

# **SEMINAR OF BIG DATA GENERATION TECHNIQUES**

Database Research Group, HKPU  
Supported by HK ITF

# TOPIC TODAY

1. YCSB & TPCC
2. BigFrame
3. DBScale

# Database Benchmark

TPCC & YCSB

# Benchmarking

- your database performance
  - how many users?
  - how many transactions?

# TPC-C

- traditional database benchmarking
  - e.g MySQL, MS SQL, Oracle, IBM DB2
- FREE
- generate any size of data
  - simulate any # of users
  - different distribution of queries
    - select? insert? update?
- <http://www.tpc.org/tpcc/>
- <http://oltpbenchmark.com/>

# YCSB

- NoSQL database benchmarking
  - e.g BigTable, HBase, Hypertable, Azure, Cassandra
- FREE
- generate any size of data
  - simulate any # of users
  - different distribution of queries
- [github.com/brianfrankcooper/YCSB/wiki](https://github.com/brianfrankcooper/YCSB/wiki)
- <http://oltpbenchmark.com/>