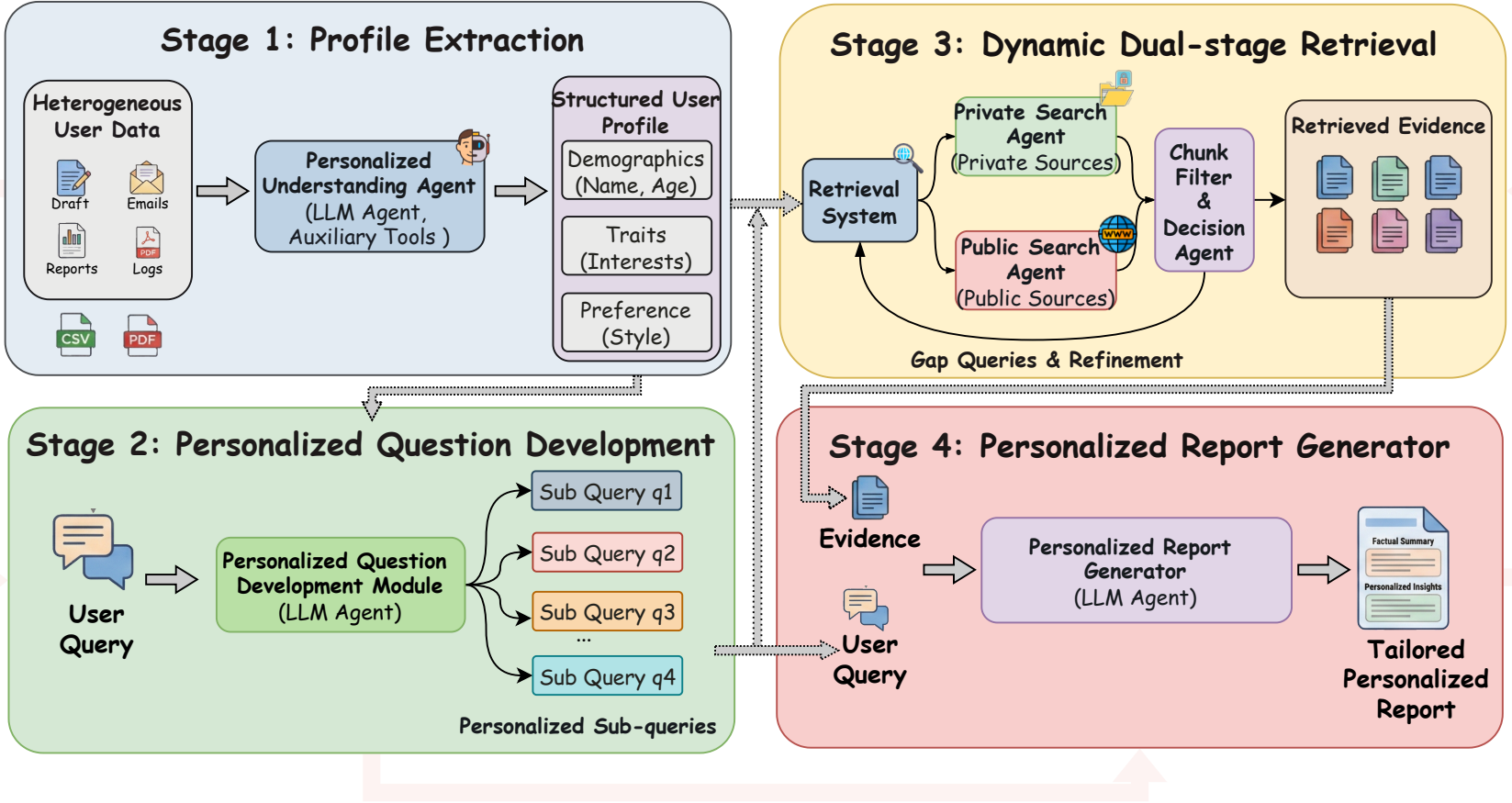
Stage 1: Profile Extraction
Heterogeneous User Data
Draft
Emails
Reports
Logs
CSV
PDF
Personalized Understanding Agent (LLM Agent, Auxiliary Tools)
Structured User Profile
Demographics (Name, Age)
Traits (Interests)
Preference (Style)
Stage 2: Personalized Question Development
User Query
Personalized Question Development Module (LLM Agent)
Sub Query q1
Sub Query q2
Sub Query q3
...
Sub Query q4
Personalized Sub-queries
Stage 3: Dynamic Dual-stage Retrieval
Retrieval System
Private Search Agent (Private Sources)
Public Search Agent (Public Sources)
Chunk Filter & Decision Agent
Retrieved Evidence
Gap Queries & Refinement
Stage 4: Personalized Report Generator
Evidence
User Query
Personalized Report Generator (LLM Agent)
Factual Summary
Personalized Insights
Tailored Personalized Report