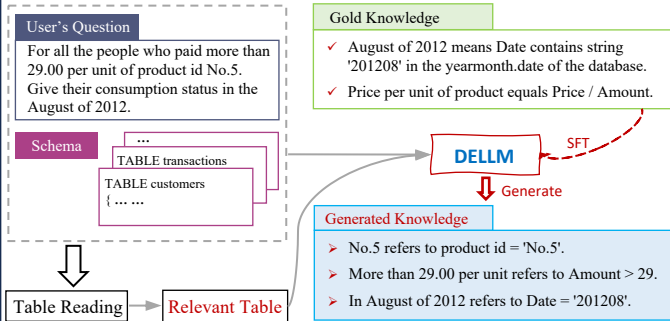


# Knowledge-to-SQL Framework



## Framework of Data Expert LLM (DELLM)



## Preference Learning via Database Feedback (PLDBF)

