
Non-Functional Testing – Project

Web application Load and Capacity Test

LOAD AND CAPACITY TEST PLAN AND REPORT

Instructions for web load testing and capacity testing using JDBC load testing of an address-book application.

Steps:

1.1 INSTALL THE APPLICATION INCORPORATING THE DATABASE

Download the file AddressBookApp.zip. This zip file contains a local copy of the tool as well as other required software needed to run the tool locally.

Install the software using the following instructions:

Unzip contents of the zip file. Place the pdrive folder, and start.bat directly under C: drive. Next, double click on start.bat file which you placed under C: driver earlier. This will start the software (Apache, MySQL, etc.) needed for the tool. Research how to use it.

Navigate to <http://localhost/index.php>

The data gathered and displayed by this module is stored in a single database table with the following structure (shown as an SQL table create command):

```
CREATE TABLE `addresses` (
  `addr_id` int(20) NOT NULL AUTO_INCREMENT,
  `addr_type` char(10) NOT NULL,
  `addr_first_name` varchar(50) DEFAULT NULL,
  `addr_last_name` varchar(50) DEFAULT NULL,
  `addr_business` varchar(75) DEFAULT NULL,
  `addr_addr_line_1` varchar(75) DEFAULT NULL,
  `addr_addr_line_2` varchar(75) DEFAULT NULL,
  `addr_addr_line_3` varchar(75) DEFAULT NULL,
  `addr_city` varchar(50) DEFAULT NULL,
  `addr_region` varchar(50) DEFAULT NULL,
  `addr_country` varchar(50) DEFAULT NULL,
  `addr_post_code` varchar(20) DEFAULT NULL,
  `addr_email_1` varchar(128) DEFAULT NULL,
  `addr_email_2` varchar(128) DEFAULT NULL,
  `addr_email_3` varchar(128) DEFAULT NULL,
  `addr_phone_1_type` varchar(10) DEFAULT NULL,
  `addr_phone_1` varchar(25) DEFAULT NULL,
  `addr_phone_2_type` varchar(10) DEFAULT NULL,
```

```

`addr_phone_2` varchar(25) DEFAULT NULL,
`addr_phone_3_type` varchar(10) DEFAULT NULL,
`addr_phone_3` varchar(25) DEFAULT NULL,
`addr_web_url_1` varchar(128) DEFAULT NULL,
`addr_web_url_2` varchar(128) DEFAULT NULL,
`addr_web_url_3` varchar(128) DEFAULT NULL,
PRIMARY KEY (`addr_id`),
KEY `first_name` (`addr_first_name`),
KEY `last_name` (`addr_last_name`),
KEY `business` (`addr_business`),
KEY `email_1` (`addr_email_1`),
KEY `email_2` (`addr_email_2`),
KEY `email_3` (`addr_email_3`)
)

```

- The database table described above and the input fields on the web forms

Troubleshooting Notes: -

Instructions must be followed precisely for proper setup of the test environment required for the tool to work. For example, if you copy the batch file to any location other than the root of C: drive it will not be able to run - VMWare can cause conflicts with MySQL so it is recommended if you have it on your laptop you uninstall it to reduce the chance of issues. - You will also have a separate installation of MySQL on your laptop related to the Capstone project. It is important you are not accessing MySQL found in this test environment (version in C:\pdrive) and there is only 1 instance of MySQL running. Thus, if having issues also check Task Manager, delete all instances of MySQL and then run batch files for the test environment to ensure you are only running 1 instance of MySQL. - If an error triggered related to “password expiration”, navigate to c:\pdrive\mysql\bin, and start the command window.

Type the command: mysql -u root

Hit enter.

In the next prompt enter the following command:

set global default_password_lifetime=0;

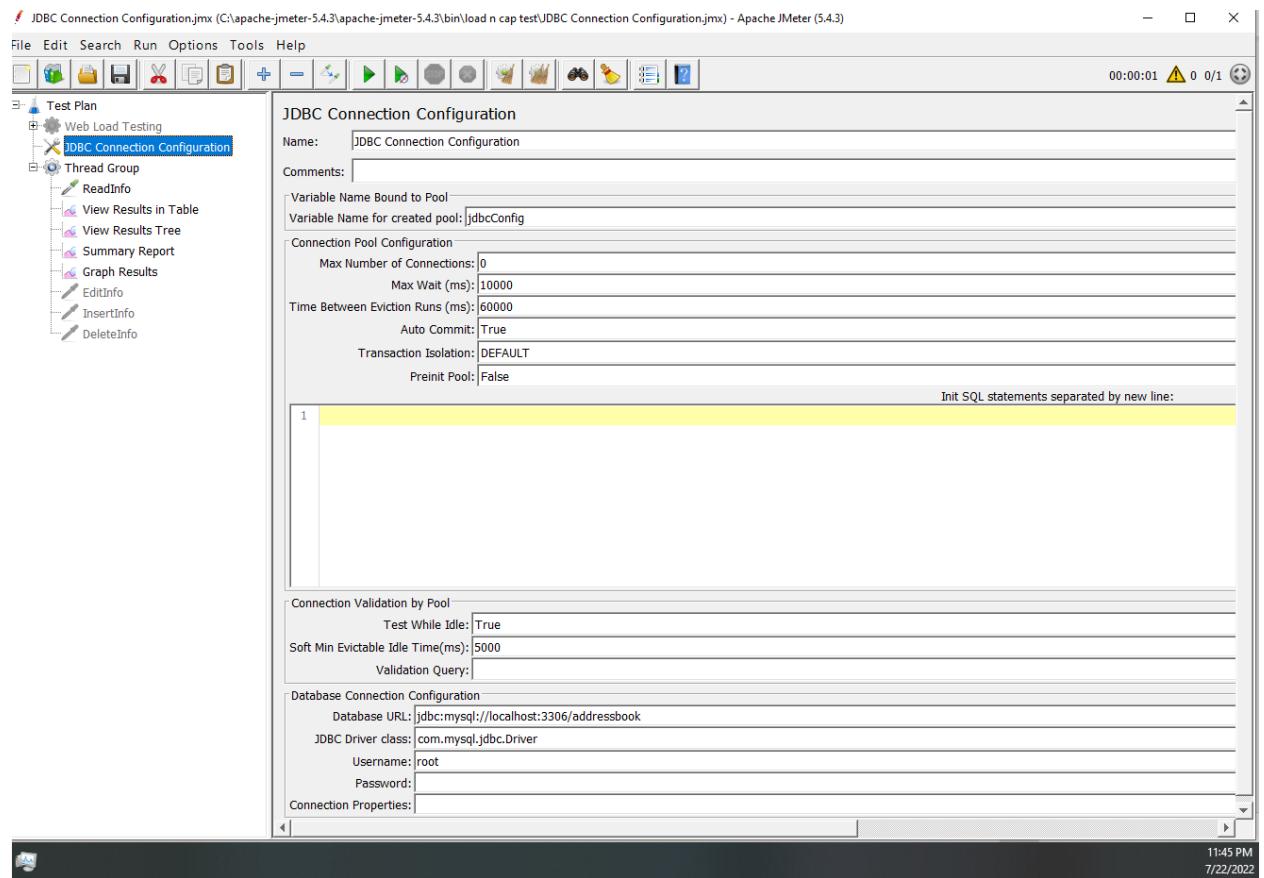
1.2 TEST PLAN

- Create a test plan. The test plan can incorporate two separate thread groups. The first approach would test the application in terms of providing http requests to the website, and the test should incorporate navigating to all the pages. You may use JMeter recording controller for this section. Please ensure to include the necessary assertions in your test.
- The second thread group can primarily focus on volume or capacity testing. Please consider impact of CRUD operations when creating your test cases (use the provided template). You may attempt to test with creating and inserting records, deleting records, selecting records from the databases etc.
- You may incorporate measuring server performance in your test plan including identifying the resource utilization.
- Execute your tests.

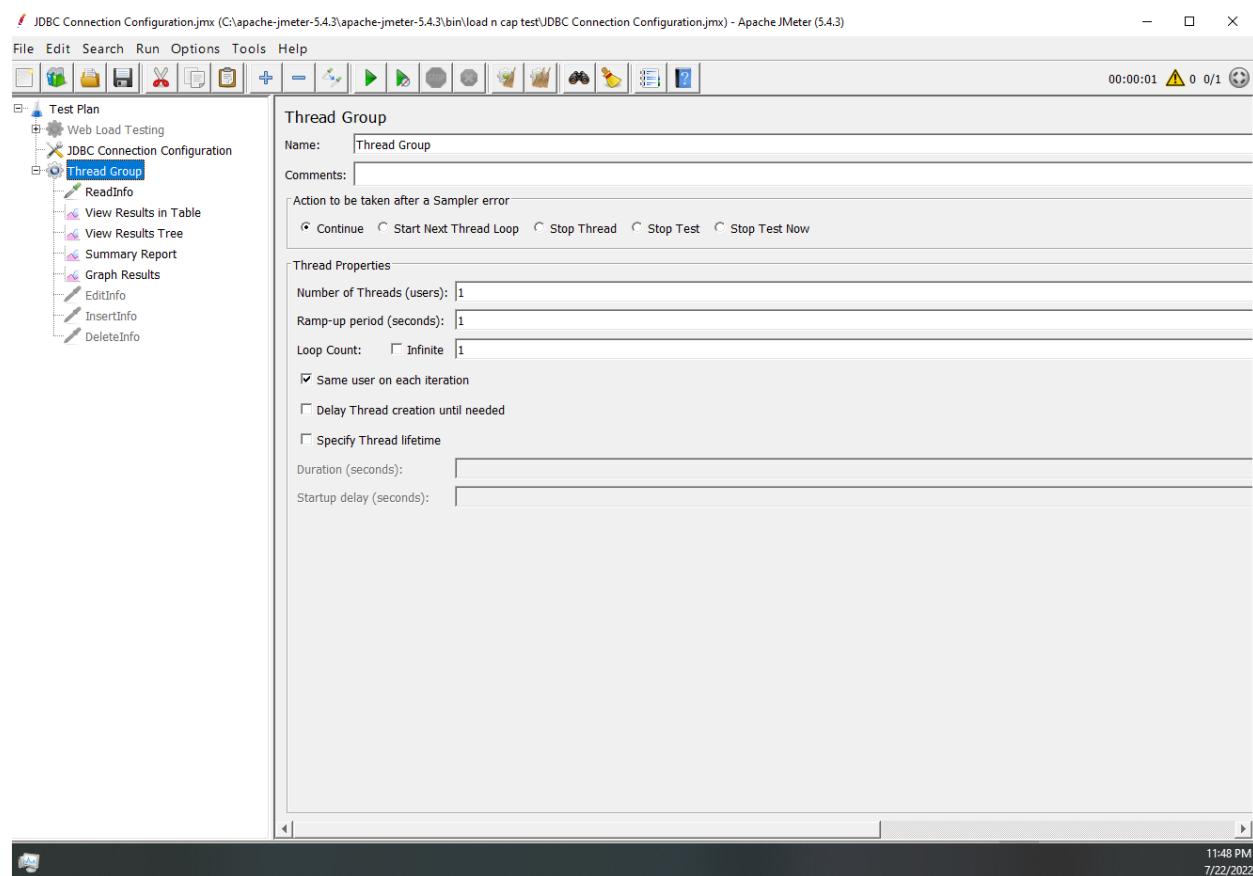
1.3 CAPACITY TEST WITH CRUD OPERATIONS

- Execute your actual test(s)
- In your actual test, you are also expected to verify the resource utilization of the server.

JDBC CONNECTION



When user is 1



JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load\cap\test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

- Web Load Testing
- JDBC Connection Configuration
- Thread Group
 - ReadInfo
 - View Results in Table
 - View Results Tree
 - Summary Report
 - Graph Results
 - EditInfo
 - InsertInfo
 - DeleteInfo

JDBC Request

Name: ReadInfo

Comments:

Variable Name Bound to Pool

Variable Name of Pool declared in JDBC Connection Configuration: jdbcConfig

SQL Query

Query Type: Select Statement

```
1 select * from addresses
```

Parameter values:

Parameter types:

Variable names: col1

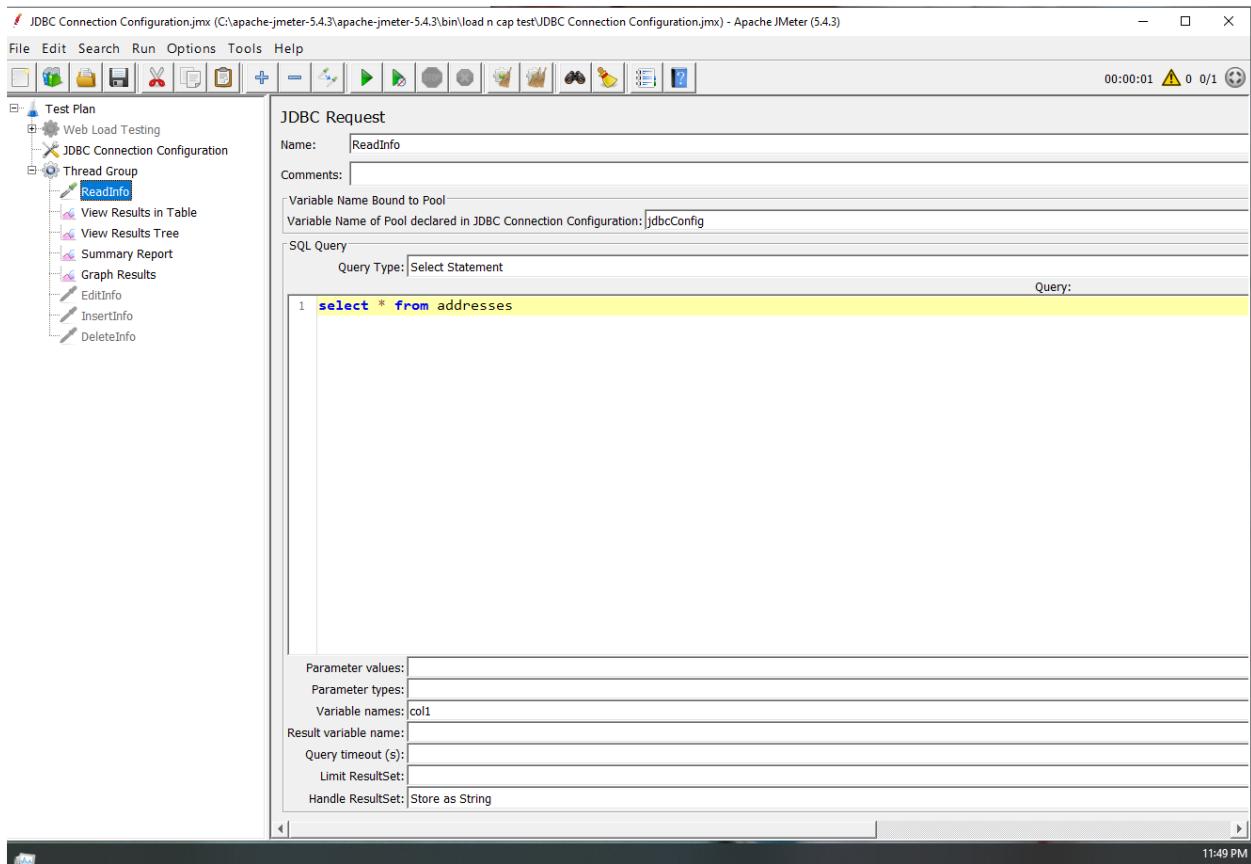
Result variable name:

Query timeout (s):

Limit ResultSet:

Handle ResultSet: Store as String

11:49 PM
7/22/2022



JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load\cap\test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

- Web Load Testing
- JDBC Connection Configuration
- Thread Group
 - ReadInfo
 - View Results in Table
 - View Results Tree
 - Summary Report
 - Graph Results
 - InsertInfo
 - EditInfo
 - DeleteInfo

JDBC Request

Name: InsertInfo

Comments:

Variable Name Bound to Pool

Variable Name of Pool declared in JDBC Connection Configuration: jdbcConfig

SQL Query

Query Type: Update Statement

```
1 INSERT INTO addresses( addr_type, addr_first_name, addr_last_name, addr_business, addr_addr_line_1,
2 addr_addr_line_2, addr_addr_line_3, addr_city, addr_region, addr_country, addr_post_code, addr_email_1,
3 addr_email_2, addr_email_3, addr_phone_1_type, addr_phone_1, addr_web_url_1,addr_web_url_2,addr_web_url_3)
4 VALUES( 'Business', 'Khaleda', 'Shunit', 'KS IT', 'Downtown', '', '', 'London', 'On', 'Canada', 'N7D 3L2',
5 'ksit@fan.ca', '', '', 'Mobile', '6472223333', 'www.ks.com', '' )
```

Parameter values:

Parameter types:

Variable names:

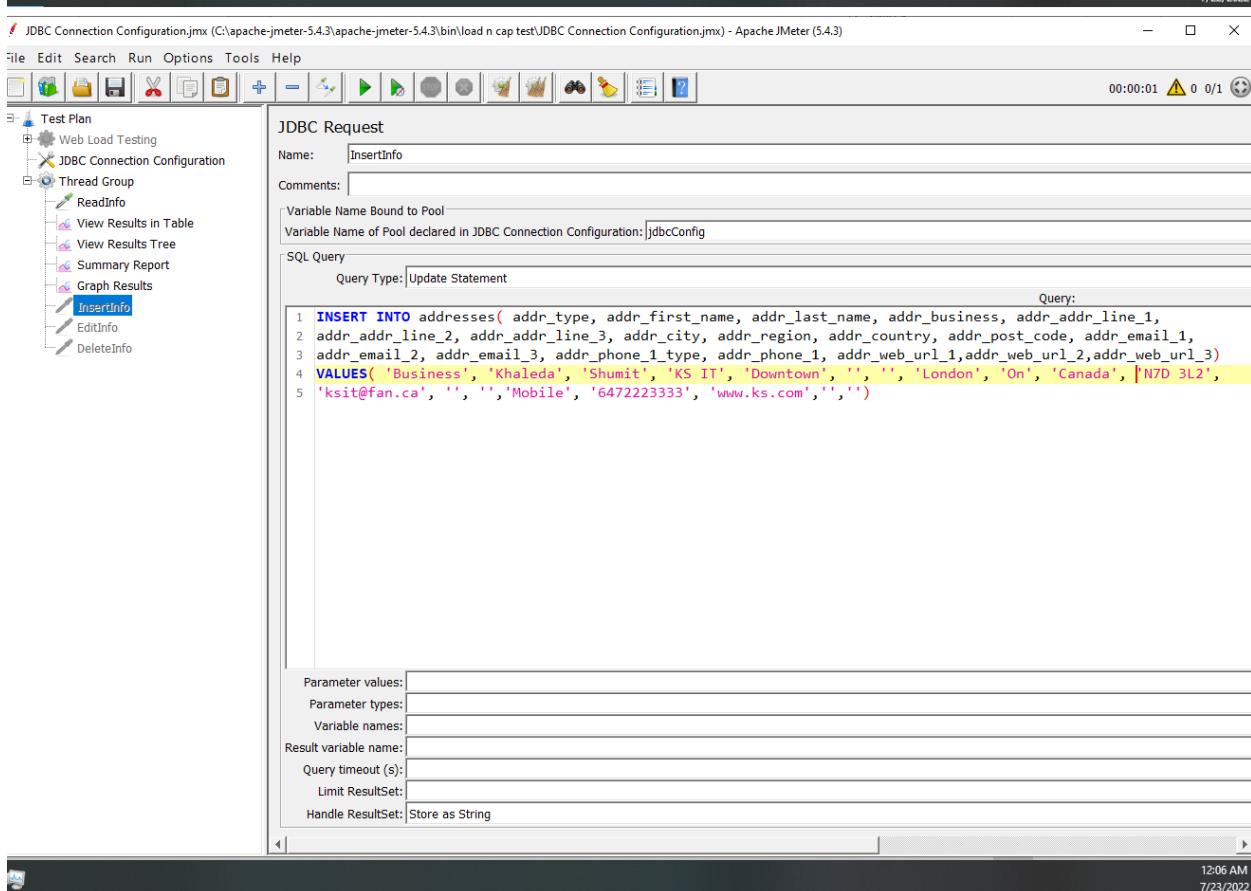
Result variable name:

Query timeout (s):

Limit ResultSet:

Handle ResultSet: Store as String

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7/23/2022



JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load\cap\test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

Web Load Testing

JDBC Connection Configuration

Thread Group

ReadInfo

View Results in Table

View Results Tree

Summary Report

Graph Results

InsertInfo

EditInfo

DeleteInfo

JDBC Request

Name: EditInfo

Comments:

Variable Name Bound to Pool

Variable Name of Pool declared in JDBC Connection Configuration: jdbcConfig

SQL Query

Query Type: Update Statement

```
1 UPDATE addresses
2 SET addr_phone_1 = '4370001111', addr_email_1 = 'khaleda@fan.ca'
3 WHERE addr_id = 371;
```

Parameter values:

Parameter types:

Variable names: col2, col3

Result variable name:

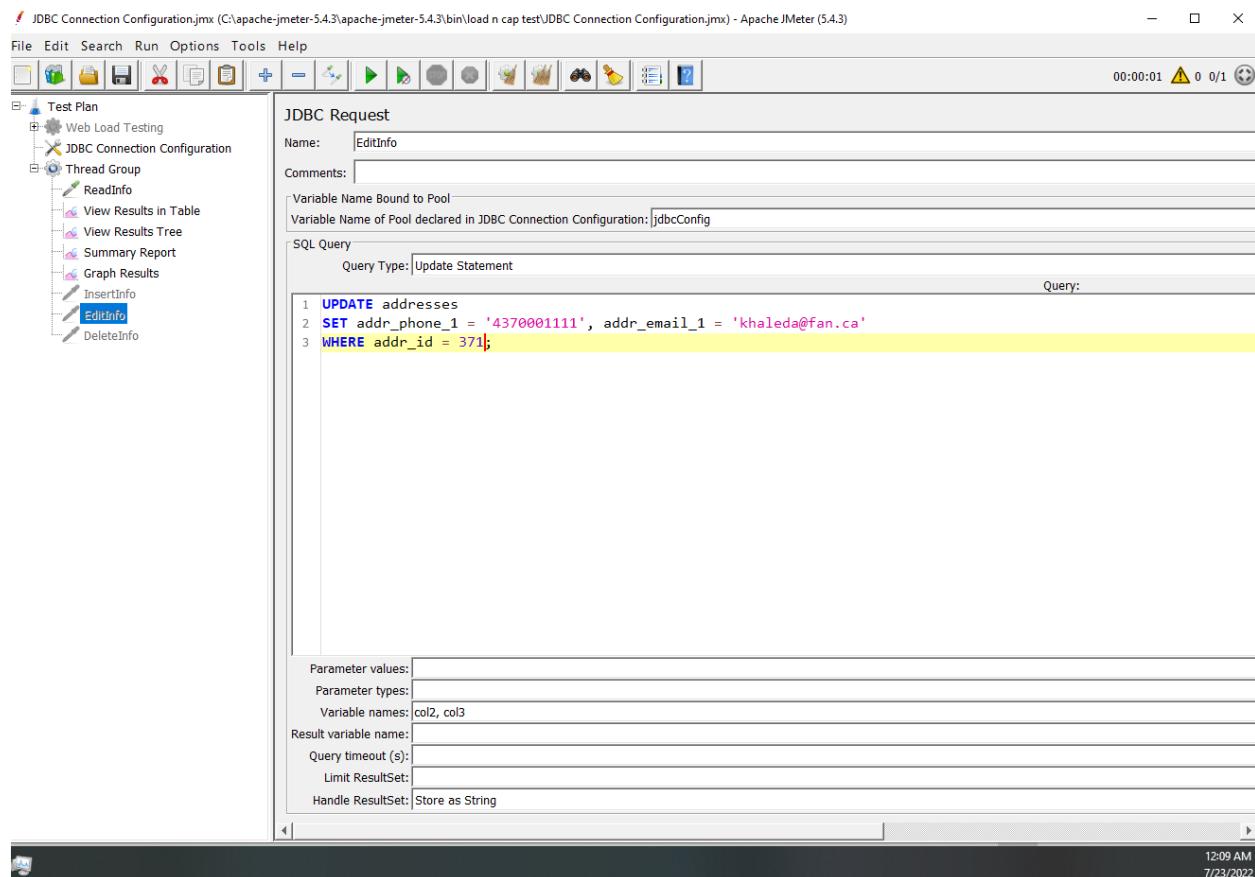
Query timeout (s):

Limit ResultSet:

Handle ResultSet: Store as String

00:00:01 0/0 1/1

12:09 AM
7/23/2022



JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load\cap\test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

Web Load Testing

JDBC Connection Configuration

Thread Group

ReadInfo

View Results in Table

View Results Tree

Summary Report

Graph Results

InsertInfo

EditInfo

DeleteInfo

JDBC Request

Name: DeleteInfo

Comments:

Variable Name Bound to Pool

Variable Name of Pool declared in JDBC Connection Configuration: jdbcConfig

SQL Query

Query Type: Update Statement

```
1 DELETE FROM addresses
2 WHERE addr_id > 375;
```

Parameter values:

Parameter types:

Variable names:

Result variable name:

Query timeout (s):

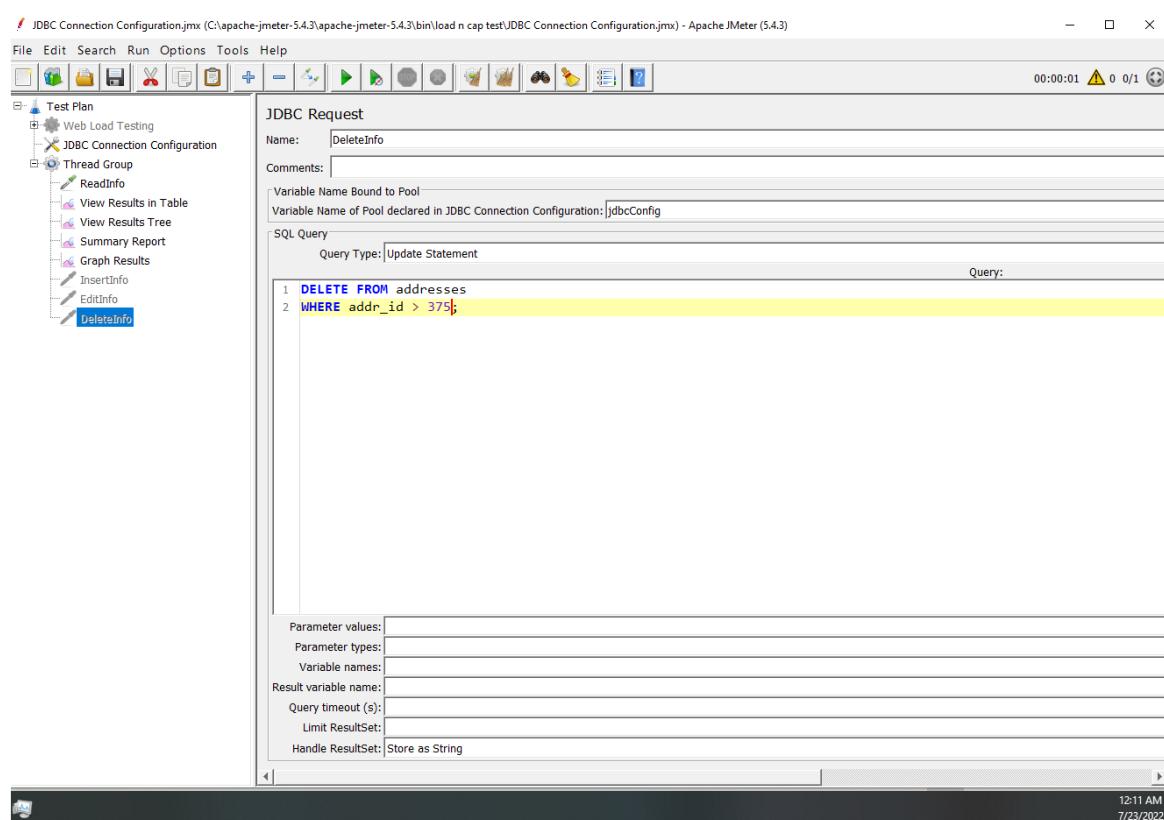
Limit ResultSet:

Handle ResultSet: Store as String

00:00:01 0/0 1/1

12:09 AM
7/23/2022

12:11 AM
7/23/2022



Read by 1 user

Checking the application

- [List All Entries](#)

Address Book - All Entries

Type	Name	City	Actions
Business	Shumit, Khaleda		View Details Edit Details
Business	Shumit, Khaleda		View Details Edit Details
Business	Shumit, Khaleda		View Details Edit Details
Friend	Clerkson, Mike		View Details Edit Details
Friend	Clerkson, Mike		View Details Edit Details

[Return to Menu](#)

JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load n cap test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

00:00:01 ⚠ 0 0/1

Test Plan

Web Load Testing

JDBC Connection Configuration

Thread Group

ReadInfo

View Results in Table

View Results Tree

Summary Report

Graph Results

InsertInfo

EditInfo

DeleteInfo

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename:

Search: Case sensitive Regular exp. Search Reset

Text Sampler result Request Response data

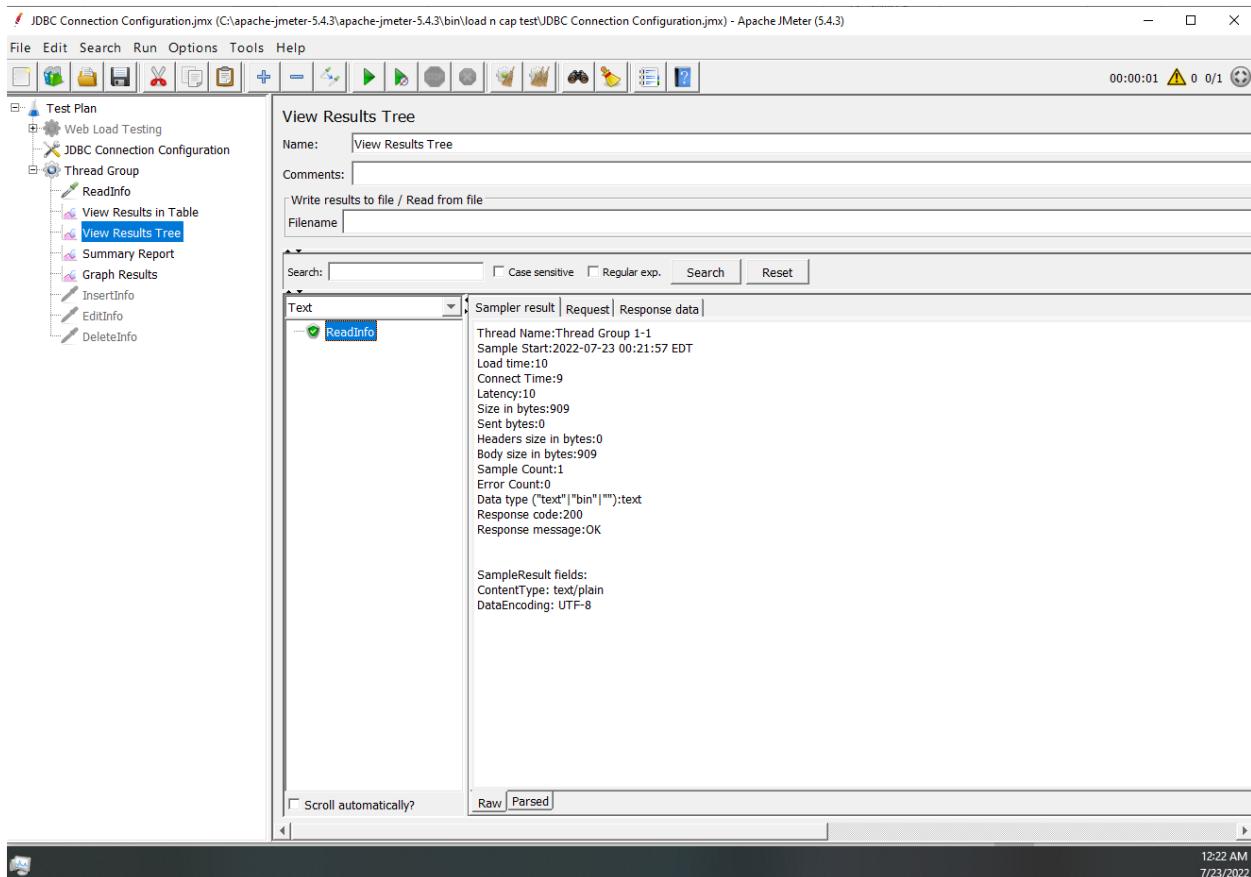
ReadInfo

Thread Name: Thread Group 1-1
Sample Start: 2022-07-23 00:21:57 EDT
Load time: 10
Connect Time: 9
Latency: 10
Size in bytes: 909
Sent bytes: 0
Headers size in bytes: 0
Body size in bytes: 909
Sample Count: 1
Error Count: 0
Data type ("text"|"bin"|""); text
Response code: 200
Response message: OK

SampleResult fields:
Content-Type: text/plain
DataEncoding: UTF-8

Scroll automatically? Raw Parsed

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7/23/2022



Sample result

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename:

Search: Case sensitive Regular exp. Search Reset

Text Sampler result Request Response data

ReadInfo

Response Body Response headers

```
1 shared:false, driver:com.mysql.jdbc.Driver, url:jdbc:mysql://localhost:3306/addressbook, user:root
```

Response data

View Results in Table

Name:

Comments:

Write results to file / Read from file
Filename:

Browse... Log/Display Only: Errors Successes Configure

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	00:38:54.276	Thread Group 1-1	ReadInfo	9		1044	0	9	

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View Results Tree

Name:

Comments:

Write results to file / Read from file
Filename:

Browse... Log/Display Only: Errors Successes Configure

Search: Case sensitive Regular exp.

Text: Sampler result Request Response data Response Body Response headers

addr_id addr_type addr_first_name addr_last_name addr_business addr_addr_line_1 addr_addr_line_2 addr_addr_line_3 addr_city addr_region addr_country addr_post_code addr_web_url_1 addr_web_url_2

3	Business	Khaleda	Shumit	London, On	www.ks.com	Canada	N7D 3L2	kh@fan.ca	Mobile	+437	Home
371	Business	Home	Shumit	London, On	www.ks.com	Canada	N7D 3L2	kh@fan.ca	Mobile	+437	Home
372	Business	Khaleda	Shumit	London, On	www.ks.com	Canada	N7D 3L2	kh@fan.ca	Mobile	+437	Home
373	Business	Khaleda	Shumit	London, On	www.ks.com	Canada	N7D 3L2	kh@fan.ca	Mobile	+437	Home
374	Friend	Mike	Clerkson	London, On	www.mike.com	Canada	N7D 3L2	mike@fan.ca	Mobile	6473301111	Home Fax
375	Friend	Mike	Clerkson	London, On	www.mike.com	Canada	N7D 3L2	mike@fan.ca	Mobile	6473301111	Home Fax

Home Fax

Scroll automatically?

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JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load n cap test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

00:00:01 0 0/1

Test Plan JDBC Connection G Thread Group ReadInfo View Results in Tree Summary Report Graph Results InsertInfo EditInfo DeleteInfo

Name:

Comments:

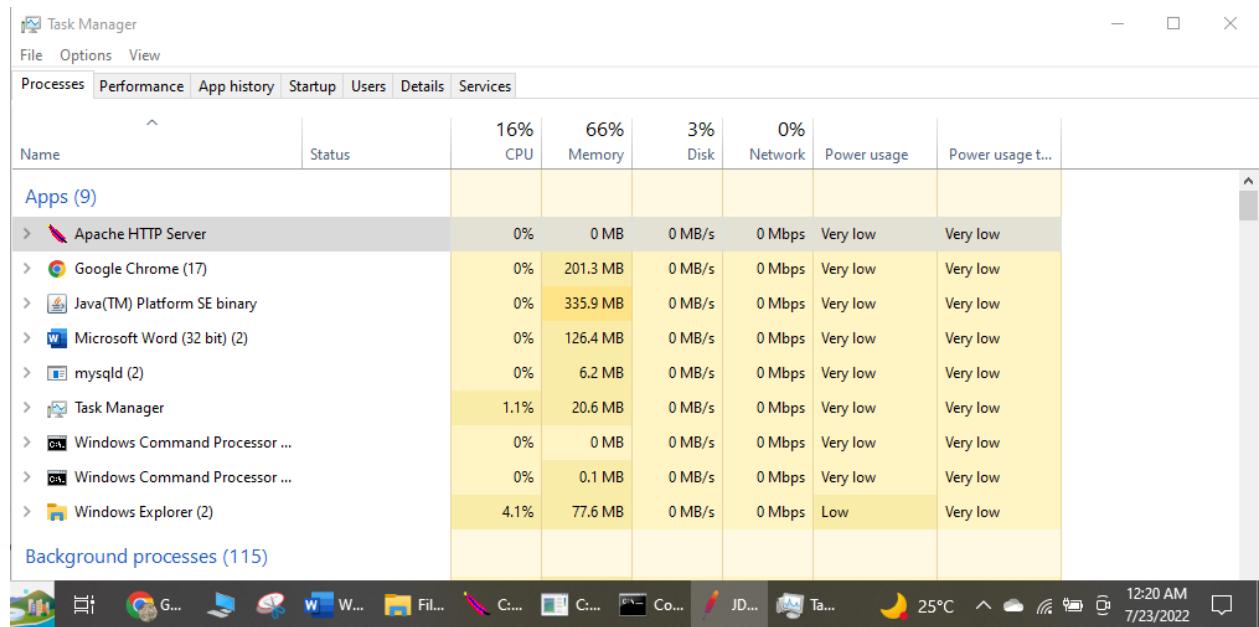
Write results to file / Read from file
Filename:

Browse... Log/Display Only: Errors Successes Configure

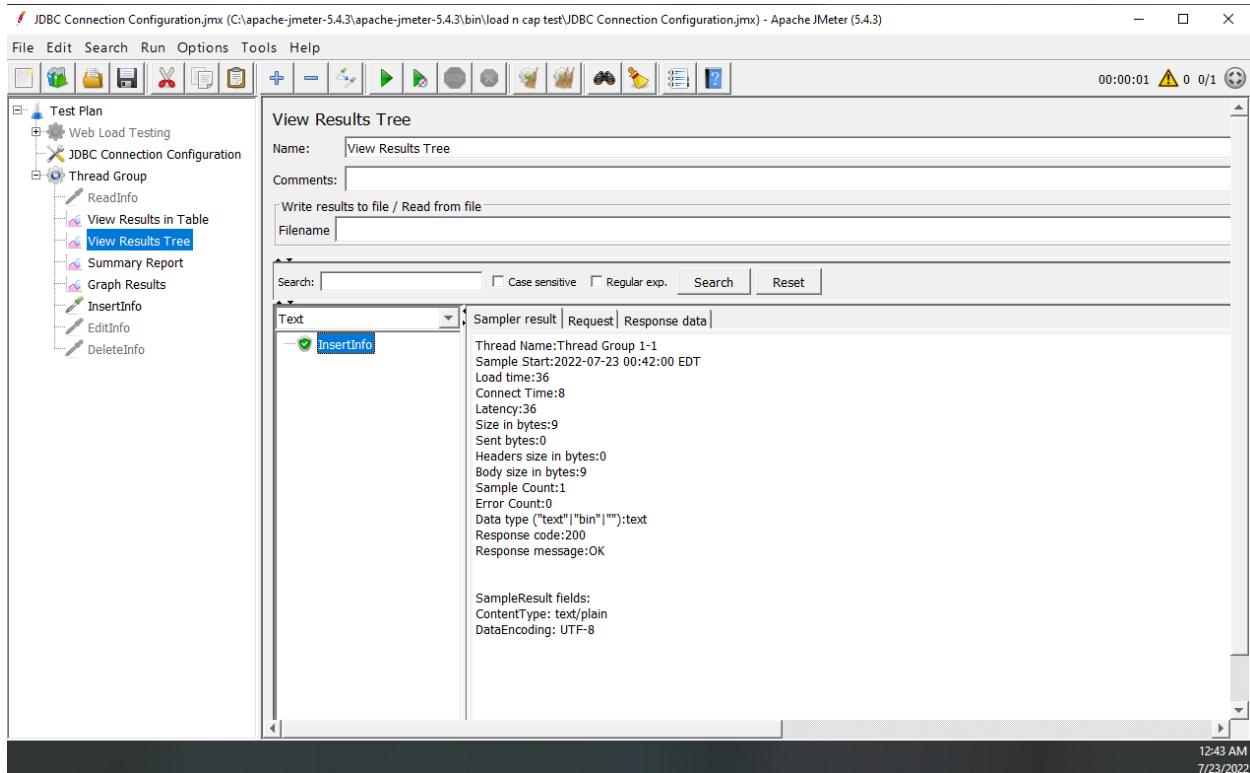
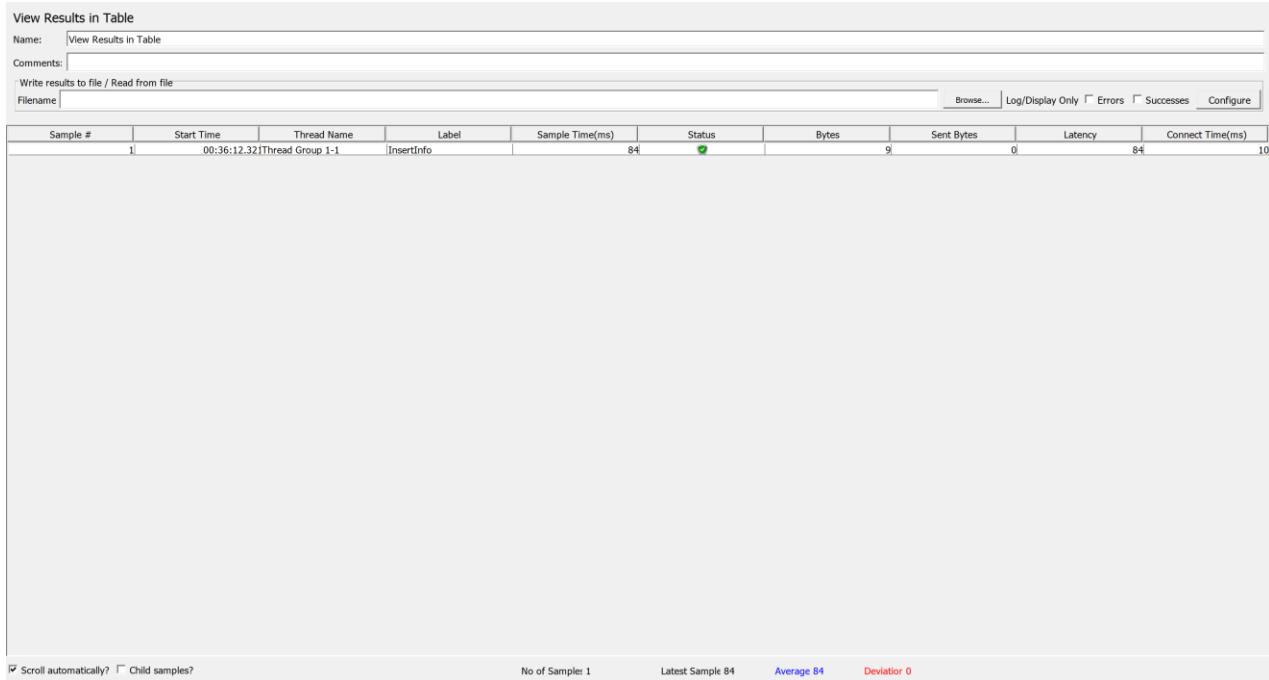
Label # Samples Average Min Max Std. Dev. Error % Throughput Received KB/sec Sent KB/sec Avg. Bytes

ReadInfo	1	10	10	10	0.00	0.00%	100.0/sec	88.77	0.00	909.0
TOTAL	1	10	10	10	0.00	0.00%	100.0/sec	88.77	0.00	909.0

12:34 AM 7/23/2022



Insert by 1 user



JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load n cap test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

00:00:01

Test Plan

- + Web Load Testing
- + JDBC Connection Configuration
- Thread Group
 - ReadInfo
 - View Results in Table
 - View Results Tree**
 - Summary Report
 - Graph Results
 - InsertInfo
 - EditInfo
 - DeleteInfo

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename:

Search: Case sensitive Regular exp.

Text

Sampler result | Request | Response data |
 Response Body | Response headers |

InsertInfo

1 updates

12:44 AM
7/23/2022

Task Manager

File Options View

Processes Performance App history Startup Users Details Services

Name	Status	13% CPU	68% Memory	19% Disk	0% Network	Power usage	Power usage t...
Apache HTTP Server		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
Google Chrome (17)		0%	184.6 MB	0.1 MB/s	0 Mbps	Very low	Very low
Java(TM) Platform SE binary		0%	545.8 MB	0.2 MB/s	0 Mbps	Very low	Very low
Microsoft Word (32 bit) (2)		0%	136.4 MB	0 MB/s	0 Mbps	Very low	Very low
mysqld (2)		0.2%	6.5 MB	0.1 MB/s	0 Mbps	Very low	Very low
Snipping Tool		0%	2.9 MB	0 MB/s	0 Mbps	Very low	Very low
Task Manager		0.8%	20.7 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Explorer (2)		0.5%	81.6 MB	0 MB/s	0 Mbps	Very low	Very low

12:42 AM
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Update with 1 user

View Results in Table

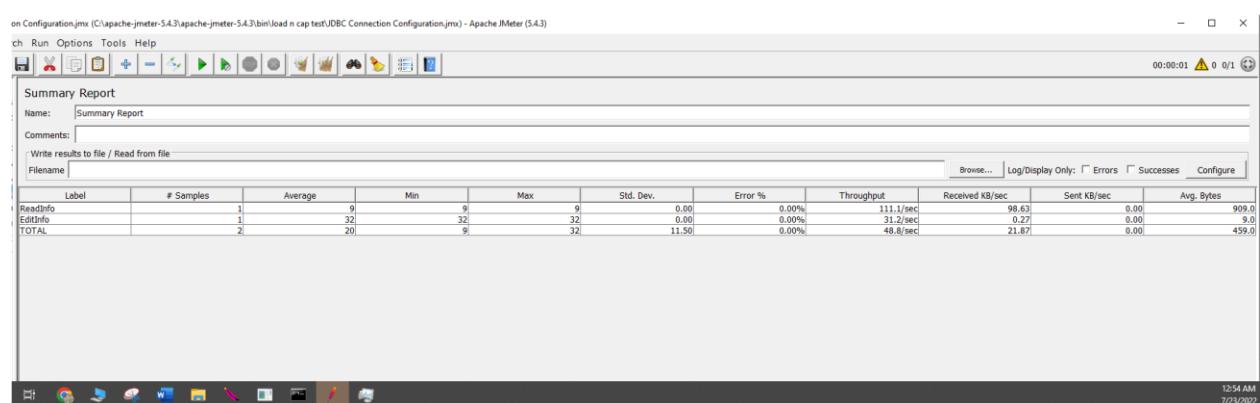
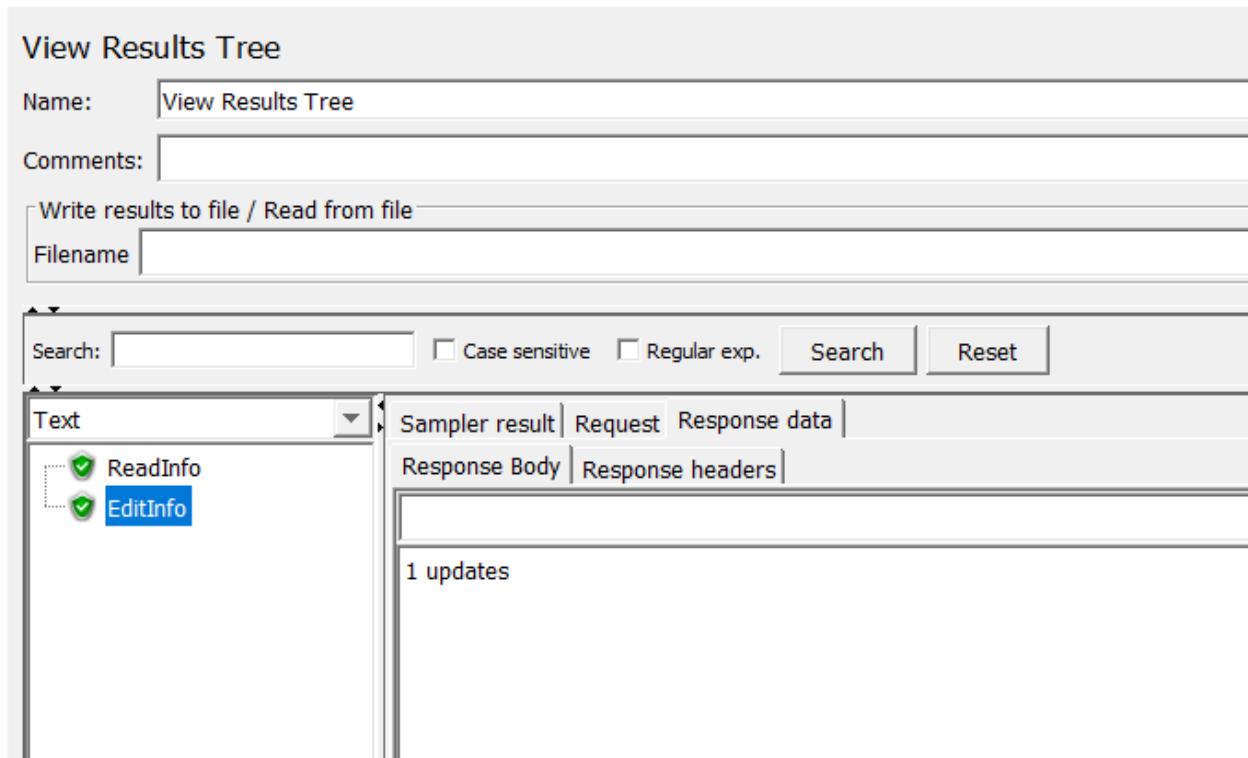
Name: View Results in Table

Comments:

Write results to file / Read from file

Filename:

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	La
1	00:50:40.052	Thread Group 1-1	ReadInfo	9	✓	909	0	
2	00:50:40.061	Thread Group 1-1	EditInfo	32	✓	9	0	



JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\loadn cap\test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

00:00:01 0/1

Test Plan JDBC Thread Group View Results Tree

Name: View Results Tree
Comments:
Write results to file / Read from file
Filename:

Search: Case sensitive Regular exp. Search Reset

Text Sampler result Request Response data Response Body Response headers

Reedit

addr_id	addr_type	addr_first_name	addr_last_name	addr_business	addr_addr_line_1	addr_addr_line_2	addr_addr_line_3	addr_city	addr_region	addr_country	addr_post_code	addr_web_url_1	addr_web_url_2	addr_web_url_3
371	Business	Khaleda	Shunit		London, On				Canada	N7D 3L2	kh@fan.ca		Mobile	4370001111
372	Business	Khaleda	Shunit		London, On				Canada	N7D 3L2	kh@fan.ca		Mobile	+437
373	Business	Khaleda	Shunit		www.ks.com	London, On			Canada	N7D 3L2	kh@fan.ca		Mobile	+437
374	Friend	Mike	Clerkson		www.mike.com	London, On			Canada	N7D 3L2	mike@fan.ca		Mobile	6473301111
375	Friend	Mike	Clerkson		Home Fax	London, On			Canada	N7D 3L2	mike@fan.ca		Mobile	6473301111
					www.mike.com									Home Fax

Find Case sensitive Regular exp.

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Task Manager

File Options View

Processes Performance App history Startup Users Details Services

Name	Status	16% CPU	70% Memory	15% Disk	0% Network	Power usage	Power usage t...
Apps (9)							
> Apache HTTP Server		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Google Chrome (17)		1.4%	237.2 MB	0.1 MB/s	0 Mbps	Very low	Very low
> Java(TM) Platform SE binary		0%	535.2 MB	0 MB/s	0 Mbps	Very low	Very low
> Microsoft Word (32 bit) (2)		0%	147.4 MB	0 MB/s	0 Mbps	Very low	Very low
> mysqld (2)		0%	7.5 MB	0.1 MB/s	0 Mbps	Very low	Very low
> Task Manager		1.1%	20.5 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Explorer (2)		0.4%	81.6 MB	0.1 MB/s	0 Mbps	Very low	Very low
Background processes (112)							

12:50 AM 7/23/2022

Delete by 1 user

The screenshot shows the Apache JMeter interface with a Test Plan containing a Thread Group. The Thread Group has a JDBC Request sampler named "DeleteInfo". The JDBC Request configuration includes:

- Name: DeleteInfo
- Comments: Variable Name Bound to Pool
- Variable Name of Pool declared in JDBC Connection Configuration: jdbcConfig
- SQL Query: Query Type: Update Statement
1 DELETE FROM addresses
2 WHERE addr_id = 375;
- Parameter values: [empty]
- Parameter types: [empty]
- Variable names: [empty]
- Result variable name: [empty]
- Query timeout (s): [empty]
- Limit ResultSet: [empty]
- Handle ResultSet: Store as String

Bottom right corner shows the date and time: 11:29 AM 7/23/2022.

Read from table, after deleting id=375 shows the whole raw is deleted

The screenshot shows the Apache JMeter View Results Tree configuration and its output.

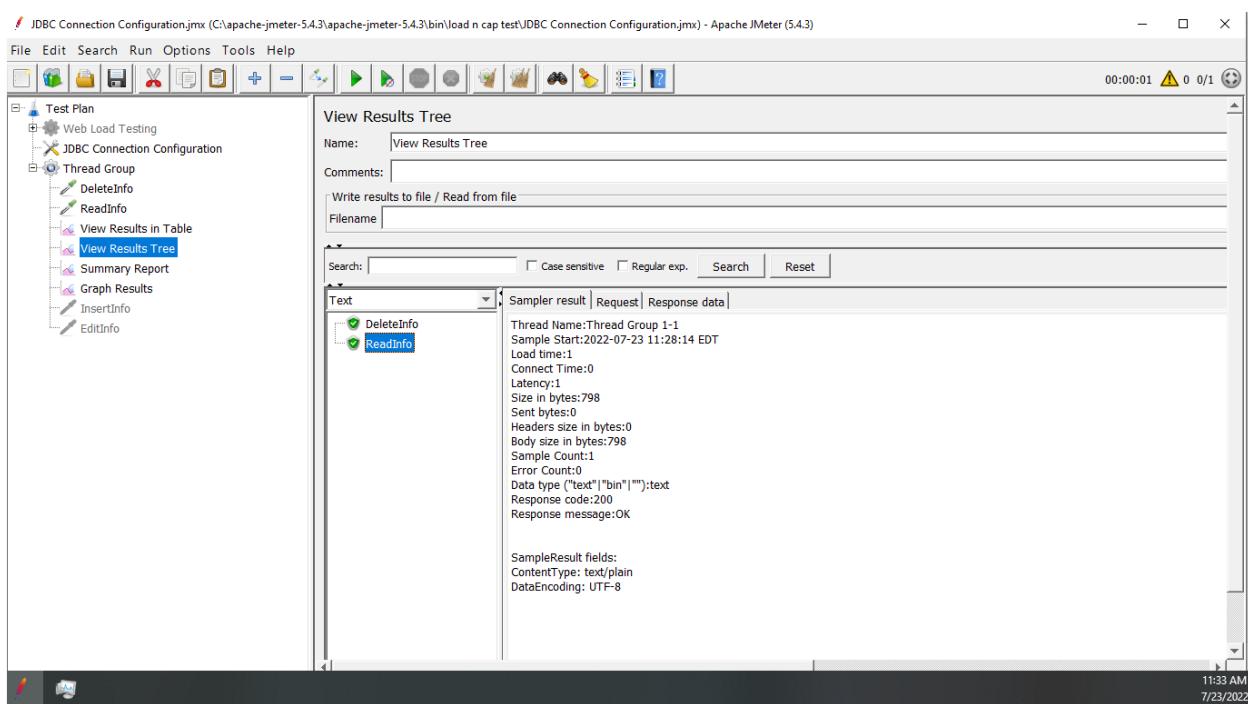
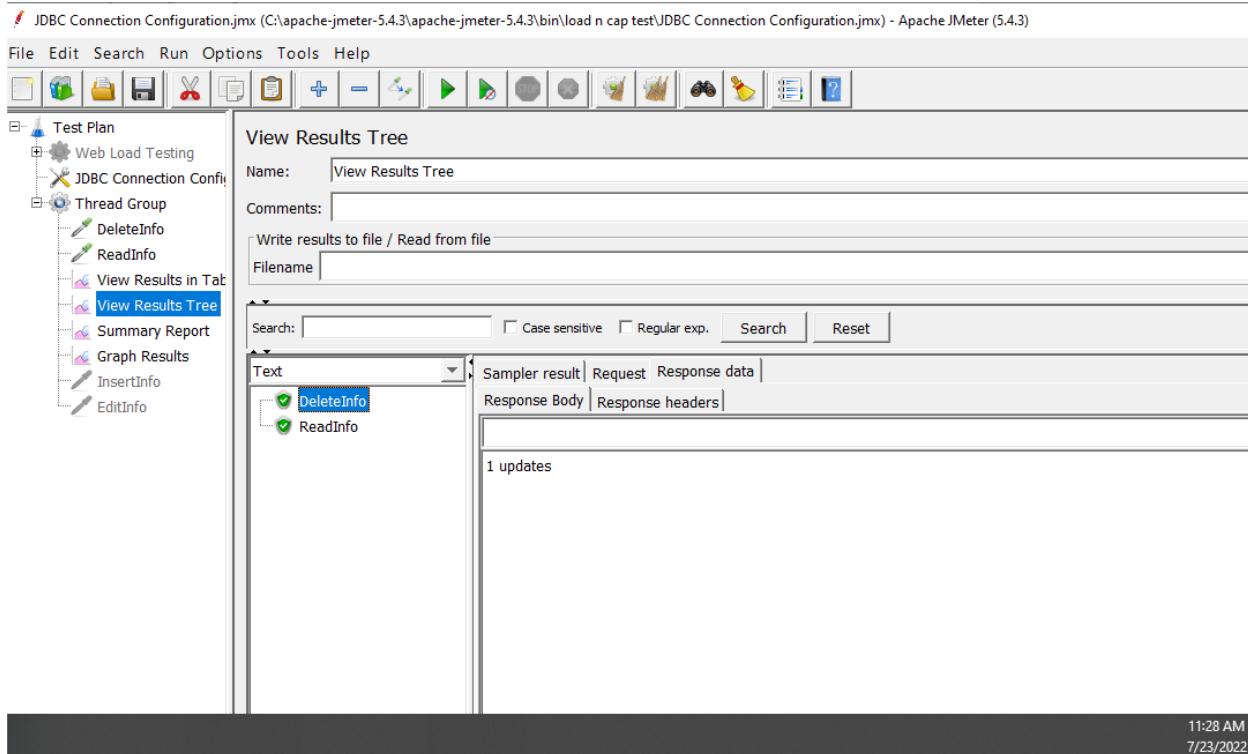
View Results Tree Configuration:

- Name: View Results Tree
- Comments: [empty]
- Write results to file / Read from file
- Filename: [empty]

Output (Sampler result):

addr_id	addr_type	addr_first_name	addr_last_name	addr_business	addr_addr_line_1
		addr_email_1	addr_email_2	addr_email_3	addr_phone_1_type
3					
371	Business	Khaleda	Shumit		London, On
	Home		Home		www.ks.com
372	Business	Khaleda	Shumit		London, On
			Home		www.ks.com
373	Business	Khaleda	Shumit		London,On
			Home		www.ks.com
374	Friend	Mike	Clerkson		London,On
			Home Fax		www.mike.com

Bottom right corner shows the date and time: 11:30 AM 7/23/2022.



Summary Report

Name:

Comments:

Write results to file / Read from file

[Browse...](#) Log/Display Only: Errors Successes [Configure](#)

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
DeleteInfo	1	65	65	65	0.00	0.00%	15.4/sec	0.14	0.00	9.1
ReadInfo	1	1	1	1	0.00	0.00%	1000.0/sec	779.30	0.00	798.0
TOTAL	2	33	1	65	32.00	0.00%	30.3/sec	11.94	0.00	403.5

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7/23/2022

JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load\run\cap\test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

00:00:01 ! 0 0/1

Test Plan

- Web Load Testing
- JDBC Connection Configuration
- Thread Group
 - DeleteInfo
 - ReadInfo
 - View Results In Table**
- View Results Tree
- Summary Report
- Graph Results
- InsertInfo
- EditInfo

View Results In Table

Name:

Comments:

Write results to file / Read from file

[Browse...](#) Log/Display Only: Errors Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Conn
1	11:28:14.134	Thread Group 1-1	DeleteInfo	65	OK	9	0	65	1
2	11:28:14.199	Thread Group 1-1	ReadInfo	1	OK	798	0	0	1

11:35 AM
7/23/2022

Task Manager

File Options View

Processes Performance App history Startup Users Details Services

Name	Status	16% CPU	75% Memory	5% Disk	0% Network	Power usage	Power usage t...
Apps (10)							
> Apache HTTP Server		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Google Chrome (18)		0.5%	288.0 MB	0 MB/s	0 Mbps	Very low	Very low
> Java(TM) Platform SE binary		0%	709.7 MB	0 MB/s	0 Mbps	Very low	Very low
> Microsoft Word (32 bit) (2)		0%	165.3 MB	0 MB/s	0 Mbps	Very low	Very low
> mysql (2)		0%	4.5 MB	0 MB/s	0 Mbps	Very low	Very low
> Snipping Tool		1.4%	2.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Task Manager		0.8%	20.5 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0.5 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Explorer (2)		1.2%	82.4 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (111)							
> 64-bit Synaptics Pointing Enhanc...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Adobe Acrobat Update Service (...)		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low

Fewer details End task

11:36 AM
7/23/2022

50 users

Read from table with 50 users

View Results in Table										
Name:	View Results in Table									
Comments:										
Write results to file / Read from file										
Filename										
								Browse...	Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes	
Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect	
26	11:40:07.641	Thread Group 1-26	ReadInfo	7	✓	798	0	7		
27	11:40:07.656	Thread Group 1-27	ReadInfo	7	✓	798	0	7		
28	11:40:07.710	Thread Group 1-28	ReadInfo	7	✓	798	0	7		
29	11:40:07.726	Thread Group 1-29	ReadInfo	6	✓	798	0	6		
30	11:40:07.741	Thread Group 1-30	ReadInfo	8	✓	798	0	8		
31	11:40:07.773	Thread Group 1-31	ReadInfo	7	✓	798	0	7		
32	11:40:07.781	Thread Group 1-32	ReadInfo	8	✓	798	0	8		
33	11:40:07.806	Thread Group 1-33	ReadInfo	8	✓	798	0	8		
34	11:40:07.811	Thread Group 1-34	ReadInfo	8	✓	798	0	8		
35	11:40:07.833	Thread Group 1-35	ReadInfo	7	✓	798	0	7		
36	11:40:07.864	Thread Group 1-36	ReadInfo	7	✓	798	0	7		
37	11:40:07.864	Thread Group 1-38	ReadInfo	7	✓	798	0	7		
38	11:40:07.895	Thread Group 1-37	ReadInfo	7	✓	798	0	7		
39	11:40:08.000	Thread Group 1-39	ReadInfo	8	✓	798	0	8		
40	11:40:07.940	Thread Group 1-40	ReadInfo	8	✓	798	0	8		
41	11:40:07.956	Thread Group 1-43	ReadInfo	7	✓	798	0	7		
42	11:40:07.972	Thread Group 1-41	ReadInfo	7	✓	798	0	7		
43	11:40:07.987	Thread Group 1-42	ReadInfo	7	✓	798	0	7		
44	11:40:08.034	Thread Group 1-44	ReadInfo	8	✓	798	0	8		
45	11:40:08.057	Thread Group 1-45	ReadInfo	7	✓	798	0	7		
46	11:40:08.082	Thread Group 1-46	ReadInfo	8	✓	798	0	7		
47	11:40:08.088	Thread Group 1-47	ReadInfo	7	✓	798	0	7		
48	11:40:08.104	Thread Group 1-48	ReadInfo	7	✓	798	0	7		
49	11:40:08.135	Thread Group 1-49	ReadInfo	8	✓	798	0	8		
50	11:40:08.151	Thread Group 1-50	ReadInfo	7	✓	798	0	7		

Summary Report										
Name:	Summary Report									
Comments:										
Write results to file / Read from file										
Filename										
								Browse...	Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes	Configure
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
ReadInfo	50	8	6	33	5.04	0.00%	48.0/sec	37.43	0.00	798
TOTAL	50	8	6	33	5.04	0.00%	48.0/sec	37.43	0.00	798

Name	Status	21% CPU	67% Memory	8% Disk	0% Network	Power usage	Power usage t...
Apps (9)							
Apache HTTP Server		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Google Chrome (18)		0%	223.6 MB	0 MB/s	0 Mbps	Very low	Very low
Java(TM) Platform SE binary		4.7%	403.3 MB	0.1 MB/s	0 Mbps	Low	Very low
Microsoft Word (32 bit) (2)		0%	163.7 MB	0 MB/s	0 Mbps	Very low	Very low
mysqld (2)		1.1%	18.7 MB	0.1 MB/s	0 Mbps	Very low	Very low
Task Manager		1.5%	20.6 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...		0%	0.3 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Explorer (2)		0.9%	68.9 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (113)							
64-bit Synaptics Pointing Enhanc...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
Adobe Acrobat Update Service (...)		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Adobe Collaboration Synchroni...		0%	1.8 MB	0 MB/s	0 Mbps	Very low	Very low

or

Name	Status	16% CPU	68% Memory	10% Disk	0% Network	Power usage	Power usage t...
<h3>Apps (9)</h3>							
>  Apache HTTP Server		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
>  Google Chrome (18)		0.4%	181.6 MB	0.1 MB/s	0 Mbps	Very low	Very low
>  Java(TM) Platform SE binary		0.4%	387.3 MB	0.1 MB/s	0 Mbps	Very low	Very low
>  Microsoft Word (32 bit) (2)		0%	121.5 MB	0 MB/s	0 Mbps	Very low	Very low
>  mysqld (2)		0%	25.7 MB	0 MB/s	0 Mbps	Very low	Very low
>  Task Manager		1.9%	20.9 MB	0 MB/s	0 Mbps	Very low	Very low
>  Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
>  Windows Command Processor ...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
>  Windows Explorer (2)		1.2%	74.5 MB	0 MB/s	0 Mbps	Very low	Very low
<h3>Background processes (115)</h3>							
>  64-bit Synaptics Pointing Enhancer...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
>  Adobe Acrobat Update Service (...)		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
>  Adobe Collaboration Synchronizer...		0%	1.9 MB	0 MB/s	0 Mbps	Very low	Very low

Create / Insert into table with 50 users

View Results Tree

Name: View Results Tree
Comments:
Write results to file / Read from file
Filename:

Search: Case sensitive Regular exp.

Text Sampler result Request Response data

Thread Name: Thread Group 1-1
Sample Start: 2022-07-23 11:59:21 EDT
Load time: 79
Connect Time: 13
Latency: 78
Size in bytes: 9
Sent bytes: 0
Header size in bytes: 0
Body size in bytes: 9
Sample Count: 1
Error Count: 0
Data type ("text"|"bin"|""): text
Response code: 200
Response message: OK

SampleResult fields:
Content-Type: text/plain
DataEncoding: UTF-8

12:01 PM
7/23/2022

View Results in Table

Name: View Results in Table
Comments:
Write results to file / Read from file
Filename:

Browse... Log/Display Only: Errors

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency
26	11:59:21.850	Thread Group 1-27	InsertInfo	66	✓	9	0	66
27	11:59:21.887	Thread Group 1-26	InsertInfo	89	✓	9	0	83
28	11:59:21.984	Thread Group 1-28	InsertInfo	69	✓	9	0	68
29	11:59:21.990	Thread Group 1-29	InsertInfo	52	✓	9	0	52
30	11:59:21.915	Thread Group 1-30	InsertInfo	72	✓	9	0	72
31	11:59:21.953	Thread Group 1-31	InsertInfo	65	✓	9	0	65
32	11:59:21.953	Thread Group 1-32	InsertInfo	67	✓	9	0	67
33	11:59:22.000	Thread Group 1-34	InsertInfo	52	✓	9	0	52
34	11:59:21.985	Thread Group 1-33	InsertInfo	68	✓	9	0	68
35	11:59:22.032	Thread Group 1-36	InsertInfo	53	✓	9	0	53
36	11:59:22.040	Thread Group 1-35	InsertInfo	69	✓	9	0	69
37	11:59:22.040	Thread Group 1-37	InsertInfo	56	✓	9	0	56
38	11:59:22.092	Thread Group 1-38	InsertInfo	67	✓	9	0	67
39	11:59:22.092	Thread Group 1-39	InsertInfo	68	✓	9	0	68
40	11:59:22.138	Thread Group 1-41	InsertInfo	55	✓	9	0	55
41	11:59:22.123	Thread Group 1-40	InsertInfo	71	✓	9	0	71
42	11:59:22.185	Thread Group 1-43	InsertInfo	41	✓	9	0	41
43	11:59:22.154	Thread Group 1-42	InsertInfo	72	✓	9	0	72
44	11:59:22.214	Thread Group 1-45	InsertInfo	46	✓	9	0	46
45	11:59:22.214	Thread Group 1-49	InsertInfo	46	✓	9	0	46
46	11:59:22.220	Thread Group 1-46	InsertInfo	49	✓	9	0	46
47	11:59:22.277	Thread Group 1-48	InsertInfo	50	✓	9	0	50
48	11:59:22.261	Thread Group 1-47	InsertInfo	67	✓	9	0	67
49	11:59:22.292	Thread Group 1-49	InsertInfo	102	✓	9	0	102
50	11:59:22.330	Thread Group 1-50	InsertInfo	96	✓	9	0	96

12:02 PM
7/23/2022

Summary Report

Name: Summary Report
Comments:
Write results to file / Read from file
Filename:

Browse... Log/Display Only: Errors

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec
InsertInfo	50	65	41	116	17.21	0.00%	45.7/sec	0.40	
TOTAL	50	65	41	116	17.21	0.00%	45.7/sec	0.40	

Include group name in label Save Table Data Save Table Header

12:02 PM
7/23/2022

Previous id was 377, now (377+50)= 427

View Results Tree																																																																																																																																																																																																																																																												
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Text	<input type="checkbox"/> Sampler result <input type="checkbox"/> Request <input type="checkbox"/> Response data <input type="checkbox"/> Response Body <input type="checkbox"/> Response headers																																																																																																																																																																																																																																																											
InsertInfo	<table border="1"> <tr><td>411</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>412</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>413</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>414</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>415</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>416</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>417</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>418</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>419</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>420</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>421</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>422</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>423</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>424</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>425</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>426</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> <tr><td>427</td><td>Business</td><td>Khaleda</td><td>Shumit</td><td>KS IT</td><td>Downtown</td><td>London</td><td>On</td><td>Canada</td><td>M7D 3L2</td><td>kst@fan.ca</td><td>Mobile</td><td>6472233333</td><td>null</td></tr> </table>														411	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	M7D 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Edit by 50 users

JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load n cap test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

- Web Load Testing
- JDBC Connection Configuration
- Thread Group
 - DeleteInfo
 - ReadInfo
 - View Results in Table
 - View Results Tree
 - Summary Report
 - Graph Results
 - InsertInfo
 - EditInfo**

JDBC Request

Name: EditInfo

Comments:

Variable Name Bound to Pool: jdbcConfig

SQL Query

Query Type: Update Statement

```

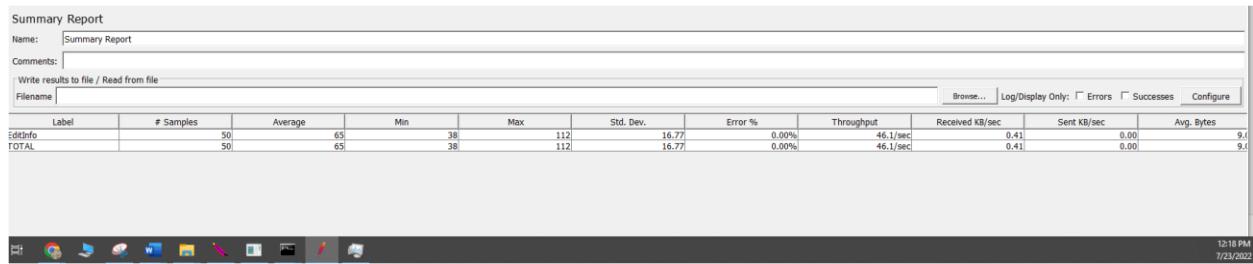
1 UPDATE addresses
2 SET addr_country = 'England'
3 WHERE addr_id > 425;
    
```

12:13 PM
7/23/2022

Sampler result Request Response data												
Response Body Response headers												
411	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
412	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
413	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
414	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
415	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
416	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
417	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
418	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
419	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
420	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
421	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
422	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
423	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
424	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
425	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	64722
426	Business	Khaleda	Shumit	KS IT	Downtown	London	On	England	N7D 3L2	ksit@fan.ca	Mobile	64722
427	Business	Khaleda	Shumit	KS IT	Downtown	London	On	England	N7D 3L2	ksit@fan.ca	Mobile	64722

[View Results Tree](#)

Name:	View Results in Table								
Comments:									
Write results to file / Read from file									
Filename:	<input type="text"/> <input type="button" value="Browse..."/>								
	<input type="checkbox"/> Log/Display Only: <input type="checkbox"/> Errors <input type="checkbox"/> Successes <input type="checkbox"/> Configure								
Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
18	12:16:00.738	Thread Group 1-19	EditInfo	54	✓	-	9	0	54
19	12:16:00.723	Thread Group 1-18	EditInfo	69	✓	-	9	0	69
20	12:16:00.769	Thread Group 1-21	EditInfo	55	✓	-	9	0	55
21	12:16:00.754	Thread Group 1-20	EditInfo	71	✓	-	9	0	71
22	12:16:00.816	Thread Group 1-23	EditInfo	42	✓	-	9	0	42
23	12:16:00.801	Thread Group 1-22	EditInfo	58	✓	-	9	0	58
24	12:16:00.832	Thread Group 1-24	EditInfo	76	✓	-	9	0	76
25	12:16:00.892	Thread Group 1-27	EditInfo	41	✓	-	9	0	41
26	12:16:00.876	Thread Group 1-26	EditInfo	57	✓	-	9	0	57
27	12:16:00.861	Thread Group 1-25	EditInfo	72	✓	-	9	0	72
28	12:16:00.908	Thread Group 1-28	EditInfo	58	✓	-	9	0	58
29	12:16:00.939	Thread Group 1-29	EditInfo	61	✓	-	9	0	61
30	12:16:00.983	Thread Group 1-31	EditInfo	49	✓	-	9	0	49
31	12:16:00.954	Thread Group 1-30	EditInfo	79	✓	-	9	0	79
32	12:16:00.996	Thread Group 1-32	EditInfo	68	✓	-	9	0	68
33	12:16:01.014	Thread Group 1-33	EditInfo	52	✓	-	9	0	52
34	12:16:01.030	Thread Group 1-34	EditInfo	69	✓	-	9	0	69
35	12:16:01.076	Thread Group 1-36	EditInfo	65	✓	-	9	0	65
36	12:16:01.061	Thread Group 1-35	EditInfo	80	✓	-	9	0	80
37	12:16:01.128	Thread Group 1-3	EditInfo	38	✓	-	9	0	38
38	12:16:01.112	Thread Group 1-38	EditInfo	55	✓	-	9	0	55
39	12:16:01.097	Thread Group 1-37	EditInfo	70	✓	-	9	0	70
40	12:16:01.159	Thread Group 1-40	EditInfo	40	✓	-	9	0	40
41	12:16:01.180	Thread Group 1-42	EditInfo	76	✓	-	9	0	76
42	12:16:01.175	Thread Group 1-41	EditInfo	92	✓	-	9	0	92
43	12:16:01.252	Thread Group 1-45	EditInfo	77	✓	-	9	0	77
44	12:16:01.237	Thread Group 1-44	EditInfo	93	✓	-	9	0	93
45	12:16:01.237	Thread Group 1-43	EditInfo	93	✓	-	9	0	93
46	12:16:01.299	Thread Group 1-47	EditInfo	75	✓	-	9	0	75
47	12:16:01.315	Thread Group 1-48	EditInfo	59	✓	-	9	0	59
48	12:16:01.268	Thread Group 1-46	EditInfo	106	✓	-	9	0	106
49	12:16:01.330	Thread Group 1-4	EditInfo	112	✓	-	9	0	112
50	12:16:01.361	Thread Group 1-50	EditInfo	81	✓	-	9	0	81



Address Book Entry Details

Entry Type:	Business
First Name:	Khaleda
Last Name:	Shumit
Business Name:	KS IT
Address Line 1:	Downtown
Address Line 2:	
Address Line 3:	
City:	London
Province:	On
Country:	England
Postal Code:	N7D 3L2
E-mail 1:	ksit@fan.ca
E-mail 2:	
E-mail 3:	
Phone 1:	Mobile 6472223333
Phone 2:	
Phone 3:	
Web Site 1:	www.ks.com
Web Site 2:	
Web Site 3:	

[Return](#)

Screenshot of the application

Task Manager

File Options View

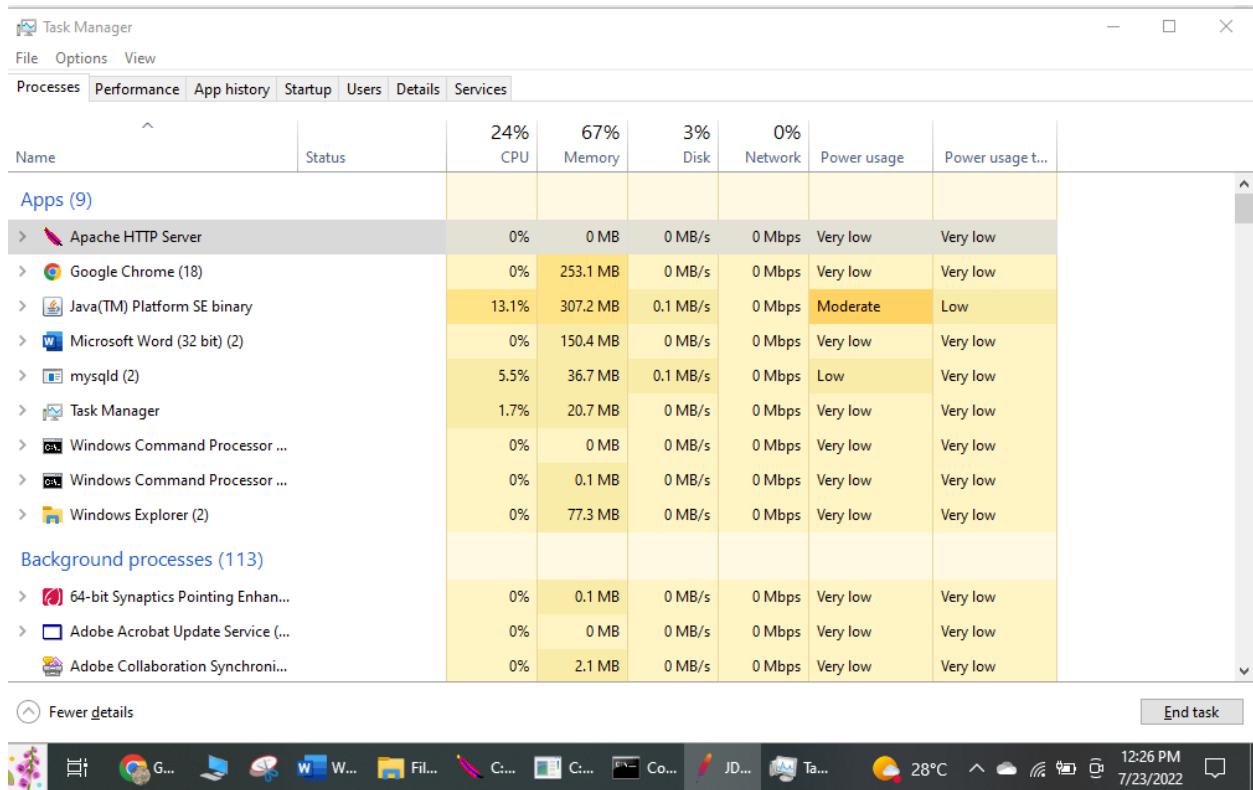
Processes Performance App history Startup Users Details Services

Name	Status	17% CPU	68% Memory	18% Disk	0% Network	Power usage	Power usage t...
Apps (10)							
> Apache HTTP Server		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Google Chrome (18)		0.3%	265.3 MB	0.1 MB/s	0 Mbps	Very low	Very low
> Java(TM) Platform SE binary		6.4%	317.6 MB	0.1 MB/s	0 Mbps	Low	Very low
> Microsoft Word (32 bit) (2)		0%	131.8 MB	0 MB/s	0 Mbps	Very low	Very low
> mysql (2)		0%	37.9 MB	0.1 MB/s	0 Mbps	Very low	Very low
> Snipping Tool		0%	2.8 MB	0 MB/s	0 Mbps	Very low	Very low
> Task Manager		1.4%	20.7 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Explorer (2)		0.6%	80.6 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (114)							
> 64-bit Synaptics Pointing Enhanc...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Adobe Acrobat Update Service (...)		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Fewer details							End task
12:16 PM 7/23/2022							

Read by 100 users

View Results in Table											
Name:	<input type="button" value="View Results in Table"/>										
Comments:											
Write results to file / Read from file											
Filename:											
<input checked="" type="checkbox"/> Scroll automatically?	<input type="checkbox"/> Child samples?	No of Samples 100	Latest Sample 6	Average 8	Deviation 4						
12:26:09.746 Thread Group 1-56											
56	12:26:09.746 Thread Group 1-57	ReadInfo	7	✓	7550	0	7	6	6	6	▲
57	12:26:09.750 Thread Group 1-58	ReadInfo	7	✓	7550	0	7	6	6	6	▲
58	12:26:09.777 Thread Group 1-60	ReadInfo	8	✓	7550	0	8	7	7	7	▲
59	12:26:09.777 Thread Group 1-59	ReadInfo	8	✓	7550	0	8	8	8	7	▲
60	12:26:09.777 Thread Group 1-61	ReadInfo	8	✓	7550	0	8	7	7	7	▲
61	12:26:09.809 Thread Group 1-63	ReadInfo	6	✓	7550	0	6	6	6	6	▲
62	12:26:09.839 Thread Group 1-64	ReadInfo	7	✓	7550	0	7	6	6	6	▲
63	12:26:09.849 Thread Group 1-65	ReadInfo	6	✓	7550	0	6	6	6	6	▲
64	12:26:09.849 Thread Group 1-62	ReadInfo	39	✓	7550	0	39	38	38	38	▲
65	12:26:09.859 Thread Group 1-56	ReadInfo	7	✓	7550	0	7	6	6	6	▲
66	12:26:09.859 Thread Group 1-67	ReadInfo	7	✓	7550	0	7	6	6	6	▲
67	12:26:09.879 Thread Group 1-68	ReadInfo	7	✓	7550	0	7	7	6	6	▲
68	12:26:09.899 Thread Group 1-70	ReadInfo	7	✓	7550	0	7	7	6	6	▲
69	12:26:09.899 Thread Group 1-69	ReadInfo	7	✓	7550	0	7	6	6	6	▲
70	12:26:09.909 Thread Group 1-71	ReadInfo	7	✓	7550	0	7	7	6	6	▲
71	12:26:09.919 Thread Group 1-72	ReadInfo	7	✓	7550	0	7	6	6	6	▲
72	12:26:09.929 Thread Group 1-73	ReadInfo	7	✓	7550	0	7	6	6	6	▲
73	12:26:09.939 Thread Group 1-74	ReadInfo	7	✓	7550	0	7	6	6	6	▲
74	12:26:09.949 Thread Group 1-75	ReadInfo	7	✓	7550	0	7	6	6	6	▲
75	12:26:09.959 Thread Group 1-76	ReadInfo	7	✓	7550	0	7	6	6	6	▲
76	12:26:09.979 Thread Group 1-77	ReadInfo	7	✓	7550	0	7	6	6	6	▲
77	12:26:09.979 Thread Group 1-78	ReadInfo	6	✓	7550	0	6	6	5	5	▲
78	12:26:09.979 Thread Group 1-79	ReadInfo	7	✓	7550	0	7	6	6	6	▲
79	12:26:09.989 Thread Group 1-80	ReadInfo	7	✓	7550	0	7	6	6	6	▲
80	12:26:09.999 Thread Group 1-81	ReadInfo	8	✓	7550	0	7	7	7	7	▲
81	12:26:10.019 Thread Group 1-82	ReadInfo	7	✓	7550	0	7	6	6	6	▲
82	12:26:10.019 Thread Group 1-83	ReadInfo	7	✓	7550	0	7	6	6	6	▲
83	12:26:10.029 Thread Group 1-84	ReadInfo	7	✓	7550	0	7	6	6	6	▲
84	12:26:10.039 Thread Group 1-85	ReadInfo	7	✓	7550	0	7	6	6	6	▲
85	12:26:10.049 Thread Group 1-86	ReadInfo	8	✓	7550	0	7	7	7	7	▲
86	12:26:10.059 Thread Group 1-87	ReadInfo	7	✓	7550	0	6	6	6	6	▲
87	12:26:10.069 Thread Group 1-88	ReadInfo	7	✓	7550	0	7	6	6	6	▲
88	12:26:10.089 Thread Group 1-89	ReadInfo	7	✓	7550	0	7	6	6	6	▲
89	12:26:10.099 Thread Group 1-88	ReadInfo	17	✓	7550	0	17	16	16	16	▲
90	12:26:10.099 Thread Group 1-90	ReadInfo	7	✓	7550	0	7	6	6	6	▲
91	12:26:10.103 Thread Group 1-92	ReadInfo	8	✓	7550	0	7	7	7	7	▲
92	12:26:10.109 Thread Group 1-91	ReadInfo	7	✓	7550	0	7	7	6	6	▲
93	12:26:10.119 Thread Group 1-93	ReadInfo	7	✓	7550	0	7	7	6	6	▲
94	12:26:10.124 Thread Group 1-94	ReadInfo	8	✓	7550	0	7	7	6	6	▲
95	12:26:10.134 Thread Group 1-95	ReadInfo	7	✓	7550	0	7	6	6	6	▲
96	12:26:10.139 Thread Group 1-96	ReadInfo	8	✓	7550	0	8	7	7	7	▲
97	12:26:10.150 Thread Group 1-97	ReadInfo	7	✓	7550	0	6	6	6	6	▲
98	12:26:10.160 Thread Group 1-98	ReadInfo	6	✓	7550	0	6	6	6	6	▲
99	12:26:10.169 Thread Group 1-99	ReadInfo	7	✓	7550	0	7	6	6	6	▲
100	12:26:10.180 Thread Group 1-100	ReadInfo	6	✓	7550	0	6	6	6	6	▲

Summary Report											
Name:	<input type="button" value="Summary Report"/>										
Comments:											
Write results to file / Read from file											
Filename:											
<input checked="" type="checkbox"/> Scroll automatically?	<input type="checkbox"/> Child samples?	No of Samples 100	Latest Sample 6	Average 8	Std. Dev. 4.11	Error % 0.00%	Throughput 100.2/sec	Received KB/sec 738.78	Sent KB/sec 0.00	Avg. Bytes 7550.0	
ReadInfo		100	6	39	4.11	0.00%	100.2/sec	738.78	0.00	7550.0	
TOTAL		100	8	6	39	4.11	0.00%	100.2/sec	738.78	0.00	7550.0



Insert by 100 users

View Results in Table																						
Name:	View Results in Table																					
Comments:																						
Write results to file / Read from file																						
Filename:	<input type="text"/>																					
Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)													
56	12:33:23.922	Thread Group 1-55	InsertInfo	54	✓	9	0	54	6													
57	12:33:23.941	Thread Group 1-57	InsertInfo	68	✓	9	0	68	6													
58	12:33:23.950	Thread Group 1-58	InsertInfo	56	✓	9	0	56	5													
59	12:33:23.962	Thread Group 1-59	InsertInfo	47	✓	9	0	47	5													
60	12:33:23.972	Thread Group 1-60	InsertInfo	69	✓	9	0	69	6													
61	12:33:23.983	Thread Group 1-61	InsertInfo	59	✓	9	0	59	6													
62	12:33:23.991	Thread Group 1-62	InsertInfo	51	✓	9	0	51	5													
63	12:33:24.001	Thread Group 1-63	InsertInfo	40	✓	9	0	40	5													
64	12:33:24.021	Thread Group 1-65	InsertInfo	46	✓	9	0	46	5													
65	12:33:24.029	Thread Group 1-67	InsertInfo	38	✓	9	0	38	6													
66	12:33:24.011	Thread Group 1-64	InsertInfo	56	✓	9	0	56	6													
67	12:33:24.031	Thread Group 1-66	InsertInfo	77	✓	9	0	37	6													
68	12:33:24.051	Thread Group 1-68	InsertInfo	49	✓	9	0	49	7													
69	12:33:24.091	Thread Group 1-72	InsertInfo	34	✓	9	0	34	6													
70	12:33:24.081	Thread Group 1-71	InsertInfo	65	✓	9	0	65	5													
71	12:33:24.071	Thread Group 1-70	InsertInfo	76	✓	9	0	76	5													
72	12:33:24.089	Thread Group 1-69	InsertInfo	68	✓	9	0	68	5													
73	12:33:24.111	Thread Group 1-74	InsertInfo	64	✓	9	0	64	5													
74	12:33:24.101	Thread Group 1-73	InsertInfo	75	✓	9	0	75	6													
75	12:33:24.162	Thread Group 1-79	InsertInfo	39	✓	9	0	39	7													
76	12:33:24.172	Thread Group 1-72	InsertInfo	59	✓	9	0	59	19													
77	12:33:24.242	Thread Group 1-76	InsertInfo	71	✓	9	0	71	7													
78	12:33:24.171	Thread Group 1-80	InsertInfo	62	✓	9	0	62	25													
79	12:33:24.152	Thread Group 1-78	InsertInfo	81	✓	9	0	81	47													
80	12:33:24.142	Thread Group 1-77	InsertInfo	115	✓	9	0	115	38													
81	12:33:24.131	Thread Group 1-81	InsertInfo	76	✓	9	0	76	7													
82	12:33:24.212	Thread Group 1-84	InsertInfo	72	✓	9	0	72	6													
83	12:33:24.222	Thread Group 1-85	InsertInfo	86	✓	9	0	86	5													
84	12:33:24.202	Thread Group 1-83	InsertInfo	106	✓	9	0	106	15													
85	12:33:24.191	Thread Group 1-82	InsertInfo	108	✓	9	0	108	19													
86	12:33:24.180	Thread Group 1-20	InsertInfo	88	✓	9	0	88	6													
87	12:33:24.231	Thread Group 1-86	InsertInfo	129	✓	9	0	129	6													
88	12:33:24.251	Thread Group 1-88	InsertInfo	111	✓	9	0	111	6													
89	12:33:24.241	Thread Group 1-87	InsertInfo	121	✓	9	0	121	5													
90	12:33:24.230	Thread Group 1-89	InsertInfo	101	✓	9	0	101	6													
91	12:33:24.321	Thread Group 1-95	InsertInfo	75	✓	9	0	75	7													
92	12:33:24.343	Thread Group 1-97	InsertInfo	53	✓	9	0	53	7													
93	12:33:24.312	Thread Group 1-94	InsertInfo	86	✓	9	0	86	6													
94	12:33:24.292	Thread Group 1-93	InsertInfo	98	✓	9	0	98	7													
95	12:33:24.292	Thread Group 1-92	InsertInfo	107	✓	9	0	107	6													
96	12:33:24.281	Thread Group 1-91	InsertInfo	119	✓	9	0	119	7													
97	12:33:24.334	Thread Group 1-96	InsertInfo	68	✓	9	0	68	6													
98	12:33:24.355	Thread Group 1-98	InsertInfo	78	✓	9	0	78	6													
99	12:33:24.396	Thread Group 1-100	InsertInfo	79	✓	9	0	79	12													
100	12:33:24.397	Thread Group 1-99	InsertInfo	78	✓	9	0	78	12													

View Results in Table
 Scroll automatically? Child samples?
 No of Samples 100 Latest Sample 78 Average 68 Deviation 21
 12:35 PM
 7/23/2022

Summary Report												
Name:	Summary Report											
Comments:												
\ Write results to file / Read from file												Browse... Log/Display Only: Errors Successes Configure
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes		
InsertInfo	100	68	34	129	21.14	0.00%	91.0/sec	0.80	0.00	9.1		
TOTAL	100	68	34	129	21.14	0.00%	91.0/sec	0.80	0.00	9.1		

Task Manager

File Options View

Processes Performance App history Startup Users Details Services

Name	Status	30% CPU	67% Memory	22% Disk	0% Network	Power usage	Power usage t...
Apps (9)							
> Apache HTTP Server		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Google Chrome (18)		0.4%	244.9 MB	0.1 MB/s	0 Mbps	Very low	Very low
> Java(TM) Platform SE binary		16.3%	333.9 MB	0.1 MB/s	0 Mbps	High	Low
> Microsoft Word (32 bit) (2)		0%	148.3 MB	0 MB/s	0 Mbps	Very low	Very low
> mysqld (2)		3.2%	41.4 MB	0.1 MB/s	0 Mbps	Low	Very low
> Task Manager		0.8%	20.6 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Explorer (2)		0.2%	79.4 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (112)							
> 64-bit Synaptics Pointing Enhanc...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Adobe Acrobat Update Service (...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Adobe Collaboration Synchroni...		0%	2.1 MB	0 MB/s	0 Mbps	Very low	Very low
Fewer details		End task					
New	Whites as	tinytree	info session	2022	JD...	Ta...	12:33 PM 7/23/2022

Update by 100 users

JDBC Request

Name:

Comments:

Variable Name Bound to Pool

Variable Name of Pool declared in JDBC Connection Configuration:

SQL Query

Query Type:

```
1 UPDATE addresses
2 SET addr_country = 'England'
3 WHERE addr_id = 500;
```

Sampler result Request Response data											
Response Body Response headers											
<input type="button" value="Find"/> <input type="checkbox"/> Case sensitive											
null	null	null	www.ks.com								
491	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
492	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
493	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
494	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
495	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
496	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
497	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
498	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
499	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
500	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
501	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
502	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
503	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
504	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
505	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
506	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile
null	null	null	www.ks.com								
507	Business	Khaleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile

View Results Tree

Name: [View Results Tree](#)

Comments:

[Write results to file / Read from file](#)

Filename

Search:

Case sensitive Regular exp.

View Results in Table

Name:

Comments:

Write results to file / Read from file
 Log/Display Only: Errors Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
69	12:53:01.927	Thread Group 1-68	EditInfo	116	✓	9	0	116	
70	12:53:01.936	Thread Group 1-69	EditInfo	107	✓	9	0	107	
71	12:53:01.946	Thread Group 1-70	EditInfo	97	✓	9	0	97	
72	12:53:01.956	Thread Group 1-71	EditInfo	87	✓	9	0	87	
73	12:53:02.025	Thread Group 1-79	EditInfo	58	✓	9	0	58	
74	12:53:01.986	Thread Group 1-74	EditInfo	97	✓	9	0	97	
75	12:53:02.006	Thread Group 1-76	EditInfo	77	✓	9	0	77	
76	12:53:02.015	Thread Group 1-77	EditInfo	68	✓	9	0	68	
77	12:53:01.996	Thread Group 1-75	EditInfo	88	✓	9	0	88	
78	12:53:01.976	Thread Group 1-73	EditInfo	108	✓	9	0	108	
79	12:53:02.026	Thread Group 1-78	EditInfo	58	✓	9	0	58	
80	12:53:02.075	Thread Group 1-83	EditInfo	41	✓	9	0	41	
81	12:53:02.045	Thread Group 1-80	EditInfo	72	✓	9	0	72	
82	12:53:02.065	Thread Group 1-82	EditInfo	52	✓	9	0	52	
83	12:53:02.055	Thread Group 1-81	EditInfo	62	✓	9	0	62	
84	12:53:02.105	Thread Group 1-86	EditInfo	44	✓	9	0	44	
85	12:53:02.085	Thread Group 1-84	EditInfo	65	✓	9	0	65	
86	12:53:02.095	Thread Group 1-85	EditInfo	55	✓	9	0	55	
87	12:53:02.135	Thread Group 1-89	EditInfo	48	✓	9	0	48	
88	12:53:02.125	Thread Group 1-88	EditInfo	58	✓	9	0	58	
89	12:53:02.134	Thread Group 1-91	EditInfo	50	✓	9	0	50	
90	12:53:02.115	Thread Group 1-87	EditInfo	69	✓	9	0	69	
91	12:53:02.175	Thread Group 1-93	EditInfo	41	✓	9	0	41	
92	12:53:02.165	Thread Group 1-92	EditInfo	51	✓	9	0	51	
93	12:53:02.145	Thread Group 1-90	EditInfo	71	✓	9	0	71	
94	12:53:02.205	Thread Group 1-94	EditInfo	45	✓	9	0	45	
95	12:53:02.185	Thread Group 1-94	EditInfo	65	✓	9	0	65	
96	12:53:02.195	Thread Group 1-95	EditInfo	55	✓	9	0	55	
97	12:53:02.225	Thread Group 1-98	EditInfo	58	✓	9	0	58	
98	12:53:02.229	Thread Group 1-100	EditInfo	55	✓	9	0	54	
99	12:53:02.215	Thread Group 1-97	EditInfo	71	✓	9	0	71	
100	12:53:02.243	Thread Group 1-99	EditInfo	82	✓	9	0	82	

Scroll automatically? Child samples?

No of Samples 100 Latest Sample 82 Average 65 Deviation 17

Summary Report

Name:

Comments:

Write results to file / Read from file
 Log/Display Only: Errors Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
EditInfo	100	65	41	116	17.21	0.00%	91.7/sec	0.81	0.00	9
TOTAL	100	65	41	116	17.21	0.00%	91.7/sec	0.81	0.00	9

12:54 PM
7/23/2022

Task Manager

File Options View

Processes Performance App history Startup Users Details Services

Name	Status	25% CPU	67% Memory	23% Disk	0% Network	Power usage	Power usage t...
Apps (10)							
> Apache HTTP Server		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Google Chrome (18)		0%	173.5 MB	0 MB/s	0 Mbps	Very low	Very low
> Java(TM) Platform SE binary		9.8%	371.1 MB	0.1 MB/s	0 Mbps	Moderate	Low
> Microsoft Word (32 bit) (2)		0%	150.1 MB	0 MB/s	0 Mbps	Very low	Very low
> mysqld (2)		3.4%	46.6 MB	0.1 MB/s	0 Mbps	Low	Very low
> Snipping Tool		0%	2.9 MB	0 MB/s	0 Mbps	Very low	Very low
> Task Manager		1.2%	20.7 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Explorer (2)		0.8%	80.5 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (113)							
> 64-bit Synaptics Pointing Enhanc...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Adobe Acrobat Update Service (...)		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Fewer details							End task

Delete by 100 users

JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load n cap test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

- Web Load Testing
- JDBC Connection Con
- Thread Group
 - DeleteInfo**
 - ReadInfo
 - View Results in T
 - View Results Tree
 - Summary Report
 - Graph Results
 - InsertInfo
 - EditInfo

JDBC Request

Name: DeleteInfo

Comments:

Variable Name Bound to Pool

Variable Name of Pool declared in JDBC Connection Configuration: jdbcConfig

SQL Query

Query Type: Update Statement

```
1 DELETE FROM addresses
2 WHERE addr_id <= 427;
```

12:41 PM
7/23/2022

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename:

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
68	12:44:58.852	Thread Group 1-68	DeleteInfo	6	9	0	0	6	5
69	12:44:58.862	Thread Group 1-69	DeleteInfo	7	9	0	0	7	7
70	12:44:58.872	Thread Group 1-70	DeleteInfo	7	9	0	0	7	6
71	12:44:58.882	Thread Group 1-71	DeleteInfo	6	9	0	0	6	6
72	12:44:58.892	Thread Group 1-72	DeleteInfo	7	9	0	0	7	7
73	12:44:58.902	Thread Group 1-73	DeleteInfo	7	9	0	0	7	6
74	12:44:58.911	Thread Group 1-74	DeleteInfo	6	9	0	0	6	6
75	12:44:58.921	Thread Group 1-75	DeleteInfo	6	9	0	0	6	6
76	12:44:58.931	Thread Group 1-76	DeleteInfo	6	9	0	0	6	6
77	12:44:58.941	Thread Group 1-77	DeleteInfo	6	9	0	0	6	6
78	12:44:58.951	Thread Group 1-78	DeleteInfo	6	9	0	0	6	6
79	12:44:58.963	Thread Group 1-79	DeleteInfo	6	9	0	0	6	5
80	12:44:58.973	Thread Group 1-80	DeleteInfo	6	9	0	0	6	6
81	12:44:58.981	Thread Group 1-81	DeleteInfo	6	9	0	0	6	6
82	12:44:58.992	Thread Group 1-82	DeleteInfo	6	9	0	0	6	6
83	12:44:59.001	Thread Group 1-83	DeleteInfo	6	9	0	0	6	6
84	12:44:59.011	Thread Group 1-84	DeleteInfo	6	9	0	0	6	6
85	12:44:59.011	Thread Group 1-85	DeleteInfo	7	9	0	0	7	7
86	12:44:59.032	Thread Group 1-86	DeleteInfo	7	9	0	0	7	6
87	12:44:59.041	Thread Group 1-87	DeleteInfo	6	9	0	0	6	6
88	12:44:59.050	Thread Group 1-88	DeleteInfo	6	9	0	0	6	6
89	12:44:59.060	Thread Group 1-89	DeleteInfo	6	9	0	0	6	6
90	12:44:59.070	Thread Group 1-90	DeleteInfo	6	9	0	0	6	6
91	12:44:59.081	Thread Group 1-91	DeleteInfo	6	9	0	0	6	6
92	12:44:59.089	Thread Group 1-92	DeleteInfo	6	9	0	0	6	6
93	12:44:59.101	Thread Group 1-93	DeleteInfo	6	9	0	0	6	6
94	12:44:59.111	Thread Group 1-94	DeleteInfo	6	9	0	0	6	6
95	12:44:59.122	Thread Group 1-95	DeleteInfo	6	9	0	0	6	5
96	12:44:59.132	Thread Group 1-96	DeleteInfo	6	9	0	0	6	5
97	12:44:59.143	Thread Group 1-97	DeleteInfo	7	9	0	0	7	6
98	12:44:59.152	Thread Group 1-98	DeleteInfo	7	9	0	0	7	6

12:45 PM
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Summary Report

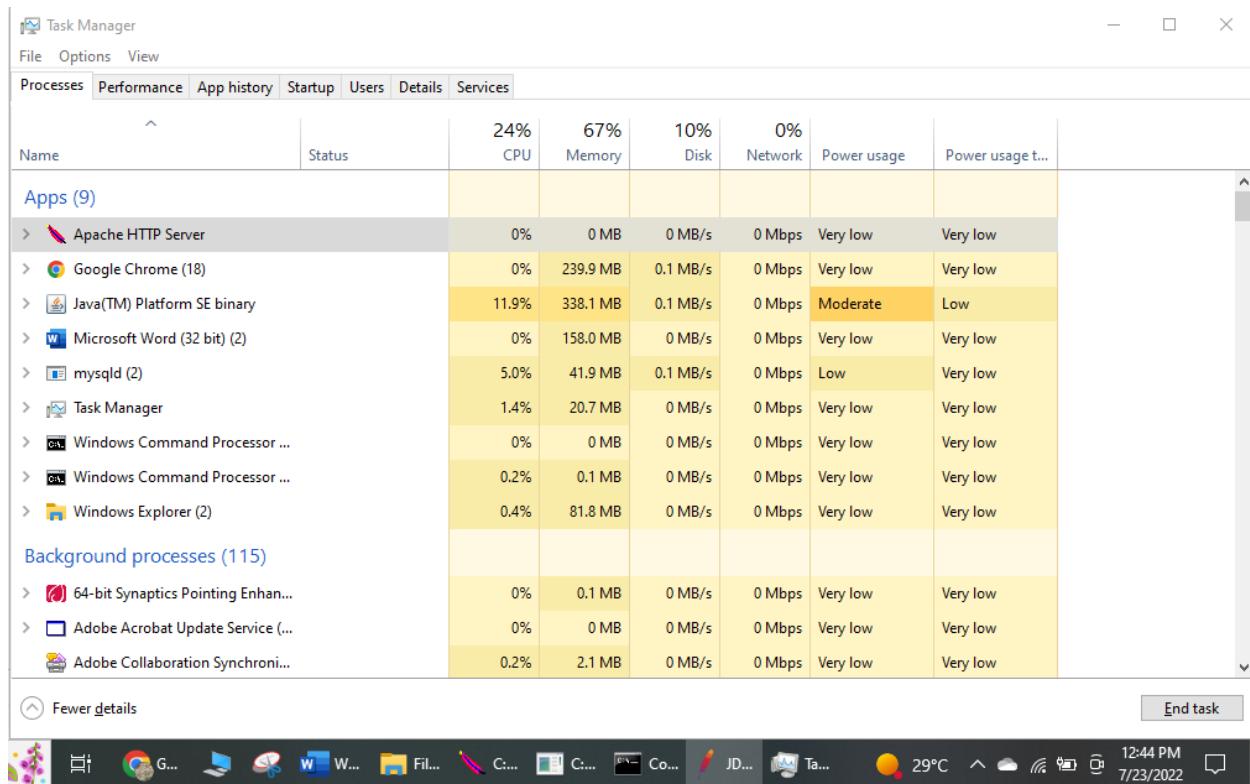
Name: Summary Report

Comments:

Write results to file / Read from file

Filename:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received kB/sec	Sent kB/sec	Avg. Bytes
DeleteInfo	100	7	5	80	8.38	0.00%	101.2/sec	0.89	0.00	9.0
TOTAL	100	7	5	80	8.38	0.00%	101.2/sec	0.89	0.00	9.0



Read by 300 users

Error occurred for too many connections. Power usage was very high with increased CPU usage.

View Results in Table										
Name:	View Results in Table									
Comments:										
Write results to file / Read from file										Filename
Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(s)	
257	13:05:40.346	Thread Group 1-117	ReadInfo	772	✓	13842	0	771		
258	13:05:40.552	Thread Group 1-119	ReadInfo	778	✓	13842	0	777		
259	13:05:40.553	Thread Group 1-120	ReadInfo	776	✓	13842	0	779		
260	13:05:40.554	Thread Group 1-120	ReadInfo	776	✓	13842	0	775		
261	13:05:40.558	Thread Group 1-121	ReadInfo	776	✓	13842	0	775		
262	13:05:41.335	Thread Group 1-293	ReadInfo	1	✗	136	0	0		
263	13:05:40.561	Thread Group 1-122	ReadInfo	777	✓	13842	0	776		
264	13:05:40.564	Thread Group 1-123	ReadInfo	779	✓	13842	0	778		
265	13:05:41.341	Thread Group 1-124	ReadInfo	1	✗	136	0	0		
266	13:05:40.566	Thread Group 1-124	ReadInfo	780	✓	13842	0	780		
267	13:05:40.568	Thread Group 1-125	ReadInfo	783	✓	13842	0	781		
268	13:05:40.571	Thread Group 1-126	ReadInfo	784	✓	13842	0	783		
269	13:05:40.575	Thread Group 1-127	ReadInfo	782	✓	13842	0	781		
270	13:05:40.576	Thread Group 1-128	ReadInfo	784	✓	13842	0	783		
271	13:05:40.277	Thread Group 1-298	ReadInfo	1037	✗	13842	0	1086		
272	13:05:40.580	Thread Group 1-129	ReadInfo	784	✓	13842	0	784		
273	13:05:40.586	Thread Group 1-131	ReadInfo	786	✓	13842	0	785		
274	13:05:40.590	Thread Group 1-133	ReadInfo	783	✓	13842	0	782		
275	13:05:40.591	Thread Group 1-135	ReadInfo	779	✓	13842	0	778		
276	13:05:40.592	Thread Group 1-135	ReadInfo	784	✓	13842	0	783		
277	13:05:40.602	Thread Group 1-137	ReadInfo	780	✓	13842	0	779		
278	13:05:40.606	Thread Group 1-138	ReadInfo	776	✓	13842	0	775		
279	13:05:40.609	Thread Group 1-136	ReadInfo	786	✓	13842	0	785		
280	13:05:40.610	Thread Group 1-139	ReadInfo	783	✓	13842	0	782		
281	13:05:40.611	Thread Group 1-140	ReadInfo	791	✓	13842	0	786		
282	13:05:40.619	Thread Group 1-143	ReadInfo	779	✓	13842	0	779		
283	13:05:40.617	Thread Group 1-142	ReadInfo	781	✓	13842	0	780		
284	13:05:40.625	Thread Group 1-145	ReadInfo	782	✓	13842	0	781		
285	13:05:40.624	Thread Group 1-144	ReadInfo	783	✓	13842	0	782		
286	13:05:40.625	Thread Group 1-146	ReadInfo	783	✓	13842	0	782		
287	13:05:40.634	Thread Group 1-148	ReadInfo	791	✓	13842	36	0		
288	13:05:40.630	Thread Group 1-147	ReadInfo	785	✓	13842	0	784		
289	13:05:40.638	Thread Group 1-150	ReadInfo	786	✓	13842	0	785		
290	13:05:40.584	Thread Group 1-130	ReadInfo	842	✓	13842	0	841		
291	13:05:40.635	Thread Group 1-152	ReadInfo	846	✓	13842	0	845		
292	13:05:40.636	Thread Group 1-149	ReadInfo	797	✓	13842	0	796		
293	13:05:40.641	Thread Group 1-151	ReadInfo	795	✓	13842	0	795		
294	13:05:40.643	Thread Group 1-152	ReadInfo	802	✓	13842	0	800		
295	13:05:41.524	Thread Group 1-296	ReadInfo	1	✗	136	0	0		
296	13:05:41.520	Thread Group 1-295	ReadInfo	8	✓	13842	0	7		
297	13:05:41.521	Thread Group 1-297	ReadInfo	1	✓	136	0	0		
298	13:05:41.531	Thread Group 1-298	ReadInfo	1	✗	136	0	0		
299	13:05:41.538	Thread Group 1-300	ReadInfo	1	✗	136	0	0		
300	13:05:41.554	Thread Group 1-299	ReadInfo	1	✗	136	0	0		

No of Samples 300

Latest Sample 1

Average 296

Deviation 348

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7/23/2022

Response message:java.sql.SQLException: Cannot create
PoolableConnectionFactory (Data source rejected establishment of connection,
message from server: "Too many connections")

Cannot create PoolableConnectionFactory (Data source rejected establishment of connection, message from server: "Too many connections")

Task Manager

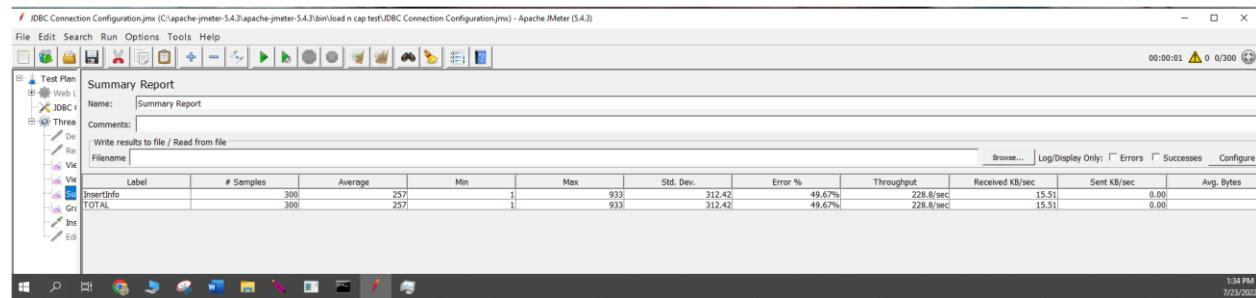
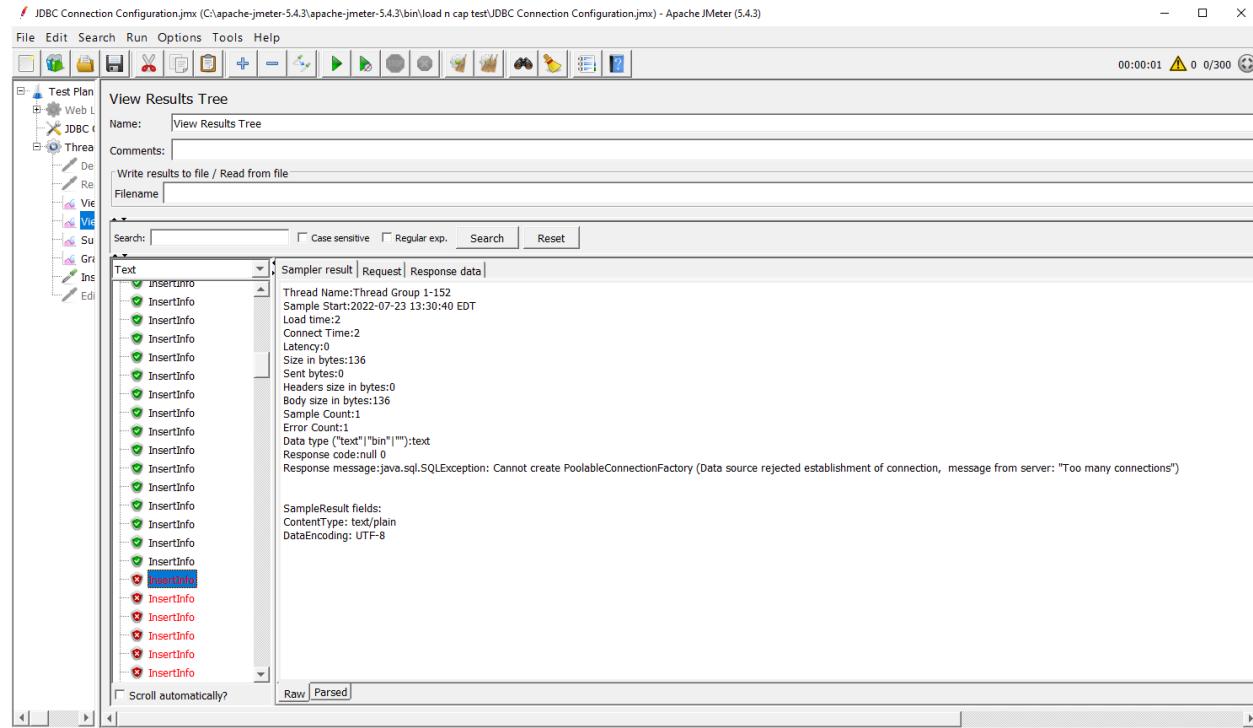
File Options View

Processes Performance App history Startup Users Details Services

Name	Status	62% CPU	68% Memory	2% Disk	0% Network	Power usage	Power usage t...
Apps (10)							
> Apache HTTP Server		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Google Chrome (18)		0%	184.7 MB	0.1 MB/s	0 Mbps	Very low	Very low
> Java(TM) Platform SE binary		41.6%	517.3 MB	0.1 MB/s	0 Mbps	Very high	Moderate
> Microsoft Word (32 bit) (2)		0%	140.8 MB	0 MB/s	0 Mbps	Very low	Very low
> mysqld (2)		8.0%	40.2 MB	0 MB/s	0 Mbps	Moderate	Very low
> Snipping Tool		0%	2.9 MB	0 MB/s	0 Mbps	Very low	Very low
> Task Manager		1.0%	20.6 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Explorer (2)		0.6%	78.1 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (112)							
> 64-bit Synaptics Pointing Enhanc...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Adobe Acrobat Update Service (...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
More details End task							
							

Insert by 300 users

Error occurred for too many connections. Power usage was very high with increased CPU usage.



There were raws upto id=527. After inserting by 300 users, automatic generated id should be $527+300= 827$. But due to error, new raws are created upto id 678. So $(827-678)=149$ insertions did not occur among 300 attempts. So error rate is 49.67%

Sampler result | Request | Response data | Response Body | Response headers |

id	business	firstname	surname	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
668	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
669	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
670	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
671	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
672	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
673	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
674	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
675	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
676	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
677	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null
678	Business	Khleda	Shumit	KS IT	Downtown	London	On	Canada	N7D 3L2	ksit@fan.ca	Mobile	6472223333	null

Find Case sensitive Regular exp 0472223333 null

Task Manager

File Options View

Processes Performance App history Startup Users Details Services

Name	Status	68% CPU	69% Memory	10% Disk	0% Network	Power usage	Power usage t...
Apps (10)							
Apache HTTP Server	Running	0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Google Chrome (18)	Running	0.1%	202.0 MB	0 MB/s	0 Mbps	Very low	Very low
Java(TM) Platform SE binary	Running	44.4%	507.6 MB	0.1 MB/s	0 Mbps	Very high	Moderate
Microsoft Word (32 bit) (2)	Running	0%	149.9 MB	0 MB/s	0 Mbps	Very low	Very low
mysqld (2)	Running	8.7%	36.7 MB	0.1 MB/s	0 Mbps	Moderate	Very low
Snipping Tool	Running	0%	1.9 MB	0 MB/s	0 Mbps	Very low	Very low
Task Manager	Running	0.9%	20.6 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...	Running	0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...	Running	0.1%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Explorer (2)	Running	0.5%	76.7 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (113)							
64-bit Synaptics Pointing Enhanc...	Not running	0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
Adobe Acrobat Update Service (...	Not running	0%	0 MB	0 MB/s	0 Mbps	Very low	Very low

Fewer details End task

1:30 PM 7/23/2022

Read by 500 users

Error occurred for too many connections. Power usage was very high with increased CPU usage.

View Results in Table										
Name:	<input type="button" value="View Results in Table"/>									
Comments:										
	<input type="checkbox"/> Write results to file / Read from file									
Filename:	<input type="text" value=" "/>									
Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(m)	
388	13:35:54.527	Thread Group 1-330	ReadInfo	517	✗	136	0	0	0	
389	13:35:54.087	Thread Group 1-82	ReadInfo	958	✓	34227	0	0	956	
390	13:35:54.526	Thread Group 1-329	ReadInfo	520	✗	136	0	0	0	
391	13:35:54.536	Thread Group 1-335	ReadInfo	511	✗	136	0	0	0	
392	13:35:54.535	Thread Group 1-334	ReadInfo	513	✗	136	0	0	0	
393	13:35:54.534	Thread Group 1-334	ReadInfo	958	✗	34227	0	0	956	
394	13:35:54.534	Thread Group 1-332	ReadInfo	511	✗	136	0	0	0	
395	13:35:54.539	Thread Group 1-336	ReadInfo	511	✗	136	0	0	0	
396	13:35:54.524	Thread Group 1-326	ReadInfo	526	✗	136	0	0	0	
397	13:35:54.531	Thread Group 1-332	ReadInfo	521	✗	136	0	0	0	
398	13:35:54.525	Thread Group 1-383	ReadInfo	966	✗	34227	0	0	964	
399	13:35:54.091	Thread Group 1-36	ReadInfo	903	✓	34227	0	0	961	
400	13:35:54.540	Thread Group 1-337	ReadInfo	518	✗	136	0	0	0	
401	13:35:54.093	Thread Group 1-85	ReadInfo	966	✓	34227	0	0	964	
402	13:35:54.544	Thread Group 1-339	ReadInfo	515	✗	136	0	0	0	
403	13:35:54.542	Thread Group 1-338	ReadInfo	518	✗	136	0	0	0	
404	13:35:54.543	Thread Group 1-341	ReadInfo	509	✗	136	0	0	0	
405	13:35:54.545	Thread Group 1-340	ReadInfo	516	✗	136	0	0	0	
406	13:35:54.547	Thread Group 1-341	ReadInfo	514	✗	136	0	0	0	
407	13:35:54.553	Thread Group 1-344	ReadInfo	509	✗	136	0	0	0	
408	13:35:54.549	Thread Group 1-342	ReadInfo	513	✗	136	0	0	0	
409	13:35:54.548	Thread Group 1-345	ReadInfo	509	✗	136	0	0	0	
410	13:35:54.096	Thread Group 1-87	ReadInfo	975	✓	34227	0	0	974	
411	13:35:54.099	Thread Group 1-88	ReadInfo	976	✓	34227	0	0	974	
412	13:35:54.101	Thread Group 1-89	ReadInfo	981	✓	34227	0	0	979	
413	13:35:54.103	Thread Group 1-90	ReadInfo	982	✓	34227	0	0	980	
414	13:35:54.104	Thread Group 1-92	ReadInfo	1057	✓	34227	0	0	1055	
415	13:35:54.104	Thread Group 1-91	ReadInfo	992	✓	34227	0	0	990	
416	13:35:54.107	Thread Group 1-92	ReadInfo	992	✓	34227	0	0	990	
417	13:35:54.110	Thread Group 1-93	ReadInfo	996	✓	34227	0	0	994	
418	13:35:54.111	Thread Group 1-94	ReadInfo	1000	✓	34227	0	0	998	
419	13:35:53.852	Thread Group 1-39	ReadInfo	1262	✓	34227	0	0	1260	

The screenshot shows the Apache JMeter interface with a JDBC Connection Configuration test plan. The left sidebar displays a tree structure of test elements: Test Plan, JDBC Conn, Thread Group, DeleteInfo, ReadInfo, View Result, View Results Tree, Summary, Graph Rx, InsertInfo, and EditInfo. The 'View Results Tree' node is selected. The main panel shows the configuration for 'View Results Tree'. It includes fields for Name (set to 'View Results Tree'), Comments, and a dropdown for Write results to file / Read from file with options 'Filename' (Browse...), 'Log/Display Only', and 'Log/Display Both'. Below these are search and reset buttons. A 'Text' panel on the left lists 'ReadInfo' entries, many of which are marked as successful (green checkmark). The right panel displays the results of the JDBC connection attempt, showing an error message: 'Cannot create PoolableConnectionFactory (Data source rejected establishment of connection, message from server: "Too many connections")'. The bottom status bar indicates the time as 1:54 AM and the date as 7/23/2022.

Summary Report										
Name:	Summary Report									
Comments:	Write results to file / Read from file									
Filename:										
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
ReadInfo	500	441	1	1727	443.34	69.80%	278.1/sec	2831.73	0.00	104
TOTAL	500	441	1	1727	443.34	69.80%	278.1/sec	2831.73	0.00	104

Task Manager

File Options View

Processes Performance App history Startup Users Details Services

Name	Status	77% CPU	70% Memory	13% Disk	0% Network	Power usage	Power usage t...
Apps (10)							
Apache HTTP Server		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Google Chrome (18)		0.3%	203.6 MB	0.1 MB/s	0 Mbps	Very low	Very low
Java(TM) Platform SE binary		51.5%	644.1 MB	0.1 MB/s	0 Mbps	Very high	Moderate
Microsoft Word (32 bit) (2)		0.3%	164.5 MB	0 MB/s	0 Mbps	Very low	Very low
mysqld (2)		10.8%	41.2 MB	0 MB/s	0 Mbps	Moderate	Low
Snipping Tool		0%	1.9 MB	0 MB/s	0 Mbps	Very low	Very low
Task Manager		0.9%	20.8 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Explorer (2)		0.2%	76.6 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (111)							
64-bit Synaptics Pointing Enhanc...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
Adobe Acrobat Update Service (...)		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
(+) Fewer details							End task
1:35 PM 7/23/2022							

Edit by 500 users

Error occurred for too many connections. Power usage was very high with increased CPU usage.

The screenshot shows the Apache JMeter interface. On the left, the Test Plan tree view is expanded to show a Web Load Testing project containing a JDBC Connection Configuration and a Thread Group. The Thread Group contains several samplers: DeleteInfo, ReadInfo, View Results in Table, View Results Tree, Summary Report, Graph Results, InsertInfo, and EditInfo. The EditInfo sampler is selected and highlighted in blue. The main panel displays the JDBC Request configuration for the EditInfo sampler. The 'Name' field is set to 'EditInfo'. The 'Variable Name Bound to Pool' field shows 'Variable Name of Pool declared in JDBC Connection Configuration: jdbcConfig'. The 'SQL Query' section shows the following update statement:

```
1 UPDATE addresses
2 SET addr_type = 'Family'
3 WHERE addr_id > 427;
```

The bottom right corner of the window shows the timestamp '1:58 PM 7/23/2022'.

The screenshot shows the View Results Tree configuration. The 'Name' field is set to 'View Results Tree'. The 'Write results to file / Read from file' section is expanded, showing the 'Filename' field. The main panel displays the results of the EditInfo sampler. The left sidebar lists all instances of the EditInfo sampler, with the current instance highlighted in blue. The right panel shows the response body for the selected sampler, which contains the message '251 updates'.

The bottom right corner of the window shows the timestamp '2:00 PM 7/23/2022'.

View Results in Table

Name:

Comments:

Write results to file / Read from file

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes
424	14:17:44.888	Thread Group 1-485	InsertInfo		2	✖	136
425	14:17:44.891	Thread Group 1-486	InsertInfo		2	✖	136
426	14:17:44.891	Thread Group 1-487	InsertInfo		2	✖	136
427	14:17:44.159	Thread Group 1-92	InsertInfo	835	✓	9	136
428	14:17:44.991	Thread Group 1-168	InsertInfo		2	✖	136
429	14:17:44.995	Thread Group 1-489	InsertInfo		2	✖	136
430	14:17:44.997	Thread Group 1-490	InsertInfo		2	✖	136
431	14:17:44.997	Thread Group 1-101	InsertInfo		2	✖	136
432	14:17:44.028	Thread Group 1-17	InsertInfo	975	✓	9	136
433	14:17:44.001	Thread Group 1-492	InsertInfo		2	✖	136
434	14:17:44.043	Thread Group 1-25	InsertInfo	960	✓	9	136
435	14:17:44.047	Thread Group 1-27	InsertInfo	957	✓	9	136
436	14:17:44.933	Thread Group 1-155	InsertInfo	72	✓	9	136
437	14:17:44.004	Thread Group 1-493	InsertInfo	1	✖	136	136
438	14:17:45.004	Thread Group 1-494	InsertInfo	1	✖	136	136
439	14:17:45.006	Thread Group 1-495	InsertInfo	2	✖	136	136
440	14:17:45.009	Thread Group 1-497	InsertInfo	2	✖	136	136
441	14:17:44.009	Thread Group 1-496	InsertInfo	2	✖	136	136
442	14:17:45.011	Thread Group 1-498	InsertInfo	1	✖	136	136
443	14:17:45.012	Thread Group 1-499	InsertInfo	2	✖	136	136
444	14:17:44.030	Thread Group 1-18	InsertInfo	986	✓	9	136
445	14:17:44.014	Thread Group 1-500	InsertInfo	2	✖	136	136
446	14:17:44.037	Thread Group 1-23	InsertInfo	998	✓	9	136
447	14:17:44.971	Thread Group 1-76	InsertInfo	69	✓	9	136
448	14:17:43.999	Thread Group 1-14	InsertInfo	1043	✓	9	136
449	14:17:44.965	Thread Group 1-473	InsertInfo	78	✓	9	136
450	14:17:44.177	Thread Group 1-107	InsertInfo	891	✓	9	136
451	14:17:44.176	Thread Group 1-101	InsertInfo	904	✓	9	136
452	14:17:44.166	Thread Group 1-96	InsertInfo	915	✓	9	136
453	14:17:44.186	Thread Group 1-106	InsertInfo	896	✓	9	136
454	14:17:44.172	Thread Group 1-99	InsertInfo	912	✓	9	136
455	14:17:43.997	Thread Group 1-13	InsertInfo	1087	✓	9	136
456	14:17:44.191	Thread Group 1-109	InsertInfo	893	✓	9	136
457	14:17:44.051	Thread Group 1-29	InsertInfo	1034	✓	9	136
458	14:17:44.180	Thread Group 1-103	InsertInfo	905	✓	9	136
459	14:17:44.223	Thread Group 1-129	InsertInfo	887	✓	9	136
460	14:17:44.178	Thread Group 1-102	InsertInfo	932	✓	9	136
461	14:17:44.197	Thread Group 1-112	InsertInfo	914	✓	9	136
462	14:17:44.199	Thread Group 1-116	InsertInfo	913	✓	9	136
463	14:17:44.199	Thread Group 1-113	InsertInfo	913	✓	9	136
464	14:17:44.195	Thread Group 1-111	InsertInfo	922	✓	9	136

Scroll automatically? Child samples?

No of Samples 500 Latest Sample 588 Average 173 Deviation 314

table Errors Successes

2:20 PM
7/23/2022

Summary Report

Name:

Comments:

Write results to file / Read from file
 Log/Display Only: Errors Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
EditInfo	500	461	20	1613	597.50	69.60%	248.9/sec	22.90	0.00	
TOTAL	500	461	20	1613	597.50	69.60%	248.9/sec	22.90	0.00	

2:00 PM
7/23/2022

Task Manager

File Options View

Processes Performance App history Startup Users Details Services

Name	Status	71% CPU	71% Memory	24% Disk	0% Network	Power usage	Power usage t...
Apps (10)							
> Apache HTTP Server		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Google Chrome (18)		0.1%	163.7 MB	0.1 MB/s	0 Mbps	Very low	Very low
> Java(TM) Platform SE binary		43.1%	683.1 MB	0.1 MB/s	0 Mbps	Very high	Moderate
> Microsoft Word (32 bit) (2)		0%	187.2 MB	0 MB/s	0 Mbps	Very low	Very low
> mysqld (2)		13.8%	48.8 MB	0.7 MB/s	0 Mbps	Moderate	Low
> Snipping Tool		0%	2.0 MB	0 MB/s	0 Mbps	Very low	Very low
> Task Manager		1.5%	20.3 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Command Processor ...		0.1%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Windows Explorer (2)		0.3%	78.0 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (112)							
> 64-bit Synaptics Pointing Enhanc...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
> Adobe Acrobat Update Service (...)		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Fewer details		End task					
							

Insert by 500 users

The screenshot shows the Apache JMeter interface with a test plan containing a JDBC Connection Configuration and a Thread Group named 'InsertInfo'. The JDBC Request configuration has a SQL query defined as:

```
1 INSERT INTO addresses( addr_type, addr_first_name, addr_last_name, addr_business, addr_addr_line_1,
2 addr_addr_line_2, addr_addr_line_3, addr_city, addr_region, addr_country, addr_post_code, addr_email_1,
3 addr_email_2, addr_email_3, addr_phone_1_type, addr_phone_1, addr_web_url_1,addr_web_url_2,addr_web_url_3)
4 VALUES( 'Business', 'Robert', 'Smith', 'Restaurant', 'Missisaga', '', '', 'Toronto', 'On', 'Canada', 'L4C 5L5',
5 'rob@gmail.com', '', '', 'Work', '999-3344', 'www.robreast.ca','','')
```

The screenshot shows the Windows Task Manager displaying resource usage for various processes. The 'Processes' tab is selected, showing columns for Name, Status, CPU, Memory, Disk, Network, Power usage, and Power usage t... . The tasks listed include Apache HTTP Server, Google Chrome, Java(TM) Platform SE binary, Microsoft Word, mysqld, Task Manager, Windows Command Processor, Windows Explorer, and several background processes.

Name	Status	54% CPU	69% Memory	5% Disk	0% Network	Power usage	Power usage t...
Apache HTTP Server		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Google Chrome (18)		0.2%	213.2 MB	0 MB/s	0 Mbps	Very low	Very low
Java(TM) Platform SE binary		30.2%	571.5 MB	0.1 MB/s	0 Mbps	Very high	Moderate
Microsoft Word (32 bit) (2)		0%	169.5 MB	0 MB/s	0 Mbps	Very low	Very low
mysqld (2)		9.9%	51.0 MB	0 MB/s	0 Mbps	Moderate	Very low
Task Manager		1.2%	20.5 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Command Processor ...		0.2%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
Windows Explorer (2)		1.1%	79.2 MB	0 MB/s	0 Mbps	Very low	Very low
Background processes (114)							
64-bit Synaptics Pointing Enhanc...		0%	0.1 MB	0 MB/s	0 Mbps	Very low	Very low
Adobe Acrobat Update Service (...)		0%	0 MB	0 MB/s	0 Mbps	Very low	Very low
Adobe Collaboration Synchroni...		0%	1.9 MB	0.1 MB/s	0 Mbps	Very low	Very low

The screenshot shows the Apache JMeter interface with the following details:

- Test Plan:** JDBC Connection Configuration.jmx
- Nodes in the left sidebar:**
 - Test Plan
 - Web Load Testing
 - JDBC Connection Configuration
 - Thread Group
 - DeleteInfo
 - ReadInfo
 - View Results in Table
 - View Results Tree** (highlighted)
 - Summary Report
 - Graph Results
 - InsertInfo
 - EditInfo
- Main Panel - View Results Tree Configuration:**
 - Name: View Results Tree
 - Comments: Write results to file / Read from file
 - Filename: [empty]
 - Search: [] Case sensitive Regular exp. Search Reset
- Sampler Results List:** Text tab
 - Sampler result | Request | Response data
 - Thread Name: Thread Group 1-8
 - Sample Start: 2022-07-23 14:17:43 EDT
 - Load time: 62
 - Latency: 28
 - Size in bytes: 9
 - Sent bytes: 0
 - Headers size in bytes: 0
 - Body size in bytes: 9
 - Sample Count: 1
 - Error Count: 0
 - Data type ("Text"|"bin"|""): text
 - Response code: 200
 - Response message: OK

Summary Report											
Name:	Summary Report										
Comments:											
Write results to file / Read from file											
Filename	<input type="text"/>										<input type="button" value="Browse..."/>
											<input type="checkbox"/> Log/Display Only <input type="checkbox"/> Errors <input type="checkbox"/> Successes <input type="button" value="Configure"/>
Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes	
InsertInfo	500	173	1	1087	314.11	69.60%	409.5/sec	35.75	0.00		
TOTAL	500	173	1	1087	314.11	69.60%	409.5/sec	35.75	0.00		

JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\loadn cap test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

- Web Load Testing
- JDBC Connection Configuration
- Thread Group
 - DeleteInfo
 - ReadInfo
 - View Results in Table
 - View Results Tree
 - Summary Report
 - Graph Results
 - InsertInfo
 - EditInfo

Graph Results

Name: Graph Results

Comments:

Write results to file / Read from file

Filename:

Graphs to Display: Data Average Median Deviation Throughput

891 ms

0 ms

No of Samples 500

Deviation 114

Latest Sample 1053

Throughput 173 KB/minute

Average 173

Median 114

Focus

Text Predictions: On Accessibility: Unavailable

2:19 PM
7/23/2022

Delete by 500 users

JDBC Connection Configuration.jmx (C:\apache-jmeter-5.4.3\apache-jmeter-5.4.3\bin\load\cap\test\JDBC Connection Configuration.jmx) - Apache JMeter (5.4.3)

File Edit Search Run Options Tools Help

Test Plan

- Web Load Testing
- JDBC Connection Configuration
- Thread Group
 - DeleteInfo
 - ReadInfo
 - View Results In Table
 - View Results Tree
 - Summary Report
 - Graph Results
 - InsertInfo
 - EditInfo

JDBC Request

Name: DeleteInfo

Comments:

Variable Name Bound to Pool

Variable Name of Pool declared in JDBC Connection Configuration: jdbcConfig

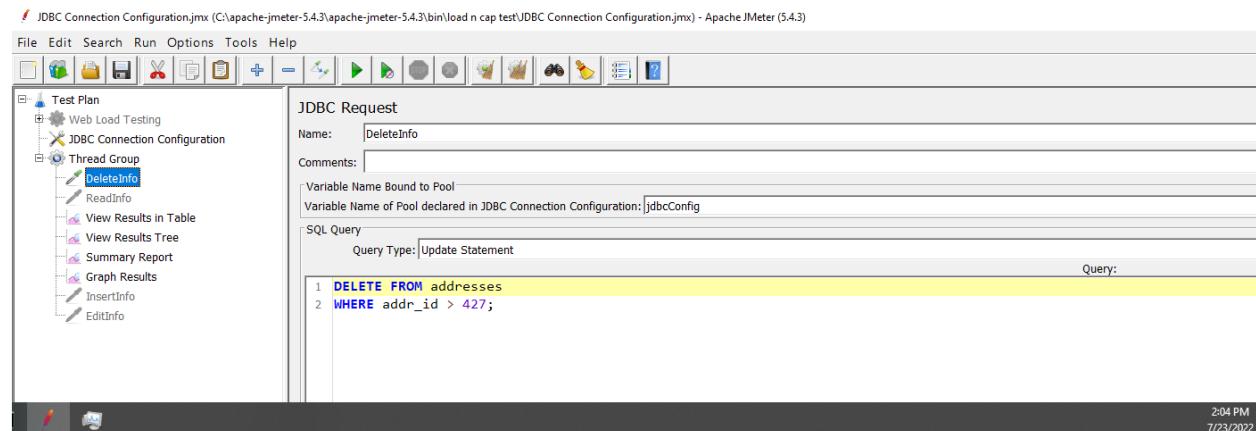
SQL Query

Query Type: Update Statement

```
1 DELETE FROM addresses
2 WHERE addr_id > 427;
```

Query:

2:04 PM
7/23/2022



Summary Report

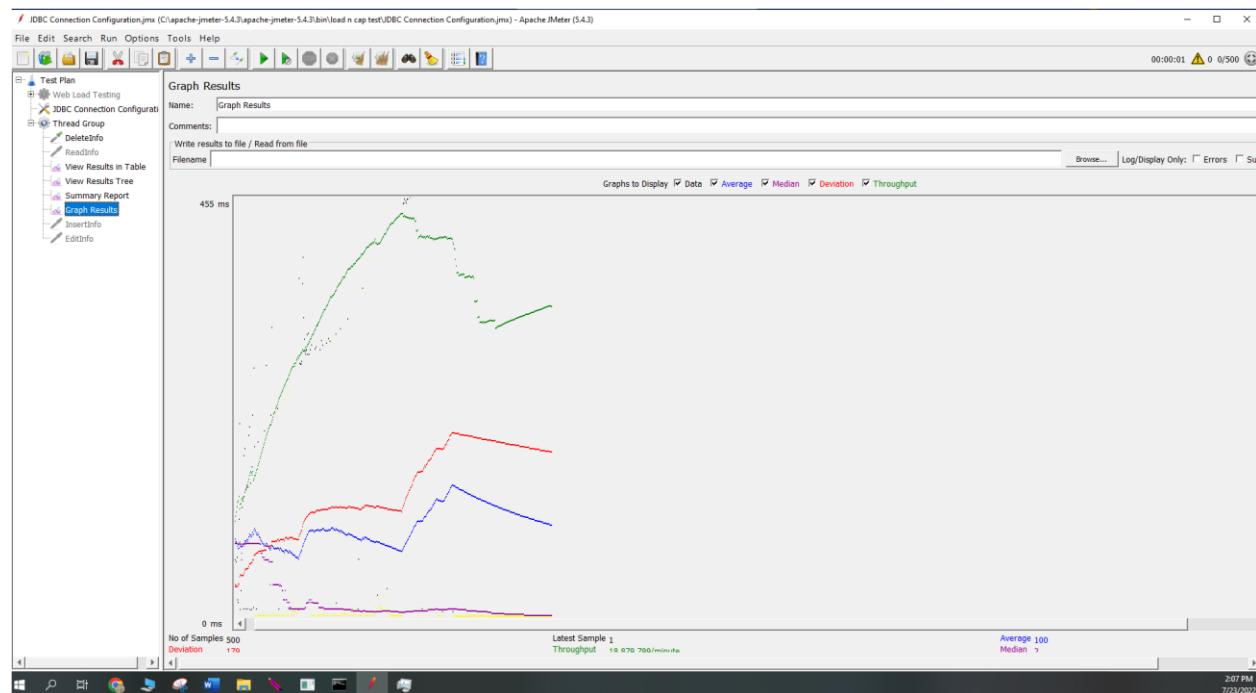
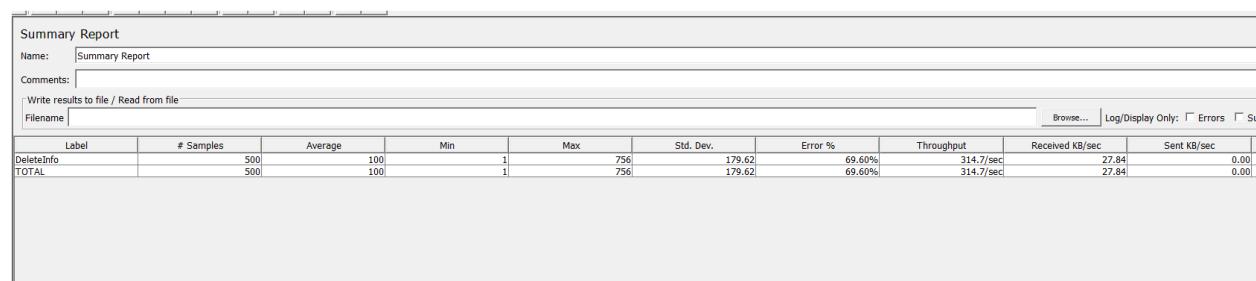
Name: Summary Report

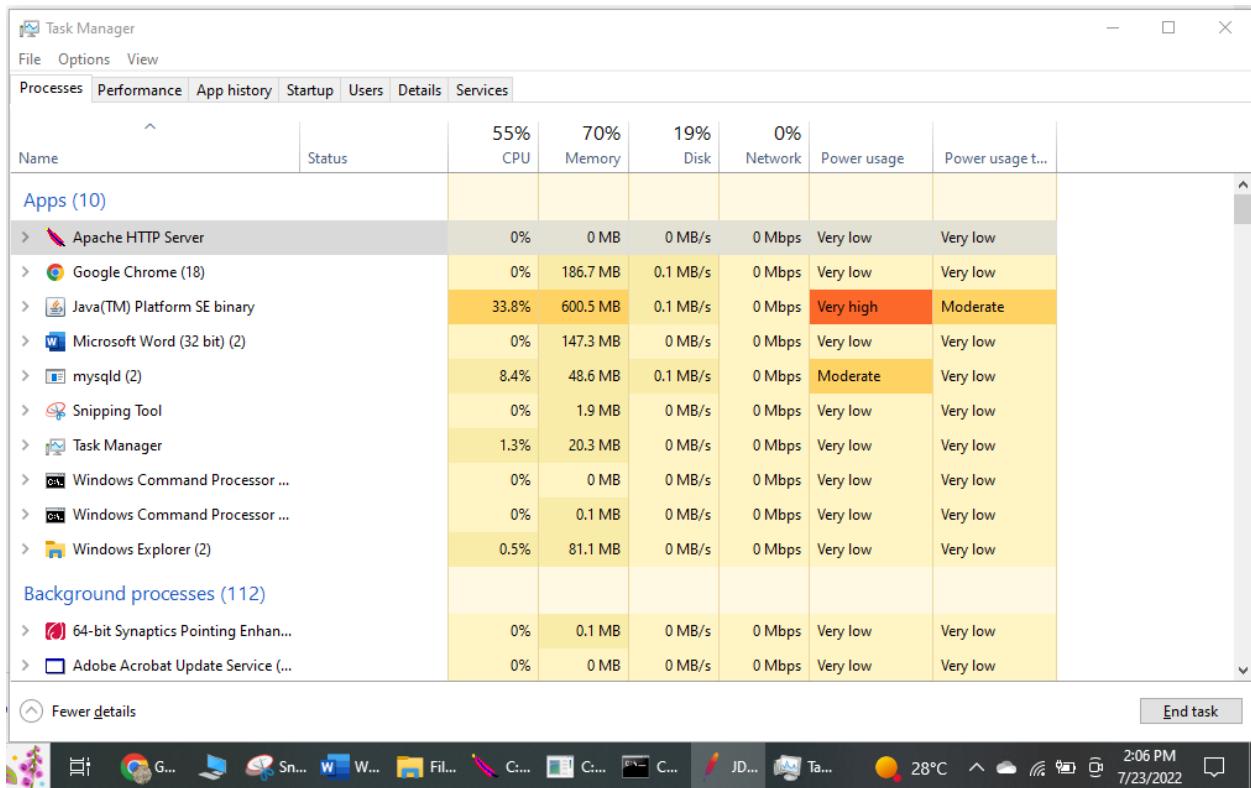
Comments:

Write results to file / Read from file

Filename:

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec
DeleteInfo	500	100	1	756	179.62	69.60%	314.7/sec	27.84	0.00
TOTAL	500	100	1	756	179.62	69.60%	314.7/sec	27.84	0.00





2 ANALYSIS AND FINDINGS

1. In terms of the application performance, how did the address-book application perform?

When considering the load testing, we ran the test cases of http requests made to web pages of the application by varying the number of the users, the avg. response time was good. For the volume testing as well the response time for performing various CRUD commands was good. However, it kept changing every other time the test case was run. Also, the response time kept increasing with the increase in number of users. Another interesting thing that we noticed was read operation was successful for all users when test case run for 250 users, but many transactions failed when same was run after some. So, the error rate varied for same test case when run at different times.

The error rate kept increasing with the increase in the user, so that factor needs to be considered before taking the application to production. Otherwise, it will be great problem for the users when accessing the application concurrently.

3 CONCLUSION

To conclude, the performance of the app was good only when the number of users performing CRUD were less. The error rate was 0 for users till 150, however for 200 its 25% and 250 it went to approx.40% and it kept increasing with the increase in number of users. So, it did not pass the volume testing. For any test case, if users > 150, then only 151 samples were success all other were failed. So, it can handle 151 concurrent users at a time. On the other hand, considering the http request sent to the app had good response time without any failure.