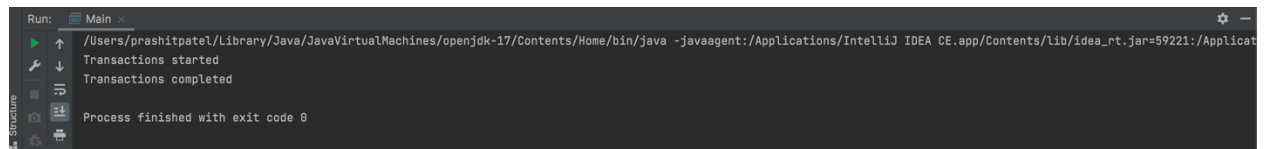**After locking execution**


```
Run:    Main ×
    ▶  ↑   /Users/prashitpatel/Library/Java/JavaVirtualMachines/openjdk-17/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar=59221:/Applicat
    ↗  ↓   Transactions started
           Transactions completed
    ⬛ ⇥
    ⚙ ⬚   Process finished with exit code 0
    ⚙ 🖶
```

After locking log file output

```
logs.txt ×

1    Transaction 1: Start
2    Transaction 2: Start
3    Transaction 2: Read Lock
4    Transaction 2: Customers - Read Start
5    Transaction 1: Read Lock
6    Transaction 1: Customers - Read Start
7    Transaction 1: Customers - Read End
8    Transaction 2: Customers - Read End
9    Transaction 2: Read Lock Released
10   Transaction 1: Read Lock Released
11   Transaction 1: Write Lock
12   Transaction 1: Customers - Update Start
13   Transaction 1: Customers - Update End
14   Transaction 3: Start
15   Transaction 1: Commit Start
16   Transaction 1: Commit End
17   Transaction 1: Write Lock Released
18   Transaction 2: Write Lock
19   Transaction 2: Customers - Update Start
20   Transaction 1: End
21   Transaction 2: Customers - Update End
22   Transaction 2: Commit Start
23   Transaction 2: Commit End
24   Transaction 2: Write Lock Released
25   Transaction 2: End
26   Transaction 3: Read Lock
27   Transaction 3: Customers - Read Start
28   Transaction 3: Customers - Read End
29   Transaction 3: Read Lock Released
30   Transaction 3: Write Lock
31   Transaction 3: Customers - Update Start
32   Transaction 3: Customers - Update End
33   Transaction 3: Commit Start
34   Transaction 3: Commit End
35   Transaction 3: Write Lock Released
36   Transaction 3: End
```

References:

[1] Oreilly [Online]
Available: https://www.oreilly.com/library/view/mysql-reference-manual/0596002653/ch06s07.html

[2] Baeldung [Online]
Available: https://www.baeldung.com/java-how-to-create-a-file