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# SEMINAR ON BIG DATA GENERATION TECHNIQUES

# DBSCALE: A SYNTHETICALLY DATASET SCALING TOOL

Sponsored by HK ITF | Developed by Database Research Group, HKPU

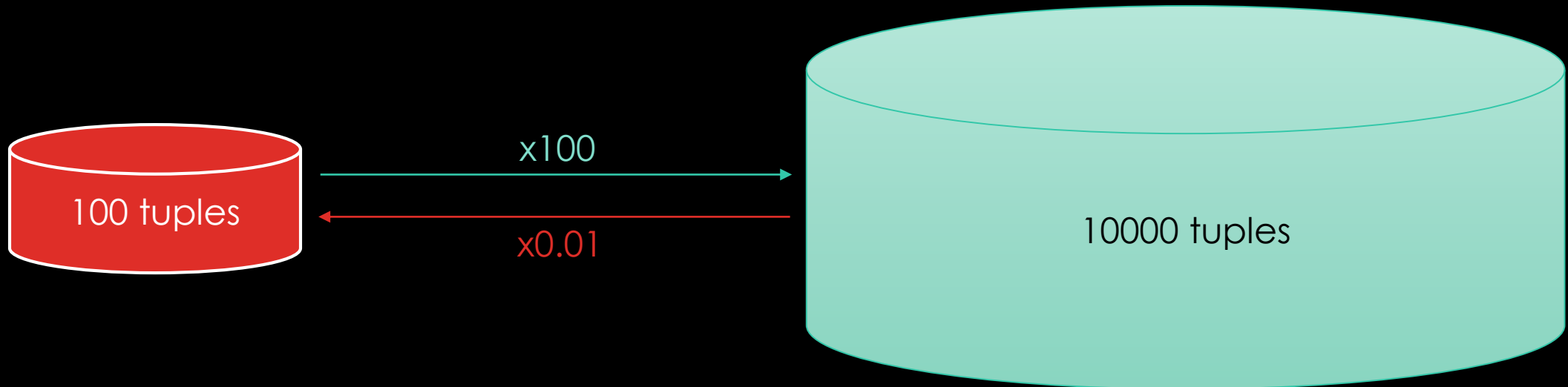
Cliz Sun

# PROMOTION OF DBSCALE

- Why database scaling?
- Why DBScale?
- Demo
- Q&A

# WHY DATABASE SCALING

- What is scaling?



- Scaling helps:
  - Testing & Development
  - Planning
  - Prepare special dataset which is not available by normal generator



# DBSCALE: POWERFUL AND FRIENDLY SCALING TOOL

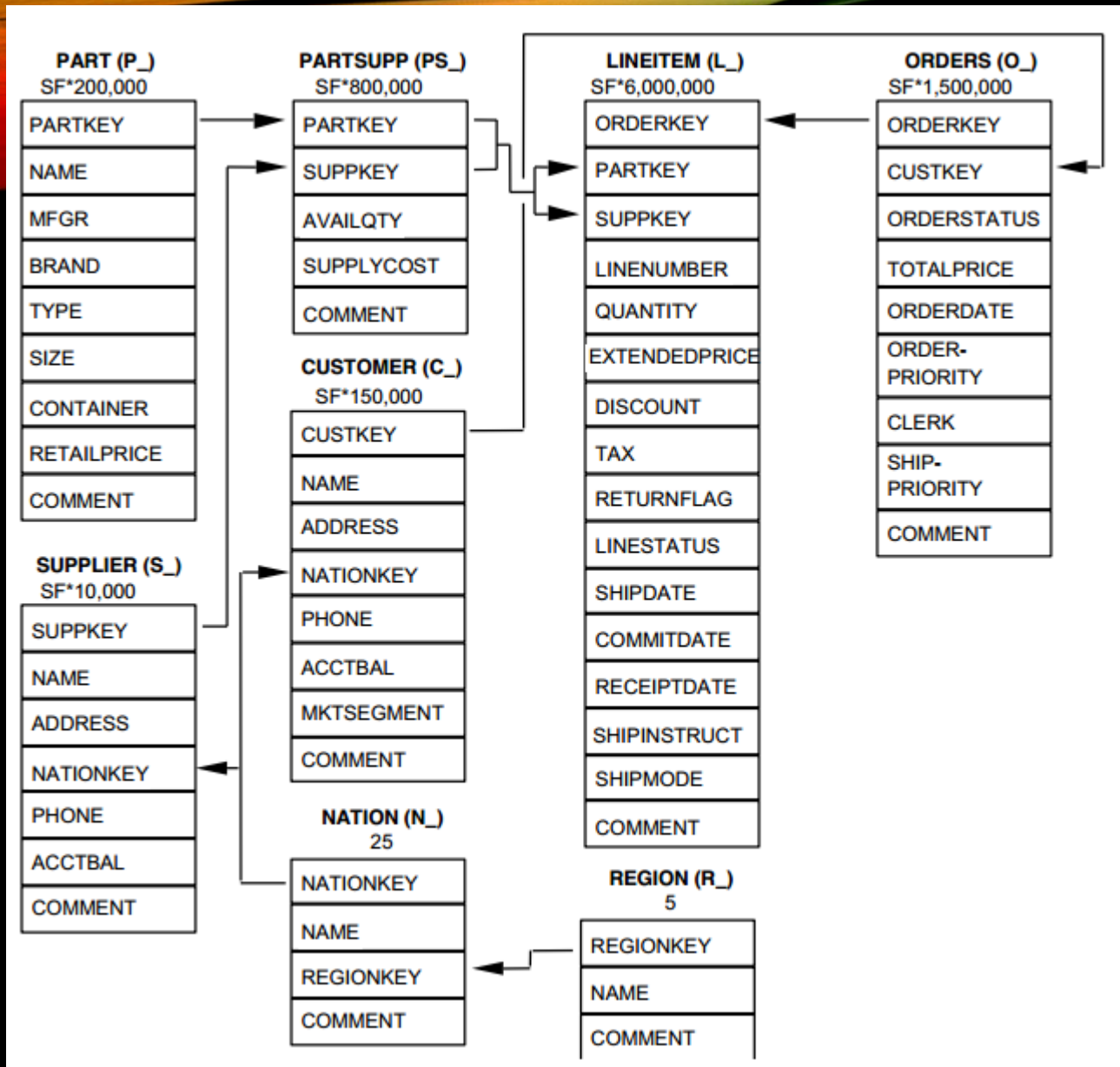
- First tool to do this
- Generate from existing real data
- Keep characteristic (data composition & query results)
- For testing and planning

# SCALE UP WITH DBSCALE

- Test database: a sales warehouse database



# SCHEMA



# SCALE UP WITH DBSCALE

- Demo flow:
  - Show original data
  - Scale up 2x
  - Compare database size
  - Compare query results (of 2 queries)

# INTEGRITY CONSTRAINT

- Set up special rule for generation of column data
- Use formulas:

e.g. DELIVER DATE should be shipping date + 20day

Normal distribution -> not keeping this constraint

Use formula: DATEADD(SHIPDATE, 20) -> guarantee constraint

# Q&A SESSION

## MORE INFORMATION & TRAIL DOWNLOAD AT

- [Http://dbggroup.comp.polyu.edu.hk/?page\\_id=101](http://dbggroup.comp.polyu.edu.hk/?page_id=101)