CLAIMS

1. A method for generating one or more database queries based on a natural language input data, the method comprising:

configuring, using a conversational AI editing module, information required to complete a task-oriented dialogue;

parsing the configured information based on a database schema to obtain a parsed database schema; and

generating the one or more database queries using the parsed database schema and the natural language input data using a natural language question-answering system.

2. The method of claim 1, wherein the natural language question-answering system is a table question-answering (TableQA) system or a knowledge-graph question-answering system.

3. The method of claim 1 or 2, further comprising retrieving at least one database entry from an associated database based on the one or more database queries.

4. The method of claim 3, wherein the at least one database entry comprises a table, the table having at least one row and at least one column.

5. The method of claim 4, further comprising determining, based on the at least one database entry, whether there are multiple possible values in response to the natural language input data based on the table.

6. The method of claim 5, wherein in a positive determination there are multiple possible values in response to the natural language input data, the natural language question-answering system is configured to generate clarification information in response to the natural language input data.

7. The method of any one of claims 1 to 6, wherein the natural language input data comprises at least one of a text-based data and/or an audio data.

8. The method of any one of claims 1 to 7, wherein the natural language input data is parsed using a Structured Query Language (SQL) database schema, and the generated one or more database queries include a SQL query.

9. The method of any one of claims 1 to 7, wherein the natural language input data is parsed using a resource description framework schema, and the generated one or more database queries include a SPARQL query.

10. The method of any one of claims 1 to 9, wherein the conversational AI editing module comprises a chatbot dialogue flow editor module.

11. A system for generating one or more database queries based on a natural language input data, the system comprises at least one processor configured to:

configure information required to complete a task-oriented dialogue;

parse the configured information based on a database schema to obtain a parsed database schema; and

generate the one or more database queries using the parsed database schema and the natural language input data using a natural language question-answering system.

12. The system of claim 11, wherein the natural language question-answering system is a table question-answering (Table QA) system or a knowledge-graph question-answering system.

13. The system of claims 11 or 12, wherein the at least one processor is configured to retrieve at least one database entry from an associated database based on the one or more database queries.

14. The system of claim 13, wherein the at least one database entry comprises a table, the table having at least one row and at least one column.

15. The system of any one of claims 11 to 14, wherein the at least one processor is configured to determine, based on the at least one database entry, whether there are multiple possible values in response to the natural language input data based on the table.

16. The system of claim 15, wherein in a positive determination there are multiple possible values in response to the natural language input data, the natural language question-answering system is configured to generate clarification information in response to the natural language input data.

17. The system of any one of claims 11 to 16, wherein the natural language input data comprises at least one of a text-based data and/or an audio data.

18. The system of any one of claims 11 to 17, wherein the natural language input data is parsed using a Structured Query Language (SQL) database schema, and the generated one or more database queries include a SQL query.

19. The system of any one of claims 11 to 17, wherein the natural language input data is parsed using a resource description framework schema, and the generated one or more database queries include a SPARQL query.

20. The system of any one of claims 11 to 19, wherein the at least one processor comprises a chatbot dialogue flow editor module, the chatbot dialogue flow editor module configured to define information required to complete a task-oriented dialogue based on the natural language input data; a database schema parser module configured to parse the natural language input data based on a database schema to obtain a parsed database schema; and a TableQA module configured to generate the one or more database queries using the parsed database schema and the natural language input data using a natural language question-answering system.

21. A chatbot system, the chatbot system comprises

a question-answering module, the question-answering module configured to:

configure information required to complete a task-oriented dialogue;

parse the configured information based on a database schema to obtain a parsed database schema;

generate the one or more database queries using the parsed database schema and the natural language input data using a natural language question-answering system;

retrieve at least one database entry from an associated database based on the one or more database queries; and

compare the at least one database entry with the information required to complete the task-oriented dialogue.

22. A computer program element comprising program instructions, which, when executed by one or more processors, cause the one or more processors to perform the method of any one of claims 1 to 10.

23. A computer-readable medium comprising program instructions, which, when executed by one or more processors, cause the one or more processors to perform the method of any one of claims 1 to 10.