**WorkloadA**

|  |  |  |  |
| --- | --- | --- | --- |
| Workload | Database | Opcount | Throughput (ops.sec) Overall |
| Workload A | MySQL | 70000 | 2197.526213348402 |
| Workload A | MySQL | 170000 | 2401.7744875037088 |
| Workload A | MySQL | 145000 | 2275.3664124533517 |
| Workload A | MySQL | 267000 | 2255.048521549649 |
| Workload A | MongoDB | 70000 | 2078.014605474084 |
| Workload A | MongoDB | 170000 | 2410.73201168496 |
| Workload A | MongoDB | 145000 | 2326.588897764132 |
| Workload A | MongoDB | 267000 | 2411.7716133577824 |

Read Operations vs Average Latency

|  |  |  |  |
| --- | --- | --- | --- |
| Workload | Database | READ operations | Average Latency (us) |
| Workload A | MySQL | 34904 | 323.3809592023837 |
| Workload A | MySQL | 84814 | 528.7641545027943 |
| Workload A | MySQL | 72624 | 520.2296348314607 |
| Workload A | MySQL | 133639 | 649.3356280726434 |
| Workload A | MongoDB | 35095 | 335.63453483402196 |
| Workload A | MongoDB | 84697 | 535.6050863666954 |
| Workload A | MongoDB | 72406 | 519.0857801839627 |
| Workload A | MongoDB | 133762 | 633.093786943975 |

Insert Operations vs Average Latency

|  |  |  |  |
| --- | --- | --- | --- |
| Workload | Database | INSERT operations | Average Latency (us) |
| Workload A | MySQL | 70000 | 431.37408571428574 |
| Workload A | MySQL | 170000 | 404.28327058823527 |
| Workload A | MySQL | 145000 | 419.72195862068963 |
| Workload A | MySQL | 267000 | 434.20783895131086 |
| Workload A | MongoDB | 70000 | 455.7227857142857 |
| Workload A | MongoDB | 170000 | 402.3977823529412 |
| Workload A | MongoDB | 145000 | 412.2106620689655 |
| Workload A | MongoDB | 267000 | 405.3854943820225 |

Update Operations vs Average Latency

|  |  |  |  |
| --- | --- | --- | --- |
| Workload | Database | UPDATE operations | Average Latency (us) |
| Workload A | MySQL | 35096 | 405.0670446774561 |
| Workload A | MySQL | 85816 | 424.8743455497382 |
| Workload A | MySQL | 72376 | 420.6884713164584 |
| Workload A | MySQL | 13361 | 436.0418638132588 |
| Workload A | MongoDB | 34905 | 411.5474000859476 |
| Workload A | MongoDB | 85303 | 409.81258572383155 |
| Workload A | MongoDB | 72594 | 419.41985563545194 |
| Workload A | MongoDB | 133238 | 426.8811900508864 |

**WorkloadD**

|  |  |  |  |
| --- | --- | --- | --- |
| Workload | Database | Opcount | Throughput (ops.sec) Overall |
| Workload A | MySQL | 70000 | 2188.525871502267 |
| Workload A | MySQL | 170000 | 2353.2343129247934 |
| Workload A | MySQL | 145000 | 2341.731266149871 |
| Workload A | MySQL | 267000 | 2292.1996653165296 |
| Workload A | MongoDB | 70000 | 2136.947827945172 |
| Workload A | MongoDB | 170000 | 2363.934699780293 |
| Workload A | MongoDB | 145000 | 2231.4901737484422 |
| Workload A | MongoDB | 267000 | 2283.5931954054445 |

Read Operations vs Average Latency

|  |  |  |  |
| --- | --- | --- | --- |
| Workload | Database | READ operations | Average Latency (us) |
| Workload A | MySQL | 66547 | 251.2059376739847 |
| Workload A | MySQL | 161697 | 390.6666171914136 |
| Workload A | MySQL | 137858 | 414.88042768646 |
| Workload A | MySQL | 253545 | 438.11936737068373 |
| Workload A | MongoDB | 66605 | 242.86687185646724 |
| Workload A | MongoDB | 161958 | 557.5278963848563 |
| Workload A | MongoDB | 137775 | 419.2654908365088 |
| Workload A | MongoDB | 2543433 | 481.1051283771253 |

Latest Insert Operations vs Average Latency

|  |  |  |  |
| --- | --- | --- | --- |
| Workload | Database | Latest INSERT operations | Average Latency (us) |
| Workload A | MySQL | 70000 | 430.6788285714286 |
| Workload A | MySQL | 170000 | 412.14645294117645 |
| Workload A | MySQL | 145000 | 413.2812827586207 |
| Workload A | MySQL | 267000 | 426.2298876404494 |
| Workload A | MongoDB | 70000 | 438.973857142857123 |
| Workload A | MongoDB | 170000 | 406.5654470588235 |
| Workload A | MongoDB | 145000 | 426.406475862069 |
| Workload A | MongoDB | 267000 | 427.96294756554306 |

**WorkloadE**

|  |  |  |  |
| --- | --- | --- | --- |
| Workload | Database | Opcount | Throughput (ops.sec) Overall |
| Workload A | MySQL | 70000 | 2045.467827713167 |
| Workload A | MySQL | 170000 | 2244.994981775923 |
| Workload A | MySQL | 145000 | 2311.4200089268634 |
| Workload A | MySQL | 267000 | 2223.4621053771143 |
| Workload A | MongoDB | 70000 | 2024.5842371655822 |
| Workload A | MongoDB | 170000 | 2359.5708357044705 |
| Workload A | MongoDB | 145000 | 2275.116501655343 |
| Workload A | MongoDB | 267000 | 2300.5738510055317 |

Scan Operations vs Average Latency

|  |  |  |  |
| --- | --- | --- | --- |
| Workload | Database | SCAN operations | Average Latency (us) |
| Workload A | MySQL | 66500 | 1556.3206015037595 |
| Workload A | MySQL | 161615 | 1788.9140735699038 |
| Workload A | MySQL | 137936 | 1854.0232064145691 |
| Workload A | MySQL | 253669 | 1816.8365862600476 |
| Workload A | MongoDB | 66564 | 1564.6680788414158 |
| Workload A | MongoDB | 161396 | 1754.3299957867605 |
| Workload A | MongoDB | 137654 | 1782.0035959725108 |
| Workload A | MongoDB | 253655 | 1790.7535786797027 |