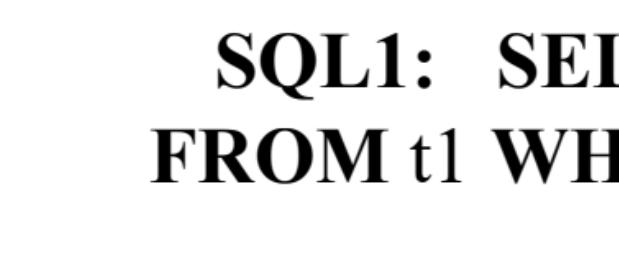


① Populate Database
Tables Randomly

c0	c1
1	2
2	-1



② Generate Original
Query

SQL1: **SELECT MAX(c1)**
FROM t1 WHERE c2<100; --r1

③ Mutated Query Generation
④ Approximation Propagation
Analysis



\subseteq



Value-level under-approximation



Back to ② and iterate