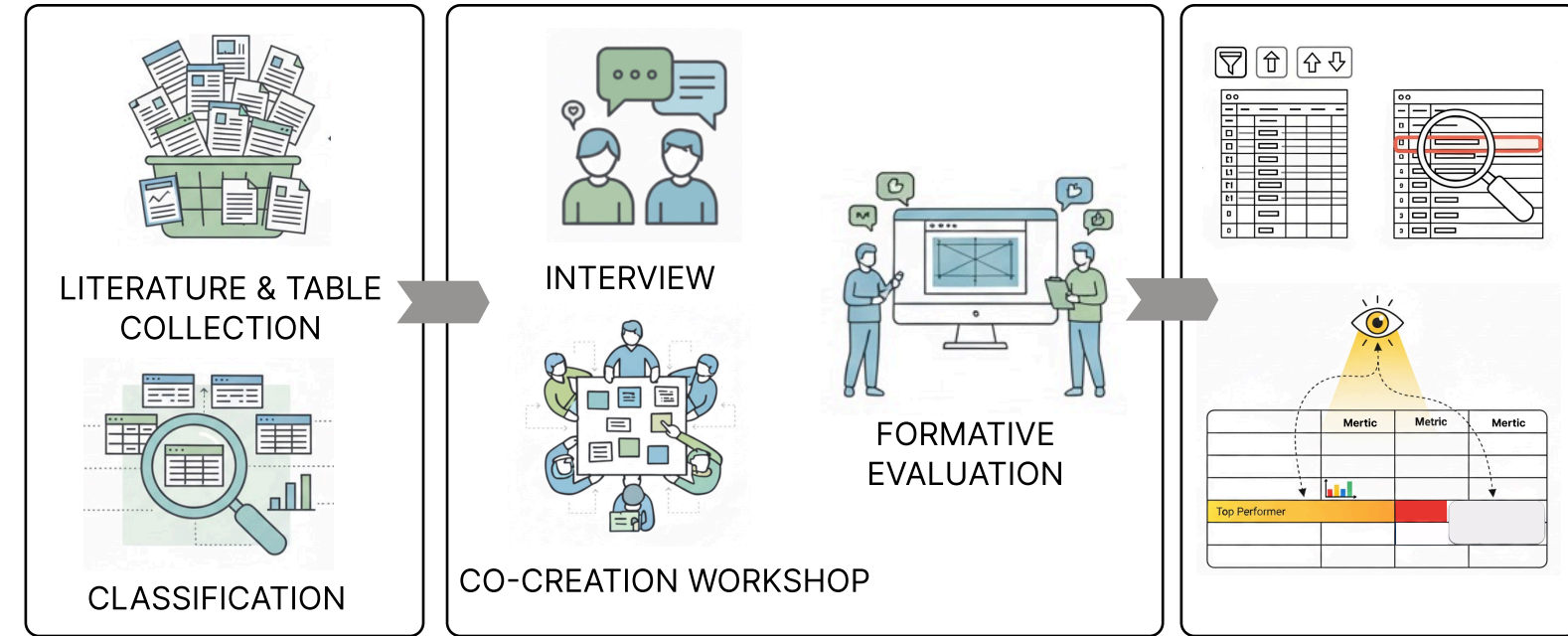


(a) Challenges in Research Table Understanding



(b1)Table Corpus Analysis

(b2) Three-Stage Formative Study

(b3) Design Principle