DATABASE SYSTEM LABS – SQL & PERFORMANCE TEST FOR SUBQUEIRES

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OBJECTIVES

- Comparing the performance of different SQL queries (subqueries)

PREPARE

- MySQL database server
- Python language
  - Access mysql
  - Timing

PREPARE

- Timing on Python3

```
#python3 asscess mysql db
import time
import pymysql
time_start=time.time()
conn = pymysql.connect(host='localhost',
user='mydbuser',password='iammydbuser',database='dblabtest',charset='utf8')
cursor = conn.cursor()
sql = "SELECT ID,name from instructor order by ID"
cursor.execute(sql)
retdata = cursor.fetchall()
print(retdata)
cnt=0
for row in retdata:
        cnt=cnt+1
        myID=row[0]
        myName=row[1]
        print("%d ID:%s\t name:%s" %(cnt, myID, myName))
cursor.close()
conn.close()
time_end=time.time()
time_total=time_end-time_start
print('time cost:',time_total,'s')
```

PREPARE

- Add a large of data into section table
  - Load the sqlperformancetest.sql and execute it

https://github.com/albertleecn/dblabs.git

commit

Github: sqlperformancetest.sql

QUIZ : WAITING

Get from instructor in class

THANKS !