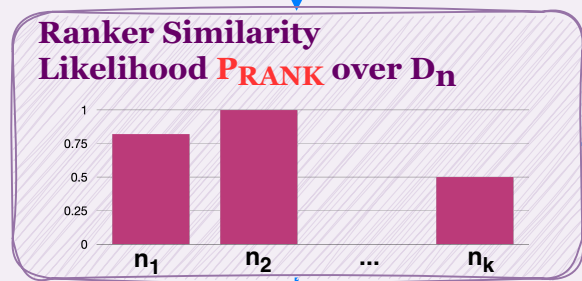
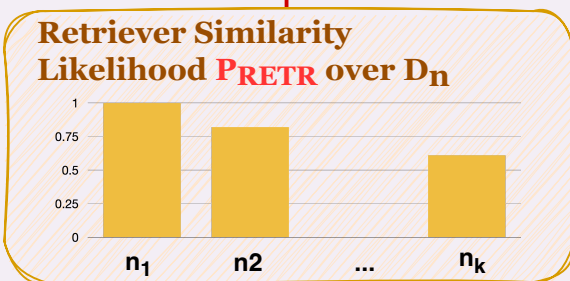
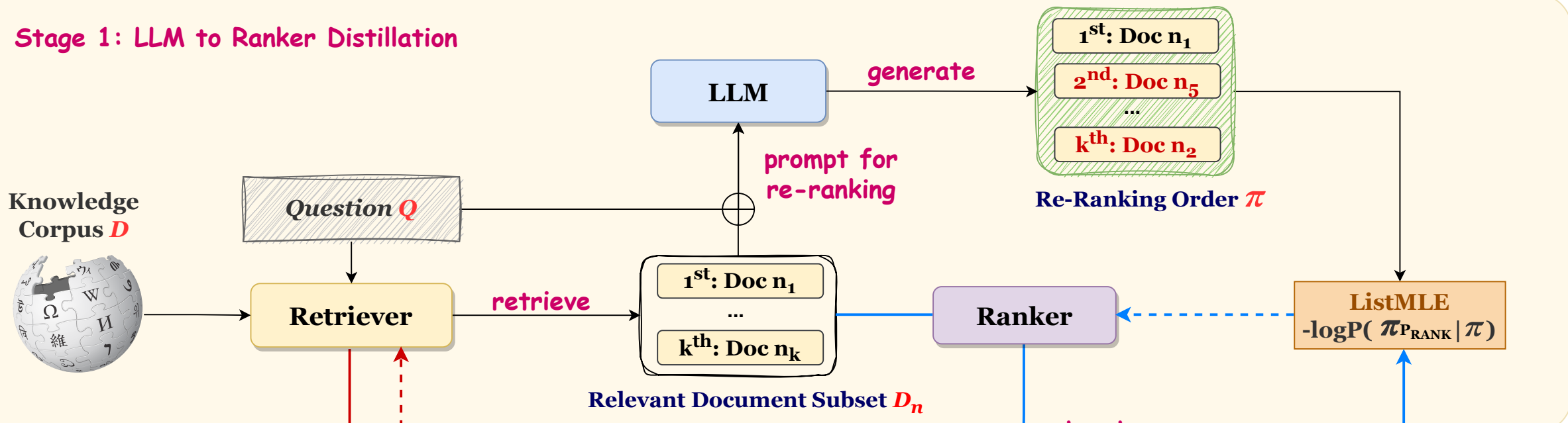


## Stage 1: LLM to Ranker Distillation



**KL Divergence**  
 $KL(P_{\text{RANK}} || P_{\text{RETR}})$

## Stage 2: Ranker to Retriever Distillation

