

FanOutQA

A benchmark of fan-out questions

 We created FanOutQA to cover this gap in question-answering benchmarks

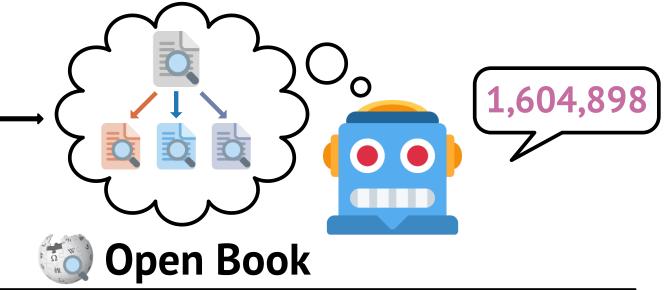
1,034 questions & their decompositions

Multi-hop, multi-document

 Model must use tools to retrieve evidence from Wikipedia

 Average question has 127k tokens of evidence from 7 documents

What is the total number of employees in the five largest banks in the world?





What are the 5 largest banks in the world?



JPMorgan Chase, Bank of America, ..., HDFC Bank



How many employees does JPMorgan Chase have? 308,669



How many employees does HDFC Bank have? 177,000



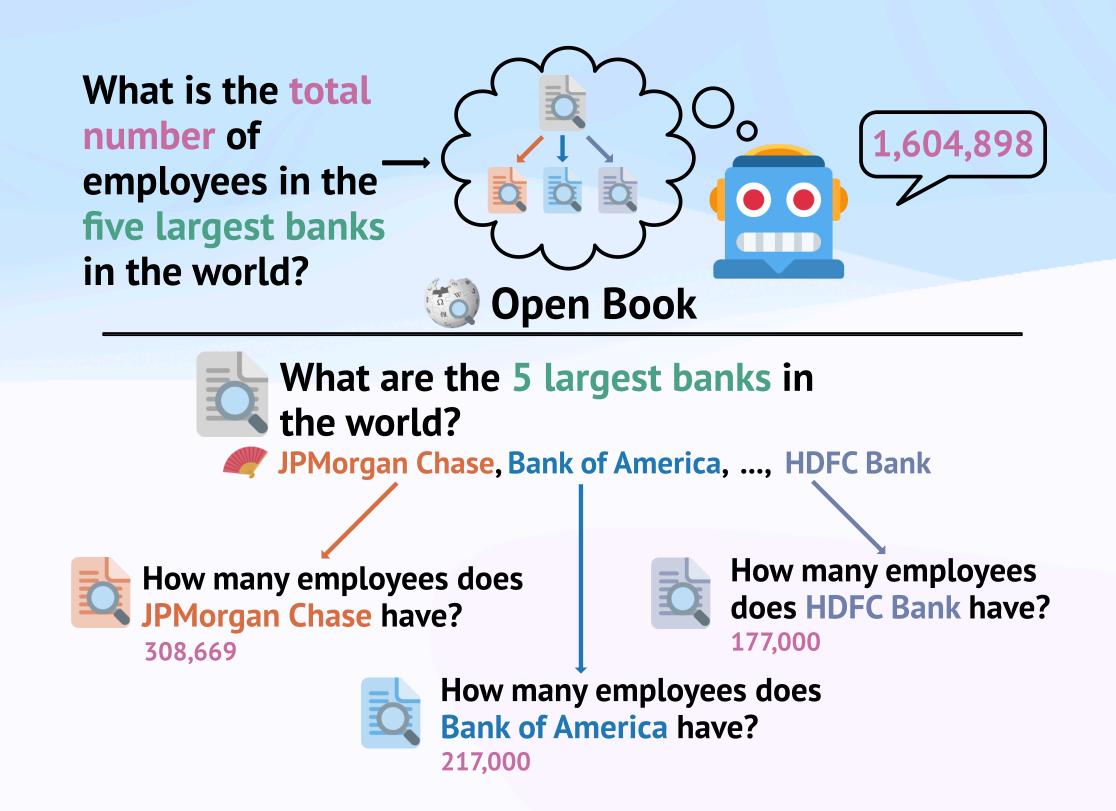
How many employees does Bank of America have? 217,000

ACL 2024

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ACL 2024

Benchmarking ReDel

Final list of benchmarks

Benchmark	Task	Tools	Example Query
FanOutQA (Zhu et al., 2024b)	Factual question- answering with retrieval tools	Wikipedia Article Search, Retrieve Wikipedia Article	What is the total number of employees in the five largest banks in the world?
TravelPlanner (Xie et al., 2024)	Creation of a structured travel plan that meets hard and commonsense constraints	Search Flights, Calculate Taxi Cost, Search Accommodations, Search Restaurants, Search At- tractions, List Cities in State	Please help me plan a trip from St. Petersburg to Rockford spanning 3 days from March 16th to March 18th, 2022. The travel should be planned for a single person with a budget of \$1,700.
WebArena (Zhou et al., 2024a)	Interaction with a web browser – mix of informa- tion seeking and artifact creation	Click, Type, Hover, Press Key, Scroll, Open New Tab, Change Focused Tab, Close Tab, Go To URL, Go Back, Go Forward	Show me the ergonomic chair with the best rating