

Chatty-Gen Supplementary Materials

1 Prompts

1.1 Choosing Entity Predicate

```
1 # Instruction:
2 Given the specified node type and its associated
3 predicates, choose a suitable predicate to be used to
4 extract labels for this type.
5
6 # Input:
7 node type:
8 predicates:
9
10 # Response:
```

Listing 1: Choosing representative predicate for type prompt

1.2 Generating Independent questions

```
1 # Instruction:
2 Generate a list of questions based on the given entity
3 and its subgraph. The subgraph is represented as a
4 list of triples. Each question must ask about a fact
5 from the triples in the subgraph and must fall into
6 one of the following categories: list, count, boolean,
7 wh (open-ended), or date-related questions. Each
8 question must include the entity. Each question must
9 be answerable solely from the information in the
10 provided subgraph without explicitly mentioning it.
11
12 # Input:
13 Entity:
14 Subgraph:
15 number of questions:
16
```

```
17 # Response:
```

Listing 2: Generating independent questions prompt

1.3 Generating Independent questions with Triples

```
1 # Instruction:
2 {Question Generation Prompt}
3 For each question, choose the triples from the input
4 subgraph which was used to generate the question.
5 Return both the question and the exact triple from the
6 subgraph that it was based on.
7
8 # Input:
9 Entity:
10 Subgraph:
11 number of questions:
12
13 # Response:
```

Listing 3: Generating Independent Questions Prompt with Triples

1.4 Generating SPARQL queries

```
1 # Instruction:
2 Given a question and set of triples used to generate
3 this question. Create the SPARQL query representing
4 the question. Do not include the answer in the query.
5
6 # Input:
7 Question:
8 Triples:
9
10 # Response:
```

Listing 4: Generating SPARQL query from Question and Triples

1.5 Generating Dialogue

```
1 # Instruction:
2 Given an entity and a set of questions focused on this
3 entity, choose the appropriate pronoun that refers to
4 it. Replace the entity with its pronoun in the
5 questions and return the modified questions. Ensure
6 that the modified questions do not contain the
```

```

7 original entity and that the pronoun used in the
8 modified questions is contextually appropriate and
9 grammatically correct.
10
11 # Input:
12 Questions:
13 Seed Entity:
14
15 # Response:

```

Listing 5: Generating SPARQL query from Question and Triples

1.6 Single Shot Prompt

```

1 # Instruction:
2 Generate a set of questions, a dialogue and sparqls
3 based on the provided entity and its subgraph. The
4 subgraph is represented as a varied list of triples.
5 Each question should be a fact from the triples in the
6 subgraph and fall into one of the following categories
7 : list, count, boolean, wh (open-ended), or
8 date-related questions. Each question should have the
9 entity and be answerable solely from the information
10 in the provided subgraph without explicitly mentioning
11 it. For the generated questions, generate a
12 corresponding dialogue where the first is standalone
13 and subsequent questions with replaced entity with its
14 pronoun. And a list of SPARQL queries that retrieves
15 answers. Return the following: questions, dialogue,
16 and SPARQL queries.
17
18 # Input:
19 Entity:
20 Subgraph:
21 number of questions:
22
23 # Response:

```

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