

Account数据性能测试

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- 一、压测目的
- 二、环境
- 三、压测数据
 - 3.1 插入性能
 - 3.2 查询性能
 - 3.3 更新性能
- 四、压测结果

在线文档网址：<https://vqyahgc0ksg.feishu.cn/wiki/AFAWwhhEti5Dh3k9Ijgc3uay.nye>

项目文档路径：pandora_svr_proj\doc\压测相关\account表压测\Account数据性能测试.pdf

一、压测目的

测试account表，在mysql下的插入，查询和更新的性能。

二、环境

机器：

- Ubuntu 20.04.1 kernel 5.15.0-1038-azure
- cpu 16核 Intel(R) Xeon(R) Platinum 8370C CPU @ 2.80GHz
- 内存32GB

mysql：

版本：8.0.33

配置：

```
1 innodb_buffer_pool_size = 8G
2 innodb_log_file_size = 512M
3 max_connections = 500
4 sync_binlog = 0
5 max_binlog_size = 100M
```

压力源

同机器下，使用压力工具 Sysbench (apt install sysbench安装)，编写对应的脚本。具体脚本见 svr/Test/Sysbench.

压测指令(同时启动10线程，dbserver配置一致)

```
1  -- 运行200秒 10s打印一次数据
2  sysbench ./account_insert.lua --db-driver=mysql --mysql-
    host=127.0.0.1 --mysql-port=3306 --mysql-user=mmog --mysql-
    password=mmog --mysql-db=pandora_account --threads=10 --
    time=500 --report-interval=10 run
```

三、压测数据

插入100万数据，然后随机查询和修改部分字段，查看结果.

3.1 插入性能

```
[ 10s ] thds: 10 tps: 996.55 qps: 996.55 (r/w/o: 0.00/996.55/0.00) lat (ms,95%): 17.01 err/s: 0.00 reconn/s: 0.00
[ 20s ] thds: 10 tps: 1020.40 qps: 1020.40 (r/w/o: 0.00/1020.40/0.00) lat (ms,95%): 16.12 err/s: 0.00 reconn/s: 0.00
[ 30s ] thds: 10 tps: 1008.37 qps: 1008.37 (r/w/o: 0.00/1008.37/0.00) lat (ms,95%): 17.01 err/s: 0.00 reconn/s: 0.00
[ 40s ] thds: 10 tps: 963.62 qps: 963.62 (r/w/o: 0.00/963.62/0.00) lat (ms,95%): 17.32 err/s: 0.00 reconn/s: 0.00
[ 50s ] thds: 10 tps: 927.48 qps: 927.48 (r/w/o: 0.00/927.48/0.00) lat (ms,95%): 18.28 err/s: 0.00 reconn/s: 0.00
[ 60s ] thds: 10 tps: 973.83 qps: 973.83 (r/w/o: 0.00/973.83/0.00) lat (ms,95%): 17.32 err/s: 0.00 reconn/s: 0.00
[ 70s ] thds: 10 tps: 937.68 qps: 937.68 (r/w/o: 0.00/937.68/0.00) lat (ms,95%): 17.63 err/s: 0.00 reconn/s: 0.00
[ 80s ] thds: 10 tps: 927.75 qps: 927.75 (r/w/o: 0.00/927.75/0.00) lat (ms,95%): 18.28 err/s: 0.00 reconn/s: 0.00
[ 90s ] thds: 10 tps: 984.64 qps: 984.64 (r/w/o: 0.00/984.64/0.00) lat (ms,95%): 16.71 err/s: 0.00 reconn/s: 0.00
[ 100s ] thds: 10 tps: 1005.73 qps: 1005.73 (r/w/o: 0.00/1005.73/0.00) lat (ms,95%): 16.12 err/s: 0.00 reconn/s: 0.00
[ 110s ] thds: 10 tps: 926.47 qps: 926.47 (r/w/o: 0.00/926.47/0.00) lat (ms,95%): 17.63 err/s: 0.00 reconn/s: 0.00
[ 120s ] thds: 10 tps: 995.40 qps: 995.40 (r/w/o: 0.00/995.40/0.00) lat (ms,95%): 16.41 err/s: 0.00 reconn/s: 0.00
[ 130s ] thds: 10 tps: 927.51 qps: 927.51 (r/w/o: 0.00/927.51/0.00) lat (ms,95%): 17.63 err/s: 0.00 reconn/s: 0.00
[ 140s ] thds: 10 tps: 811.39 qps: 811.39 (r/w/o: 0.00/811.39/0.00) lat (ms,95%): 21.50 err/s: 0.00 reconn/s: 0.00
[ 150s ] thds: 10 tps: 961.49 qps: 961.49 (r/w/o: 0.00/961.49/0.00) lat (ms,95%): 17.01 err/s: 0.00 reconn/s: 0.00
[ 160s ] thds: 10 tps: 1009.24 qps: 1009.24 (r/w/o: 0.00/1009.24/0.00) lat (ms,95%): 15.83 err/s: 0.00 reconn/s: 0.00
```

3.2 查询性能

```
[ 10s ] thds: 10 tps: 67260.69 qps: 67260.69 (r/w/o: 67260.69/0.00/0.00) lat (ms,95%): 0.18 err/s: 0.00 reconn/s: 0.00
[ 20s ] thds: 10 tps: 67602.23 qps: 67602.23 (r/w/o: 67602.23/0.00/0.00) lat (ms,95%): 0.17 err/s: 0.00 reconn/s: 0.00
[ 30s ] thds: 10 tps: 67063.32 qps: 67063.32 (r/w/o: 67063.32/0.00/0.00) lat (ms,95%): 0.18 err/s: 0.00 reconn/s: 0.00
[ 40s ] thds: 10 tps: 67121.03 qps: 67121.03 (r/w/o: 67121.03/0.00/0.00) lat (ms,95%): 0.18 err/s: 0.00 reconn/s: 0.00
[ 50s ] thds: 10 tps: 66614.12 qps: 66614.12 (r/w/o: 66614.12/0.00/0.00) lat (ms,95%): 0.18 err/s: 0.00 reconn/s: 0.00
[ 60s ] thds: 10 tps: 66997.63 qps: 66997.63 (r/w/o: 66997.63/0.00/0.00) lat (ms,95%): 0.18 err/s: 0.00 reconn/s: 0.00
[ 70s ] thds: 10 tps: 66612.19 qps: 66612.19 (r/w/o: 66612.19/0.00/0.00) lat (ms,95%): 0.18 err/s: 0.00 reconn/s: 0.00
[ 80s ] thds: 10 tps: 67467.06 qps: 67467.06 (r/w/o: 67467.06/0.00/0.00) lat (ms,95%): 0.17 err/s: 0.00 reconn/s: 0.00
```

3.3 更新性能

```
[ 10s ] thds: 10 tps: 1016.42 qps: 1016.42 (r/w/o: 0.00/1016.42/0.00) lat (ms,95%): 15.00 err/s: 0.00 reconn/s: 0.00
[ 20s ] thds: 10 tps: 1059.70 qps: 1059.70 (r/w/o: 0.00/1059.70/0.00) lat (ms,95%): 13.95 err/s: 0.00 reconn/s: 0.00
[ 30s ] thds: 10 tps: 979.53 qps: 979.53 (r/w/o: 0.00/979.53/0.00) lat (ms,95%): 16.41 err/s: 0.00 reconn/s: 0.00
[ 40s ] thds: 10 tps: 1059.76 qps: 1059.76 (r/w/o: 0.00/1059.66/0.10) lat (ms,95%): 15.00 err/s: 0.00 reconn/s: 0.00
[ 50s ] thds: 10 tps: 1078.43 qps: 1078.43 (r/w/o: 0.00/1078.43/0.00) lat (ms,95%): 13.70 err/s: 0.00 reconn/s: 0.00
[ 60s ] thds: 10 tps: 1068.00 qps: 1068.00 (r/w/o: 0.00/1068.00/0.00) lat (ms,95%): 14.73 err/s: 0.00 reconn/s: 0.00
[ 70s ] thds: 10 tps: 1046.17 qps: 1046.17 (r/w/o: 0.00/1046.17/0.00) lat (ms,95%): 14.21 err/s: 0.00 reconn/s: 0.00
```

四、压测结果

	select	insert	update
tps	37000	950	1050

插入和更新操作tps较低，无法满足百万的account数据。