Скрипт по созданию индекса:

CREATE INDEX idx\_first\_last\_name  
 ON public.users USING btree (first\_name, last\_name)  
include (id, login, birthday, gender\_id, city, enabled, interests);

Поиск осуществлял скриптом  
explain analyse  
select id, login, first\_name, last\_name, birthday, gender\_id, city, enabled, interests  
from users  
where first\_name like 'xxxxx%' and last\_name like 'xxxxx%'

limit 100;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Sample | Average | Median | 90% | 95% | 99% | throughput |
| 1000 без индекса | 2236 | 35514 | 45124 | 48452 | 48649 | 48787 | 20,6/sec |
| 1000 с индексом | 60360 | 929 | 844 | 2037 | 2339 | 4212 | 982,4/sec |
| 100 без индекса | 1287 | 4475 | 4932 | 5356 | 5423 | 5564 | 19,8/sec |
| 100 с индексом | 47562 | 76 | 18 | 208 | 238 | 309 | 1144/sec |
| 10 без индекса | 1209 | 460 | 415 | 797 | 854 | 974 | 20,1/sec |
| 10 с индексом | 56610 | 9 | 11 | 20 | 23 | 28 | 943/sec |