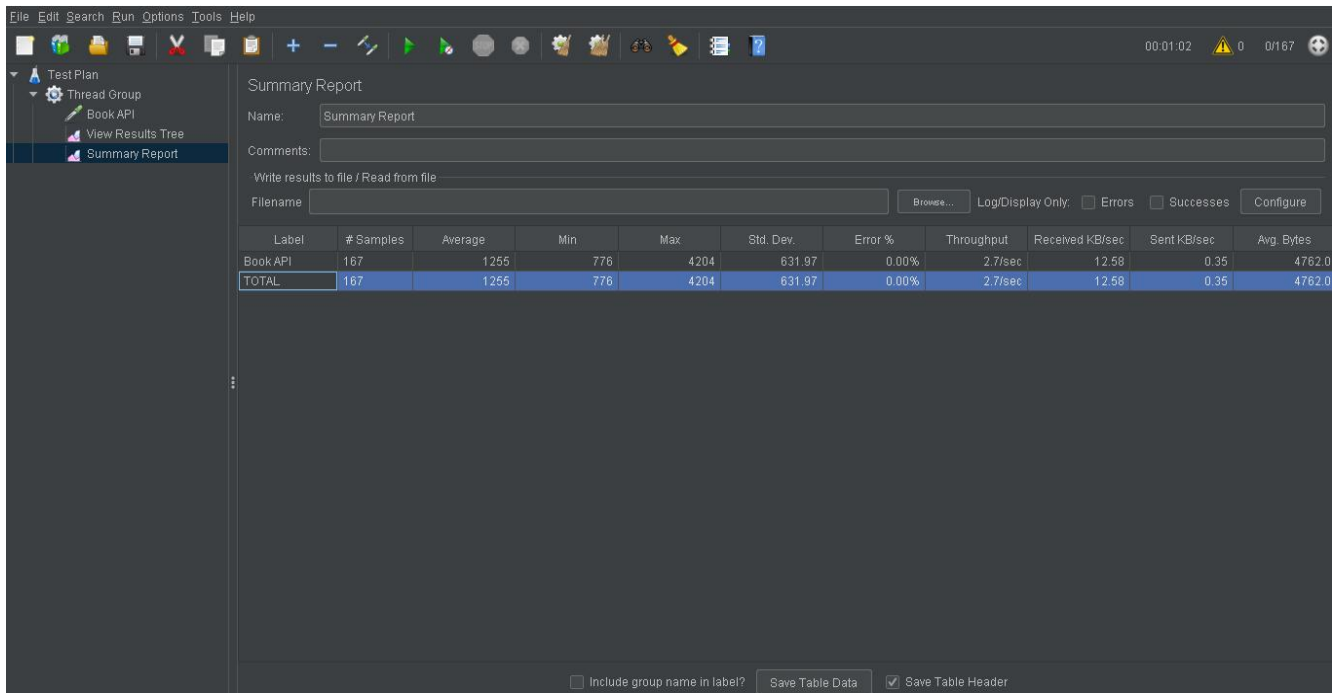


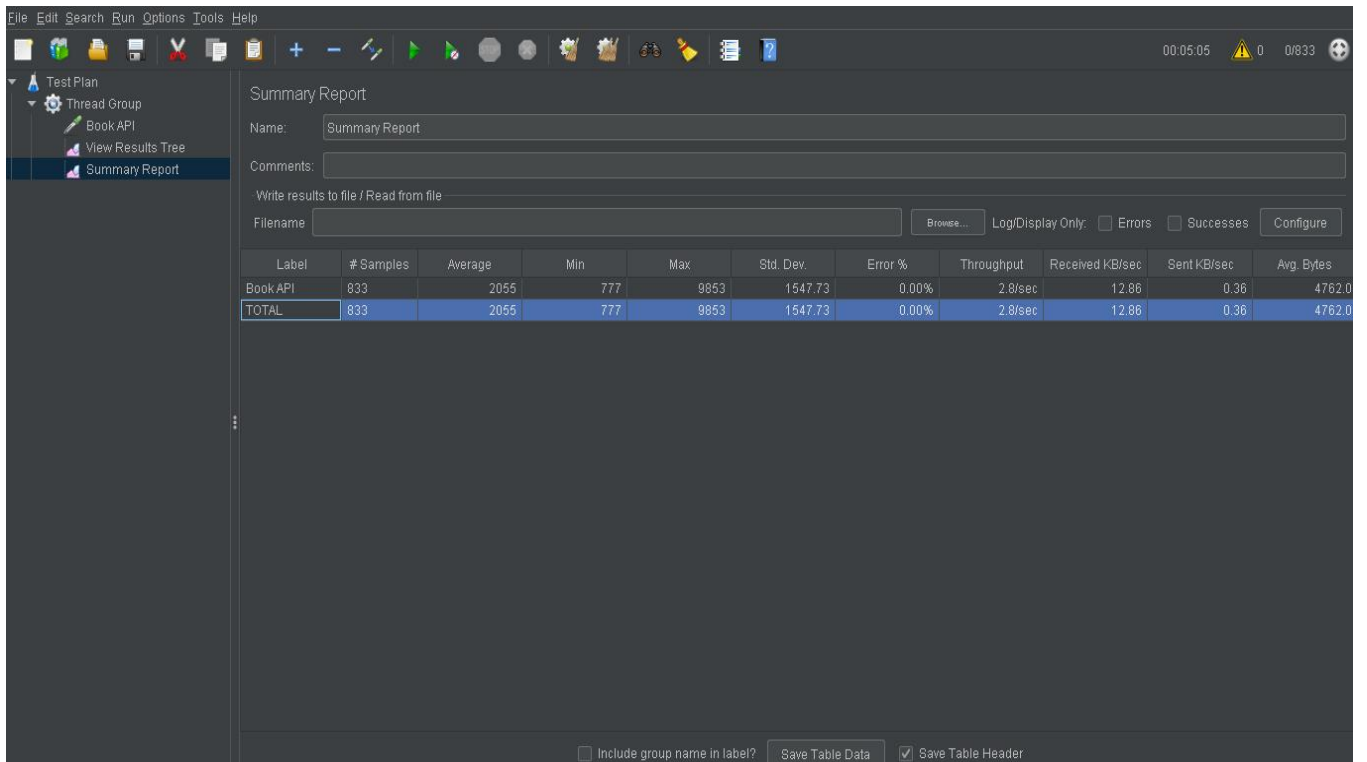
**Step 1: 167 users for 60 sec**  
**Throughput : 2.7 sec**



The screenshot shows the JMeter Summary Report window. The left sidebar displays the test plan structure: Test Plan, Thread Group, Book API, View Results Tree, and Summary Report. The main area shows the 'Summary Report' configuration with fields for Name, Comments, and a table of results. The table has columns for Label, # Samples, Average, Min, Max, Std. Dev., Error %, Throughput, Received KB/sec, Sent KB/sec, and Avg. Bytes. The data for 'Book API' and 'TOTAL' is displayed.

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Book API	167	1255	776	4204	631.97	0.00%	2.7/sec	12.58	0.35	4762.0
TOTAL	167	1255	776	4204	631.97	0.00%	2.7/sec	12.58	0.35	4762.0

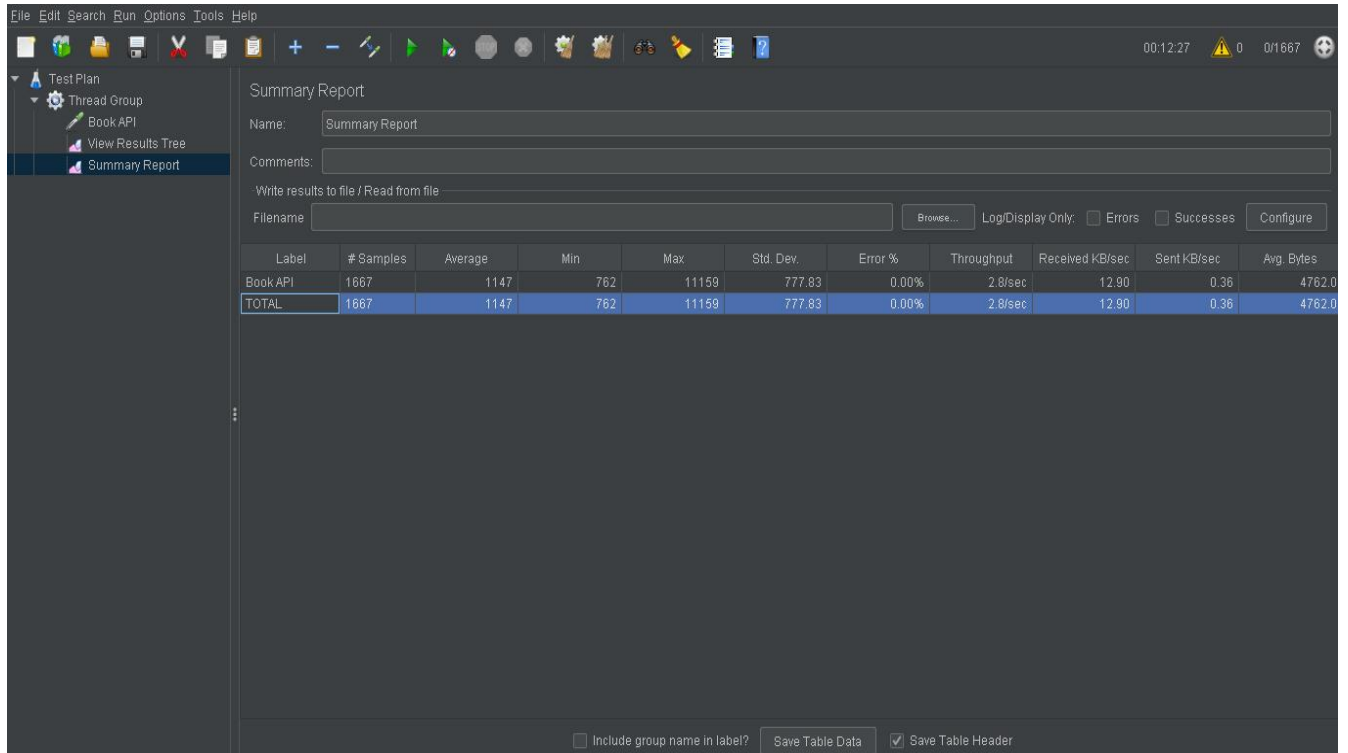
**Step 2: 833 users for 300 sec**  
**Throughput : 2.8sec**



The screenshot shows the JMeter Summary Report window for Step 2. The left sidebar displays the test plan structure: Test Plan, Thread Group, Book API, View Results Tree, and Summary Report. The main area shows the 'Summary Report' configuration with fields for Name, Comments, and a table of results. The table has columns for Label, # Samples, Average, Min, Max, Std. Dev., Error %, Throughput, Received KB/sec, Sent KB/sec, and Avg. Bytes. The data for 'Book API' and 'TOTAL' is displayed.

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Book API	833	2055	777	9853	1547.73	0.00%	2.8/sec	12.86	0.36	4762.0
TOTAL	833	2055	777	9853	1547.73	0.00%	2.8/sec	12.86	0.36	4762.0

### Step 3: 1667 users for 600 sec Throughput : 2.8sec



The screenshot shows the Apache JMeter Summary Report interface. The left sidebar displays the test plan structure: Test Plan, Thread Group, Book API, View Results Tree, and Summary Report. The main panel shows the Summary Report for the 'Book API' test. The report includes a table with the following data:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Book API	1667	1147	762	11159	777.83	0.00%	2.8/sec	12.90	0.36	4762.0
TOTAL	1667	1147	762	11159	777.83	0.00%	2.8/sec	12.90	0.36	4762.0

At the bottom of the report, there are checkboxes for 'Include group name in label?' (unchecked), 'Save Table Data' (checked), and 'Save Table Header' (checked).

### Step 4: 2500 users for 900 sec Throughput : 2.8sec

```
Acer@DESKTOP-5R539EC MINGW64 /d/apache-jmeter-5.3/bin
$ jmeter -n -t BookAPI.jmx -l BookAPI.csv -e -o Reports
Creating summariser <summary>
Created the tree successfully using BookAPI.jmx
Starting standalone test @ Fri Jul 01 00:09:36 BDT 2022 (1656612576089)
Waiting for possible Shutdown/StopTestNow/HeapDump/ThreadDump message on port 44
45
summary + 63 in 00:00:23 = 2.7/s Avg: 1145 Min: 779 Max: 3376 Err:
0 (0.00%) Active: 3 Started: 65 Finished: 62
summary + 83 in 00:00:30 = 2.8/s Avg: 854 Min: 767 Max: 1789 Err:
0 (0.00%) Active: 3 Started: 148 Finished: 145
summary = 146 in 00:00:53 = 2.7/s Avg: 980 Min: 767 Max: 3376 Err:
0 (0.00%)
summary + 84 in 00:00:30 = 2.8/s Avg: 849 Min: 762 Max: 1810 Err:
0 (0.00%) Active: 3 Started: 232 Finished: 229
summary = 230 in 00:01:23 = 2.8/s Avg: 932 Min: 762 Max: 3376 Err:
0 (0.00%)
summary + 83 in 00:00:30 = 2.8/s Avg: 871 Min: 771 Max: 1432 Err:
0 (0.00%) Active: 3 Started: 315 Finished: 312
summary = 313 in 00:01:53 = 2.8/s Avg: 916 Min: 762 Max: 3376 Err:
0 (0.00%)
summary + 82 in 00:00:30 = 2.7/s Avg: 983 Min: 791 Max: 2262 Err:
0 (0.00%) Active: 3 Started: 397 Finished: 394
summary = 395 in 00:02:23 = 2.8/s Avg: 930 Min: 762 Max: 3376 Err:
0 (0.00%)
summary + 83 in 00:00:30 = 2.7/s Avg: 1206 Min: 783 Max: 3484 Err:
0 (0.00%) Active: 5 Started: 482 Finished: 477
summary = 478 in 00:02:54 = 2.7/s Avg: 978 Min: 762 Max: 3484 Err:
0 (0.00%)
summary + 84 in 00:00:29 = 2.9/s Avg: 1049 Min: 791 Max: 3260 Err:
0 (0.00%) Active: 3 Started: 564 Finished: 561
summary = 562 in 00:03:23 = 2.8/s Avg: 988 Min: 762 Max: 3484 Err:
0 (0.00%)
summary + 82 in 00:00:30 = 2.7/s Avg: 1475 Min: 799 Max: 4295 Err:
0 (0.00%) Active: 4 Started: 647 Finished: 643
summary = 644 in 00:03:53 = 2.8/s Avg: 1050 Min: 762 Max: 4295 Err:
0 (0.00%)
summary + 84 in 00:00:30 = 2.8/s Avg: 1745 Min: 1237 Max: 4735 Err:
0 (0.00%) Active: 4 Started: 731 Finished: 727
summary = 728 in 00:04:24 = 2.8/s Avg: 1130 Min: 762 Max: 4735 Err:
0 (0.00%)
summary + 83 in 00:00:30 = 2.8/s Avg: 1342 Min: 1003 Max: 3275 Err:
0 (0.00%) Active: 5 Started: 815 Finished: 810
summary = 811 in 00:04:54 = 2.8/s Avg: 1152 Min: 762 Max: 4735 Err:
0 (0.00%)
summary + 84 in 00:00:30 = 2.8/s Avg: 1207 Min: 911 Max: 3091 Err:
0 (0.00%) Active: 4 Started: 898 Finished: 894
summary = 895 in 00:05:23 = 2.8/s Avg: 1157 Min: 762 Max: 4735 Err:
0 (0.00%)
```

```

summary +      84 in 00:00:30 =      2.8/s Avg: 1207 Min: 911 Max: 3091 Err:
0 (0.00%) Active: 4 Started: 898 Finished: 894
summary =      895 in 00:05:23 =      2.8/s Avg: 1157 Min: 762 Max: 4735 Err:
0 (0.00%)
summary +      84 in 00:00:30 =      2.8/s Avg: 1101 Min: 774 Max: 4667 Err:
0 (0.00%) Active: 3 Started: 981 Finished: 978
summary =      979 in 00:05:53 =      2.8/s Avg: 1152 Min: 762 Max: 4735 Err:
0 (0.00%)
summary +      84 in 00:00:30 =      2.8/s Avg: 1074 Min: 764 Max: 6275 Err:
0 (0.00%) Active: 3 Started: 1065 Finished: 1062
summary =     1063 in 00:06:23 =      2.8/s Avg: 1146 Min: 762 Max: 6275 Err:
0 (0.00%)
summary +      84 in 00:00:30 =      2.8/s Avg: 863 Min: 752 Max: 2452 Err:
0 (0.00%) Active: 3 Started: 1149 Finished: 1146
summary =     1147 in 00:06:53 =      2.8/s Avg: 1125 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      82 in 00:00:30 =      2.8/s Avg: 889 Min: 764 Max: 1668 Err:
0 (0.00%) Active: 3 Started: 1231 Finished: 1228
summary =     1229 in 00:07:23 =      2.8/s Avg: 1110 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      84 in 00:00:30 =      2.8/s Avg: 959 Min: 762 Max: 2538 Err:
0 (0.00%) Active: 3 Started: 1315 Finished: 1312
summary =     1313 in 00:07:53 =      2.8/s Avg: 1100 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      84 in 00:00:30 =      2.8/s Avg: 834 Min: 757 Max: 2043 Err:
0 (0.00%) Active: 3 Started: 1399 Finished: 1396
summary =     1397 in 00:08:23 =      2.8/s Avg: 1084 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      83 in 00:00:30 =      2.8/s Avg: 883 Min: 774 Max: 1745 Err:
0 (0.00%) Active: 3 Started: 1482 Finished: 1479
summary =     1480 in 00:08:53 =      2.8/s Avg: 1073 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      83 in 00:00:30 =      2.8/s Avg: 912 Min: 763 Max: 2589 Err:
0 (0.00%) Active: 3 Started: 1565 Finished: 1562
summary =     1563 in 00:09:23 =      2.8/s Avg: 1064 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      84 in 00:00:30 =      2.8/s Avg: 943 Min: 775 Max: 2446 Err:
0 (0.00%) Active: 3 Started: 1649 Finished: 1646
summary =     1647 in 00:09:53 =      2.8/s Avg: 1058 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      83 in 00:00:30 =      2.8/s Avg: 858 Min: 763 Max: 2512 Err:
0 (0.00%) Active: 3 Started: 1732 Finished: 1729
summary =     1730 in 00:10:23 =      2.8/s Avg: 1048 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      83 in 00:00:30 =      2.8/s Avg: 840 Min: 760 Max: 1710 Err:
0 (0.00%) Active: 3 Started: 1815 Finished: 1812
summary =     1813 in 00:10:53 =      2.8/s Avg: 1039 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      84 in 00:00:30 =      2.8/s Avg: 1007 Min: 768 Max: 3490 Err:
0 (0.00%) Active: 3 Started: 1899 Finished: 1896

```

```

0 (0.00%)
summary +      83 in 00:00:30 =      2.8/s Avg: 858 Min: 763 Max: 2512 Err:
0 (0.00%) Active: 3 Started: 1732 Finished: 1729
summary =     1730 in 00:10:23 =      2.8/s Avg: 1048 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      83 in 00:00:30 =      2.8/s Avg: 840 Min: 760 Max: 1710 Err:
0 (0.00%) Active: 3 Started: 1815 Finished: 1812
summary =     1813 in 00:10:53 =      2.8/s Avg: 1039 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      84 in 00:00:30 =      2.8/s Avg: 1007 Min: 768 Max: 3490 Err:
0 (0.00%) Active: 3 Started: 1899 Finished: 1896
summary =     1897 in 00:11:23 =      2.8/s Avg: 1037 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      83 in 00:00:30 =      2.8/s Avg: 996 Min: 766 Max: 2927 Err:
0 (0.00%) Active: 3 Started: 1982 Finished: 1979
summary =     1980 in 00:11:53 =      2.8/s Avg: 1036 Min: 752 Max: 6275 Err:
0 (0.00%)
summary +      81 in 00:00:30 =      2.7/s Avg: 1684 Min: 771 Max: 7666 Err:
0 (0.00%) Active: 5 Started: 2065 Finished: 2060
summary =     2061 in 00:12:23 =      2.8/s Avg: 1061 Min: 752 Max: 7666 Err:
0 (0.00%)
summary +      85 in 00:00:30 =      2.9/s Avg: 1287 Min: 774 Max: 19337 Err:
0 (0.00%) Active: 3 Started: 2148 Finished: 2145
summary =     2146 in 00:12:53 =      2.8/s Avg: 1070 Min: 752 Max: 19337 Err:
0 (0.00%)
summary +      83 in 00:00:30 =      2.8/s Avg: 846 Min: 761 Max: 1829 Err:
0 (0.00%) Active: 3 Started: 2231 Finished: 2228
summary =     2229 in 00:13:23 =      2.8/s Avg: 1062 Min: 752 Max: 19337 Err:
0 (0.00%)
summary +      84 in 00:00:31 =      2.7/s Avg: 1097 Min: 782 Max: 4842 Err:
0 (0.00%) Active: 4 Started: 2316 Finished: 2312
summary =     2313 in 00:13:54 =      2.8/s Avg: 1063 Min: 752 Max: 19337 Err:
0 (0.00%)
summary +      83 in 00:00:30 =      2.8/s Avg: 1146 Min: 909 Max: 2720 Err:
0 (0.00%) Active: 4 Started: 2399 Finished: 2395
summary =     2396 in 00:14:23 =      2.8/s Avg: 1066 Min: 752 Max: 19337 Err:
0 (0.00%)
summary +      82 in 00:00:30 =      2.8/s Avg: 1529 Min: 958 Max: 3332 Err:
0 (0.00%) Active: 4 Started: 2481 Finished: 2477
summary =     2478 in 00:14:53 =      2.8/s Avg: 1081 Min: 752 Max: 19337 Err:
0 (0.00%)
summary +      22 in 00:00:09 =      2.5/s Avg: 1680 Min: 1240 Max: 3601 Err:
0 (0.00%) Active: 0 Started: 2500 Finished: 2500
summary =     2500 in 00:15:02 =      2.8/s Avg: 1087 Min: 752 Max: 19337 Err:
0 (0.00%)
Tidying up ... @ Fri Jul 01 00:24:38 BDT 2022 (1656613478772)
... end of run

```

```

Acer@DESKTOP-5R539EC MINGW64 /d/apache-jmeter-5.3/bin
$

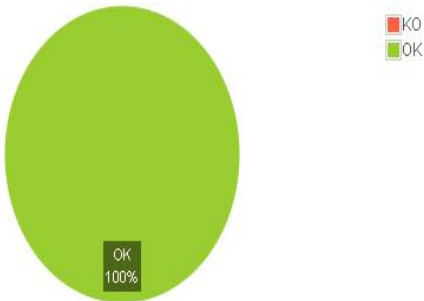
```

HTML Report : 2500 users for 900 sec

APDEX (Application Performance Index)

Apdex	T (Toleration threshold)	F (Frustration threshold)	Label
0.448	500 ms	1 sec 500 ms	Total
0.448	500 ms	1 sec 500 ms	BookAPI

Requests Summary



Statistics

Requests		Executions		Response Times (ms)							Throughput	Network (KB/sec)	
Label	#Samples	KO	Error %	Average	Min	Max	Median	90th pct	95th pct	99th pct	Transactions/s	Received	Sent
Total	2500	0	0.00%	1087.03	752	19337	871.00	1512.80	2097.65	3489.94	2.77	12.90	0.36
BookAPI	2500	0	0.00%	1087.03	752	19337	871.00	1512.80	2097.65	3489.94	2.77	12.90	0.36