Test report

February 1, 2021

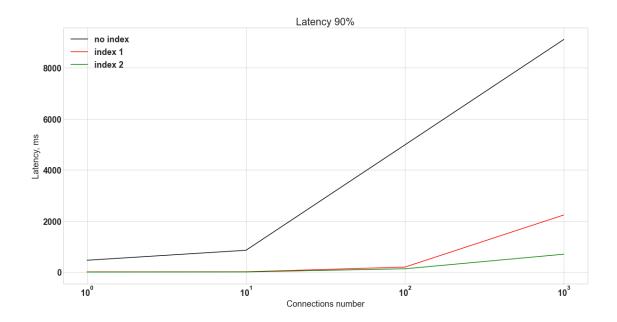
0.1

```
[1]: %matplotlib inline
import matplotlib.pyplot as plt
plt.style.use('seaborn-whitegrid')
import numpy as np
```

0.2

```
[2]: # latency 90
     x = [1, 10, 100, 1000]
     x1 = [1, 10, 1000]
     y_no = [467, 857, 9110]
     y_{i1} = [10.5, 15.3, 198, 2240]
     y_{i2} = [3.27, 8.94, 132.3, 703]
     font = {'weight' : 'bold',
             'size' : 18}
     plt.rc('font', **font)
     plt.rcParams["figure.figsize"] = (20,10)
     plt.semilogx(x1, y_no, '-', color='black', label='no index')
     plt.semilogx(x, y_i1, '-', color='red', label='index 1')
    plt.semilogx(x, y_i2, '-', color='green', label='index 2')
     plt.title('Latency 90%')
     plt.xlabel('Connections number')
     plt.ylabel('Latency, ms')
     plt.legend()
```

[2]: <matplotlib.legend.Legend at 0x124d87040>

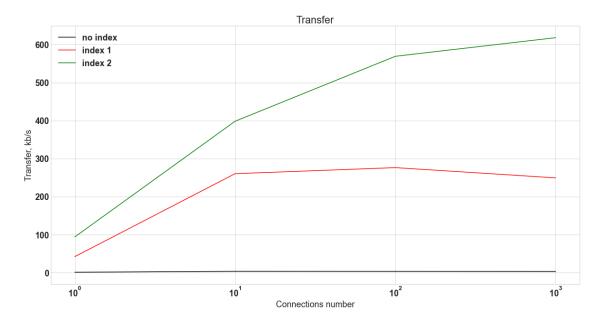


- 1000 : 0 requests in 5.00m, 0.00B read Socket errors: connect 0, read 3980, write 16, timeout 0
- 1000 (index 1): 110909 requests in 1.67m, 24.33MB read Socket errors: connect 0, read 1353, write 32, timeout 0

report_raw_data.txt

```
plt.title('Transfer')
plt.xlabel('Connections number')
plt.ylabel('Transfer, kb/s')
plt.legend()
```

[3]: <matplotlib.legend.Legend at 0x124f90a00>



```
index 1 -
                2
                        first_name second_name
create index users_first_name_index
    on users (first_name);
create index users_second_name_index
    on users (second_name);
index 2 -
                 (first name, second name)
create index users_first_name_second_name_index
    on users (first_name, second_name);
                                                  1
              (first_name, second_name)
{
  "query_block": {
    "select_id": 1,
    "cost_info": {
      "query_cost": "3.41"
    },
    "ordering_operation": {
      "using_filesort": true,
```

```
"cost_info": {
             "sort_cost": "1.00"
          },
          "table": {
             "table name": "users",
             "access_type": "range",
             "possible_keys": [
               "users_first_name_second_name_index"
            ],
             "key": "users_first_name_second_name_index",
             "used_key_parts": [
              "first_name",
              "second_name"
            ],
            "key_length": "104",
             "rows_examined_per_scan": 1,
             "rows_produced_per_join": 1,
             "filtered": "100.00",
             "index_condition": "(('db'.'users'.'first_name' like 'Bobby') and ('db'.'users'.'secondition":
             "cost_info": {
              "read_cost": "2.21",
              "eval cost": "0.20",
              "prefix_cost": "2.41",
               "data_read_per_join": "1K"
            },
             "used_columns": [
              "id",
              "username",
              "first_name",
              "second_name"
            ]
          }
        }
      }
    }
[]:
```