

```
chain_of(
  with_elements(load_postgres_table(("public", "patient"), ["id"], [Int32])),
  flatten())
```



[illegible]







The diagram illustrates a neural network architecture for SQL query generation, showing a sequence of operations and their corresponding symbolic representations. The architecture is divided into two main parts: a sequence of operations (left) and a sequence of symbolic representations (right).

Sequence of Operations (Left):

- Input:** A sequence of tokens (represented by blue squares) is fed into the network.
- Embedding:** The input tokens are embedded into a sequence of vectors (represented by green circles).
- Flatten:** The embedded sequence is flattened into a single vector (represented by a green circle).
- Cardinality:** The flattened vector is processed by a `cardinality()` operation (represented by a green circle).
- Load Table:** The output of the `cardinality()` operation is used to load a table (represented by a green circle).
- Load Table:** The output of the `load_table()` operation is used to load another table (represented by a green circle).
- Output:** The final output of the network is generated (represented by a green circle).

Sequence of Symbolic Representations (Right):

- BlockOf:** The symbolic representation of the `BlockOf` operation (represented by a blue circle).
- EntityShape:** The symbolic representation of the `EntityShape` operation (represented by a blue circle).
- TupleOf:** The symbolic representation of the `TupleOf` operation (represented by a blue circle).
- Int32:** The symbolic representation of the `Int32` operation (represented by a blue circle).
- String:** The symbolic representation of the `String` operation (represented by a blue circle).

The diagram shows how the sequence of operations is mapped to the sequence of symbolic representations, illustrating the network's ability to generate SQL queries from a sequence of tokens.













