Question Bank for Experiment 1

**Question based on paper**

1. **Problem Identification**: What specific challenges in data cleaning for Electronic Health Records (EHRs) does this paper address?
2. **Methodology**: How does the proposed method incorporate clinical knowledge to automate data cleaning?

What are the key steps in the method?

1. **Algorithms**: Can you explain the algorithms or models used in this data cleaning method?
2. **Evaluation**: How was the effectiveness of the data cleaning method evaluated? What metrics were used?
3. **Clinical Impact**: How does this automated data cleaning improve the use of EHRs in clinical settings?
4. **Comparison**: How does this method compare to other existing data cleaning techniques for EHRs?
5. **Limitations**: What are the limitations of this approach as discussed in the paper?
6. **Future Work**: What future improvements or expansions are suggested for this research?

**Question Based on Experiment**

* 1. What is the primary goal of cleaning, integrating, and transforming EHRs in your experiment?
  2. Which types of healthcare data were used in your experiment? How did you handle different formats?
  3. What methods did you use to handle missing data, duplicates, and outliers in the EHRs?
  4. How did you approach schema matching and entity resolution for data from different sources?
  5. What features did you create from the cleaned and integrated EHR data, and how did they improve analysis?
  6. Did you apply any Natural Language Processing (NLP) techniques for clinical notes? How effective were they?
  7. Can you explain the process of time-series transformation in your experiment? How did you aggregate time-series data?
  8. How did you validate the quality of your integrated data? What metrics did you use to evaluate its consistency?
  9. What challenges did you face during the integration of multiple EHR systems? How did you overcome them?
  10. How did you ensure the de-identification of patient data during cleaning and transformation?