Spark Version: 2.3.3 Python Version: 3.6

Task 2, Case 1: Model-based CF recommendation system

| RMSE | 1.15 |
|------------|---------------|
| Time (sec) | 31.89 seconds |

Task 2, Case 2: User-based CF recommendation system

| RMSE | 1.115 |
|------------|----------------|
| Time (sec) | 152.12 seconds |

Task 2, Case 3: Item-based CF recommendation system

Did not implement – do not check.