*Table 2: Average Execution Time measured by the server of 5 runs for each query*

Buffer Pool Size: 17.1799 GBytes

|  |  |  |  |
| --- | --- | --- | --- |
| **Query ID** | **Optimization Method** | **Before (ms)** | **After (ms)** |
| Q1 | Add index on day/month/year | 0.10799410 | 0.08066710 |
| Q2 | Add index on rt\_count | 0.01053030 | 0.00884770 |
| Q3 | Add indexes on state data | 0.42991550 | 0.36291970 |
| Q6 | Add index on followers | 0.30775630 | 0.28102270 |
| Q10 | Add indexes on state data | 0.00180060 | 0.00165590 |
| Q15 | Add index on tweet year | 0.10343100 | 0.06741880 |
| Q23 | Add index on tweet year | 0.42154150 | 0.23759320 |
| Q27 | Add index on tweet year | 0.22368140 | 0.17572980 |