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1123_2024 软件测试性能部分完善

完成软件测试期末作业:

代码部分:

```
目前环境搭建完成
python uniitetst 测试基本完成
还差一个性能测试
整理ppt,补充完成
```

环境说明:

测试环境:

```
root@1d3592ad9fbd:/# cat /etc/os-release
PRETTY_NAME="Debian GNU/Linux 8 (jessie)"
NAME="Debian GNU/Linux"
VERSION_ID="8"
VERSION="8 (jessie)"
ID=debian
HOME_URL="http://www.debian.org/"
SUPPORT_URL="http://www.debian.org/support"
BUG_REPORT_URL="https://bugs.debian.org/
```

```
(venv) root@caisn-ubuntu24-1121:/home/caisn/caisn/mysql# docker exec -it csn-mysql2 bas
h
root@1d3592ad9fbd:/# cat /etc/os-release
PRETTY_NAME="Debian GNU/Linux 8 (jessie)"
NAME="Debian GNU/Linux"
VERSION_ID="8"
VERSION="8 (jessie)"
ID=debian
HOME_URL="http://www.debian.org/"
SUPPORT_URL="http://www.debian.org/support"
BUG_REPORT_URL="https://bugs.debian.org/"
root@1d3592ad9fbd:/#
```



CPU 核数: 给虚拟机设置处理器为8, 每个处理器内核数量为1

性能测试部分:

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参考教程: https://www.cnblogs.com/xulinforDB/p/17496223.html https://blog.csdn.net/weixin_41287260/article/details/130473382

测试环境: 使用MYSQL 自带的性能压力测试工具mysqlslap进行测试;

运行命令:

```
docker exec -it csn-mysql2 mysqlslap -u root -p --concurrency=8 --iterations=1000
--create-schema=test
Enter password:

Benchmark

Average number of seconds to run all queries: 0.016 seconds
Minimum number of seconds to run all queries: 0.011 seconds
Maximum number of seconds to run all queries: 0.032 seconds
Number of clients running queries: 8
Average number of queries per client: 0
```

用户数: 8 测试语句: 1000

```
(venv) root@caisn-ubuntu24-1121:/home/caisn/caisn/mysql# docker exec -it csn-mysql2 mys
qlslap -u root -p --concurrency=8 --iterations=1000 --create-schema=test --auto-generat
e-sql
Enter password:

Benchmark
    Average number of seconds to run all queries: 0.016 seconds
    Minimum number of seconds to run all queries: 0.011 seconds
    Maximum number of seconds to run all queries: 0.032 seconds
    Number of clients running queries: 8
    Average number of queries per client: 0
```

docker exec -it csn-mysql2 mysqlslap -u root -p --concurrency=8 --iterations=1000
--create-schema=test --auto-generate-sql

测试语句设置为: 2000, 并行客户端:8

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测试语句设置为2000,并行客户端设置为:16

测试语句设置为2000, 并行客户端设置为:4 -- 这里并行书2/4是最快的, 可能数据量还不够大

测试语句设置为2000,并行客户端设置为:2

```
(venv) root@caisn-ubuntu24-1121:/home/caisn/caisn/mysql# docker exec -it csn-mysql2 mys
qlslap -u root -p --concurrency=2 --iterations=2000 --create-schema=test --auto-generat
e-sql
Enter password:

Benchmark
    Average number of seconds to run all queries: 0.007 seconds
    Minimum number of seconds to run all queries: 0.004 seconds
    Maximum number of seconds to run all queries: 0.042 seconds
    Number of clients running queries: 2
    Average number of queries per client: 0
```

直接排名第一的关系型数据库oracle的数据: [整理ppt时候附上]:

先整理测试用例一部分: