```
// Representative ontology-guided Cypher query for KG-grounded LLM
data generation
MATCH (n {写法: $query_str})-[r]-(related)
WHERE NOT '引用及出处' IN labels(related)
RETURN
    n,
    related,
    labels(related) AS relatedLabels,
    type(r) AS relationshipType,
    null AS explanation,
    null AS chapterUnit,
    null AS book,
    null AS sourceAuthor,
    null AS bookAuthor,
    null AS sourceDynasty,
    null AS bookDynasty

UNION ALL

MATCH (n {写法: $query_str})-[r]-(related)
WHERE '引用及出处' IN labels(related)
OPTIONAL MATCH (explanation) -[:解释]->(related)
OPTIONAL MATCH (related) -[:出处]->(chapterUnit)
OPTIONAL MATCH ( chapterUnit)-[:所属]->(book)
OPTIONAL MATCH ( sourceAuthor)-[:作者]->(chapterUnit)
OPTIONAL MATCH ( sourceAuthor)-[:属于朝代]->(sourceDynasty)
OPTIONAL MATCH ( bookAuthor)-[:作者]->(book)
OPTIONAL MATCH ( bookAuthor)-[:属于朝代]->(bookDynasty)
RETURN
    n,
    related,
    labels(related) AS relatedLabels,
    type(r) AS relationshipType,
    explanation,
    chapterUnit,
    book,
    sourceAuthor,
    bookAuthor,
    sourceDynasty,
    bookDynasty
```

Supplementary Figure S3: The ontology-guided Cypher query. Figure S3 presents a representative ontology-guided Cypher query used to retrieve a local evidence subgraph for KG-grounded LLM question generation. In the actual pipeline, the retrieved subgraph was serialized into JSON and supplied to the LLM as structured evidence input, so that question generation remained grounded in the retrieved graph context rather than unconstrained parametric knowledge.