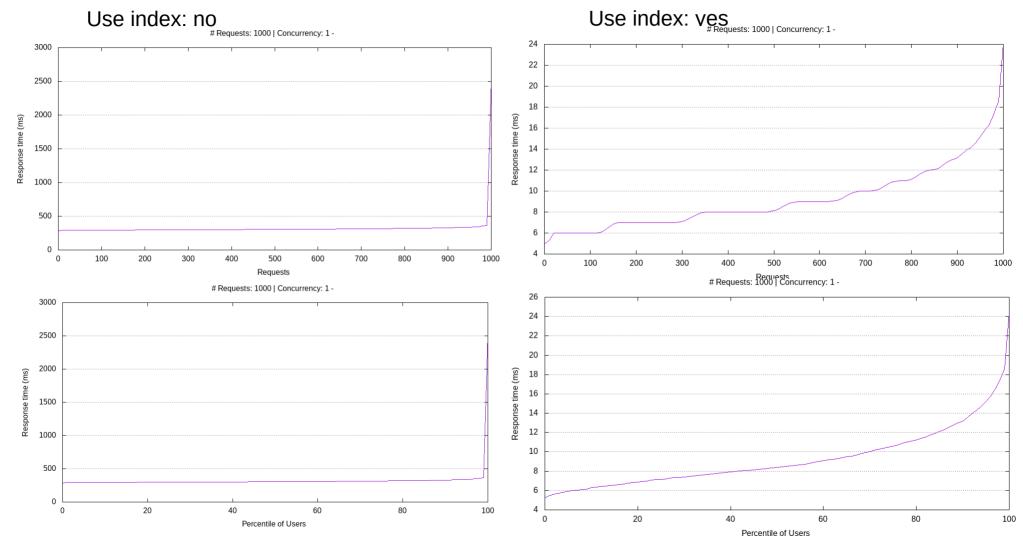
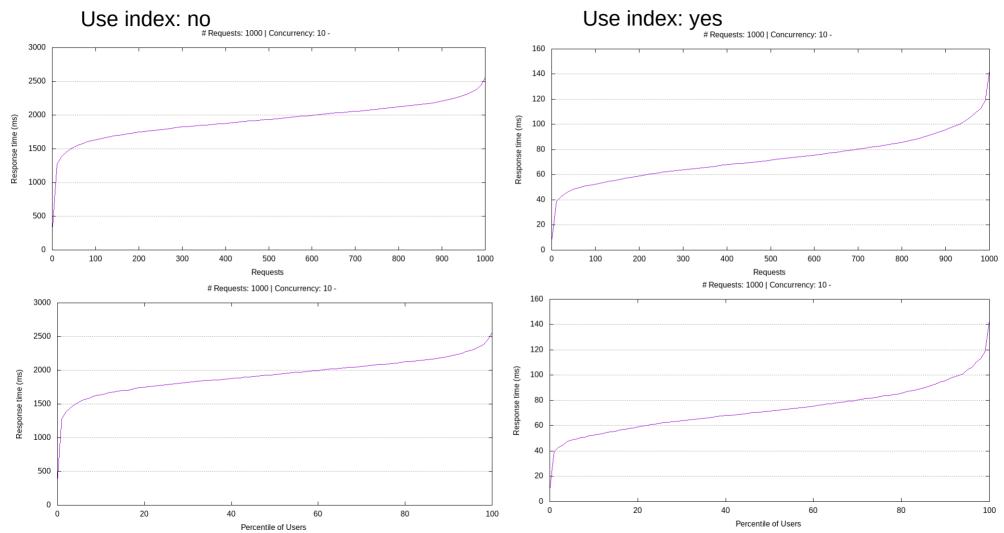
Test report

Database MySQL index test

For 1/10/100/1000 amount of simultaneous requests. Results represented with and without database index. Two plots for every option – latency and throughput.

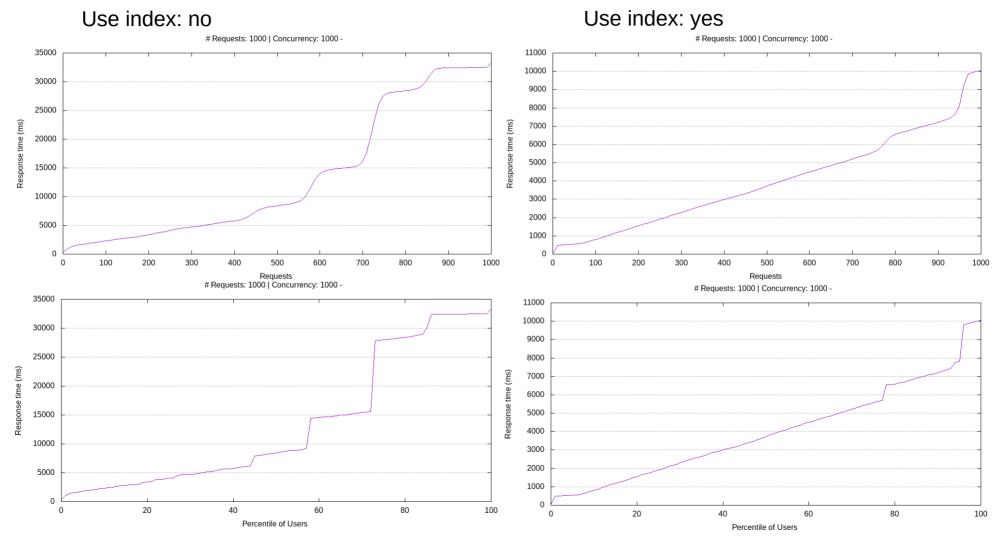




Use index: yes Use index: no # Requests: 1000 | Concurrency: 100 -# Requests: 1000 | Concurrency: 100 -Response time (ms) Response time (ms) Requests Requests # Requests: 1000 | Concurrency: 100 -# Requests: 1000 | Concurrency: 100 -Response time (ms) Response time (ms)

Percentile of Users

Percentile of Users



Queries

- Query for add index CREATE INDEX profile_fname_sname ON profile(fname, sname)
- Explain output

mysql> explain SELECT crid, fname, sname, age, gender, hob, city FROM profile WHERE fname LIKE 'Ave' and sname LIKE 'Che' ORDER BY crid;

Why index was chosen like that?
Because necessary search based on fname and sname. And fname has first place in select query.