Chatty-Gen Supplementary Materials

1 Prompts

1.1 Choosing Entity Predicate

```
# Instruction:
Given the specified node type and its associated
predicates, choose a suitable predicate to be used to
extract labels for this type.

# Input:
node type:
predicates:

# Response:
```

Listing 1: Choosing representative predicate for type prompt

1.2 Generating Self-Contained questions

```
# Instruction:
Generate a list of questions based on the given entity
and its subgraph. The subgraph is represented as a
list of triples. Each question must ask about a fact
from the triples in the subgraph and must fall into
one of the following categories: list, count, boolean,
wh (open-ended), or date-related questions. Each
question must include the entity. Each question must
be answerable solely from the information in the
provided subgraph without explicitly mentioning it.

# Input:
Entity:
Subgraph:
number of questions:

```

```
# Response:
```

Listing 2: Generating independent questions prompt

1.3 Generating Self-Contained Questions With Triples

```
# Instruction:
{Question Generation Prompt}
For each question, choose the triples from the input
subgraph which was used to generate the question.
Return both the question and the exact triple from the
subgraph that it was based on.

# Input:
Entity:
Subgraph:
number of questions:

# Response:
```

Listing 3: Generating Independent Questions Prompt with Triples

1.4 Generating SPARQL Queries

```
# Instruction:
Given a question and set of triples used to generate
this question. Create the SPARQL query representing
the question. Do not include the answer in the query.

# Input:
Question:
Triples:

# Response:
```

Listing 4: Generating SPARQL query from Question and Triples

1.5 Generating Dialogue

```
# Instruction:
Given an entity and a set of questions focused on this
entity, choose the appropriate pronoun that refers to
it. Replace the entity with its pronoun in the
questions and return the modified questions.  Ensure
that the modified questions do not contain the
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original entity and that the pronoun used in the
modified questions is contextually appropriate and
grammatically correct.

# Input:
Questions:
Seed Entity:

# Response:
```

Listing 5: Generating SPARQL query from Question and Triples

1.6 A Single Prompt Approach

```
# Instruction:
Generate a set of questions, a dialogue and sparqls
based on the provided entity and its subgraph. The
subgraph is represented as a varied list of triples.
Each question should be a fact from the triples in the
subgraph and fall into one of the following categories
: list, count, boolean, wh (open-ended), or
date-related questions. Each question should have the
entity and be answerable solely from the information
in the provided subgraph without explicitly mentioning
it. For the generated questions, generate a
corresponding dialogue where the first is standalone
and subsequent questions with replaced entity with its
pronoun. And a list of SPARQL queries that retrieves
answers. Return the following: questions, dialogue,
and SPARQL queries.

# Input:
Entity:
Subgraph:
number of questions:

# Response:
```

Listing 6: Generating Benchmark (standalone questions-SPARQL queries-Dialogue questions) using a single prompt