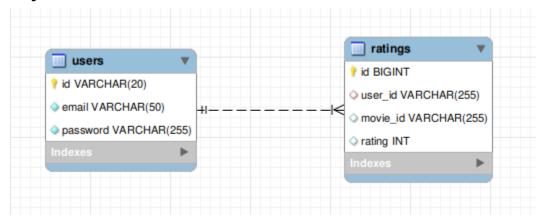
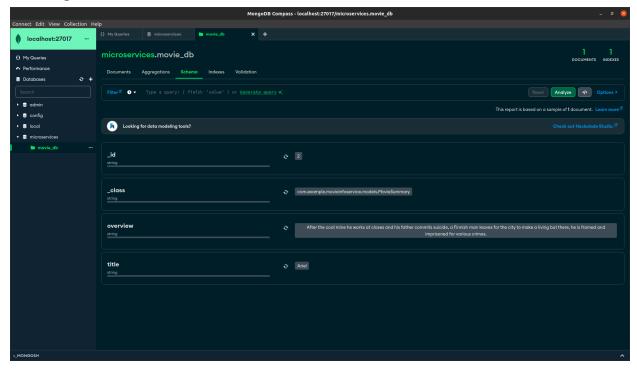
MySQL Schema:



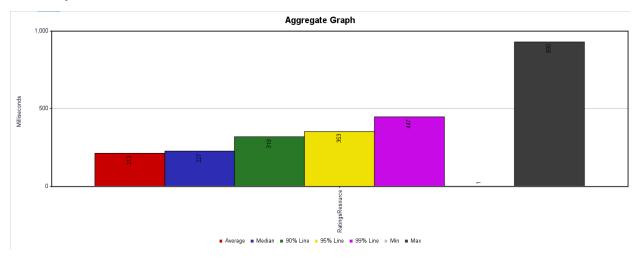
MongoDB Schema:



JMeter:

First Request: http://localhost:8083/ratings/{userId}

Latency distribution under normal load:

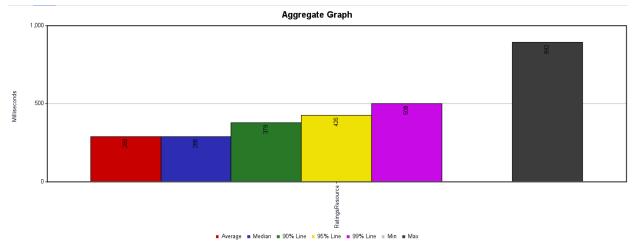


Throughput:

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput	Received KB/	Sent KB/sec
RatingsResou	40000	213	227	319	353	447	1	930	0.00%	6317.1/sec	3325.12	789.64
TOTAL	40000	213	227	319	353	447	1	930	0.00%	6317.1/sec	3325.12	789.64

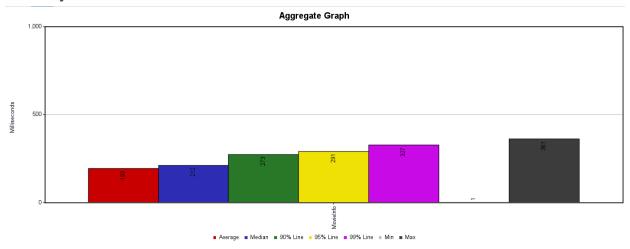
Maximum number of requests that the server fulfill without failure: 2000 When the number of requests reach 2500, fail cases start to appear with error rate of 1.67%

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput	Received KB/	Sent KB/sec
RatingsResou	90000	253	273	361	393	474	0	804	1.67%	2767.8/sec	1551.43	340.19
TOTAL	90000	253	273	361	393	474	0	804	1.67%	2767.8/sec	1551.43	340.19



Second Request: http://localhost:8082/movies/{movield}

Latency distribution under normal load:

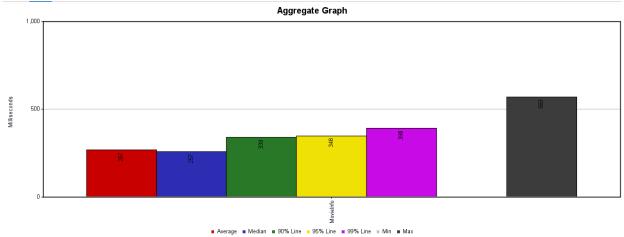


Throughput:

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput	Received KB/	Sent KB/sec
Movielnfo	40000	193	212	273	291	327	1	361	0.00%	6958.9/sec	2466.89	876.66
TOTAL	40000	193	212	273	291	327	1	361	0.00%	6958.9/sec	2466.89	876.66

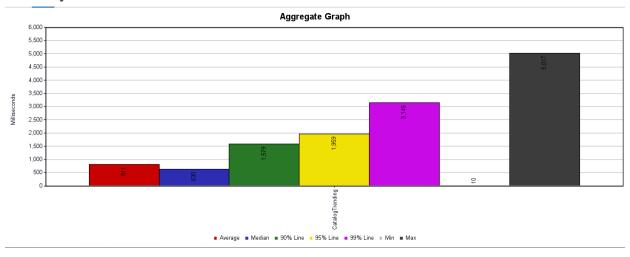
Maximum number of requests that the server fulfill without failure: 2000 When the number of requests reach 2500, fail cases start to appear with error rate of 0.59%

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput	Received KB/	Sent KB/sec
Movielnfo	90000	231	251	327	343	369	0	635	0.59%	3480.0/sec	1279.03	435.82
TOTAL	90000	231	251	327	343	369	0	635	0.59%	3480.0/sec	1279.03	435.82



Third Request: http://localhost:8081/catalog/trending

Latency distribution under normal load:



Throughput:

Samples

Label

Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput	Received KB/	Sent KB/sec
CatalogTrend	10000	811	630	1579	1959	3145	10	5017	0.00%	520.7/sec	454.77	67.12
TOTAL	10000	811	630	1579	1959	3145	10	5017	0.00%	520.7/sec	454.77	67.12
TOTAL	10000	811	630	15/9	1959	3145	10	5017	0.00%	520.7/sec	454.//	

Maximum number of requests that the server fulfill without failure: 500

95% Line

90% Line

When the number of requests reach 600, fail cases start to appear with an error rate of 62.01% and the server needs to be restarted.

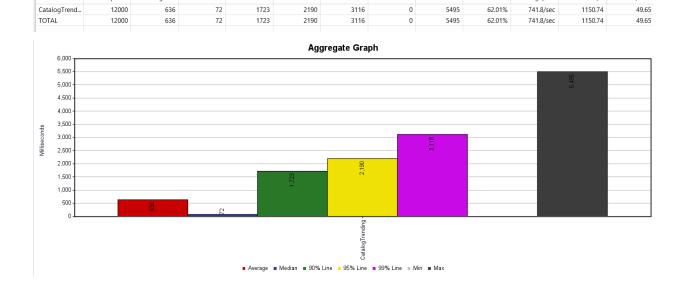
99% Line

Maximum

Error %

Sent KB/sec

Throughput Received KB/...



GitHub Repo:

https://github.com/mo-ayman/spring-boot-microservices