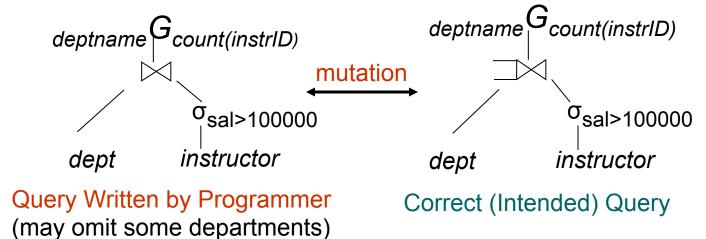


Generating Test Data for Killing SQL Mutants: A Constraint-based Approach

Shah, Sudarshan, Kajbaje, Patidar, Gupta and Vira, IIT Bombay

Goal: Find # of high paid instructors in each department



- Queries validated by running on test data and manually checking results
- Test data typically generated manually and/or in query independent way
 - misses errors (cannot differentiate some mutants)
- We provide a principled approach to generating data
 - based on creating f.o. constraints from query, and solving them
 - with guarantees of "killing" all mutants in a large class of mutations
 - small number of datasets; each dataset small and intuitive
- For the gory details come to talk: (Last day, last show)
 http://www.cse.iitb.ac.in/infolab/xdata

