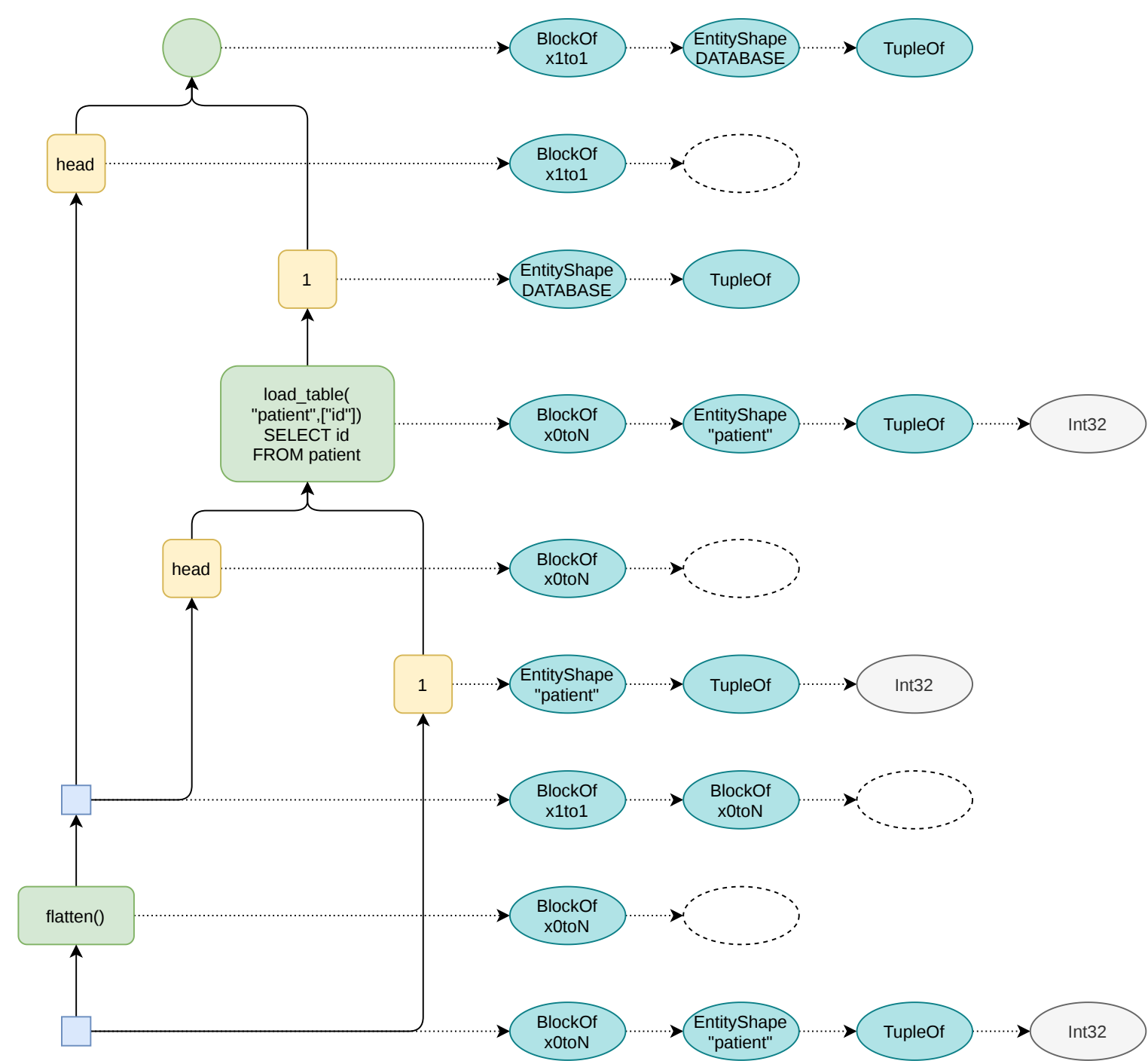


```
chain_of(
  with_elements(load_postgres_table(("public", "patient"), ["id"], [Int32])),
  flatten())
```



```
chain_of(with_elements(load_postgres_table(("public", "patient"), ["id"], [Int32])),
  flatten(),
  with_elements(
    chain_of(
      load_postgres_table(("public", "patient"), ["mrn"], [String], ["id"]),
      block_cardinality(x1to1))),
  flatten()),
  with_elements(
    chain_of(
      output(),
      column(1))))
```









The diagram illustrates the mapping of a SQL query to a graph structure. The left side shows the query logic, and the right side shows the resulting data structure.

**SQL Query:**

```
load_table('patient', ['id'])
SELECT id
FROM patient;

load_table('patient', ['mrm'], ['id'])
SELECT min
FROM patient
WHERE id = ?;

cardinality(x1to1);

flatten();

output();

column(1);
```

**Graph Structure:**

The graph structure on the right maps the operations to a graph. The nodes are represented by colored ovals, and the edges represent the relationships between them.

- BlockOf x1to1** (blue oval) maps to **EntityShape DATABASE** (blue oval), which maps to **TupleOf** (blue oval).
- BlockOf x1to1** (blue oval) maps to an empty dashed oval.
- EntityShape DATABASE** (blue oval) maps to **TupleOf** (blue oval).
- BlockOf x0toN** (blue oval) maps to **EntityShape "patient"** (blue oval), which maps to **TupleOf** (blue oval), which maps to **Int32** (grey oval).
- BlockOf x0toN** (blue oval) maps to an empty dashed oval.
- EntityShape "patient"** (blue oval) maps to **TupleOf** (blue oval), which maps to **Int32** (grey oval).
- BlockOf x0toN** (blue oval) maps to **EntityShape "patient"** (blue oval), which maps to **TupleOf** (blue oval), which maps to **String** (grey oval).
- BlockOf x0toN** (blue oval) maps to an empty dashed oval.
- EntityShape "patient"** (blue oval) maps to **TupleOf** (blue oval), which maps to **String** (grey oval).
- BlockOf x1to1** (blue oval) maps to an empty dashed oval.
- BlockOf x0toN** (blue oval) maps to **BlockOf x1to1** (blue oval), which maps to an empty dashed oval.
- BlockOf x0toN** (blue oval) maps to an empty dashed oval.
- BlockOf x1to1** (blue oval) maps to **BlockOf x0toN** (blue oval), which maps to an empty dashed oval.
- BlockOf x0toN** (blue oval) maps to an empty dashed oval.
- EntityShape "patient"** (blue oval) maps to an empty dashed oval.
- TupleOf** (blue oval) maps to **String** (grey oval).
- TupleOf** (blue oval) maps to an empty dashed oval.
- String** (grey oval) maps to an empty dashed oval.
- String** (grey oval) maps to an empty dashed oval.
- BlockOf x0toN** (blue oval) maps to **String** (grey oval).













