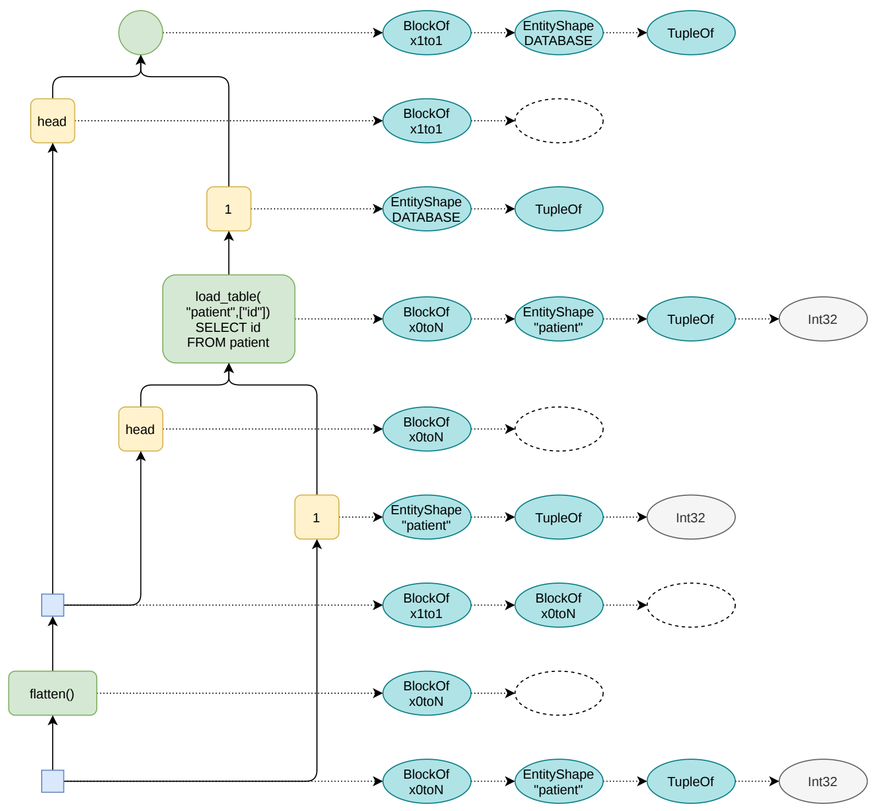
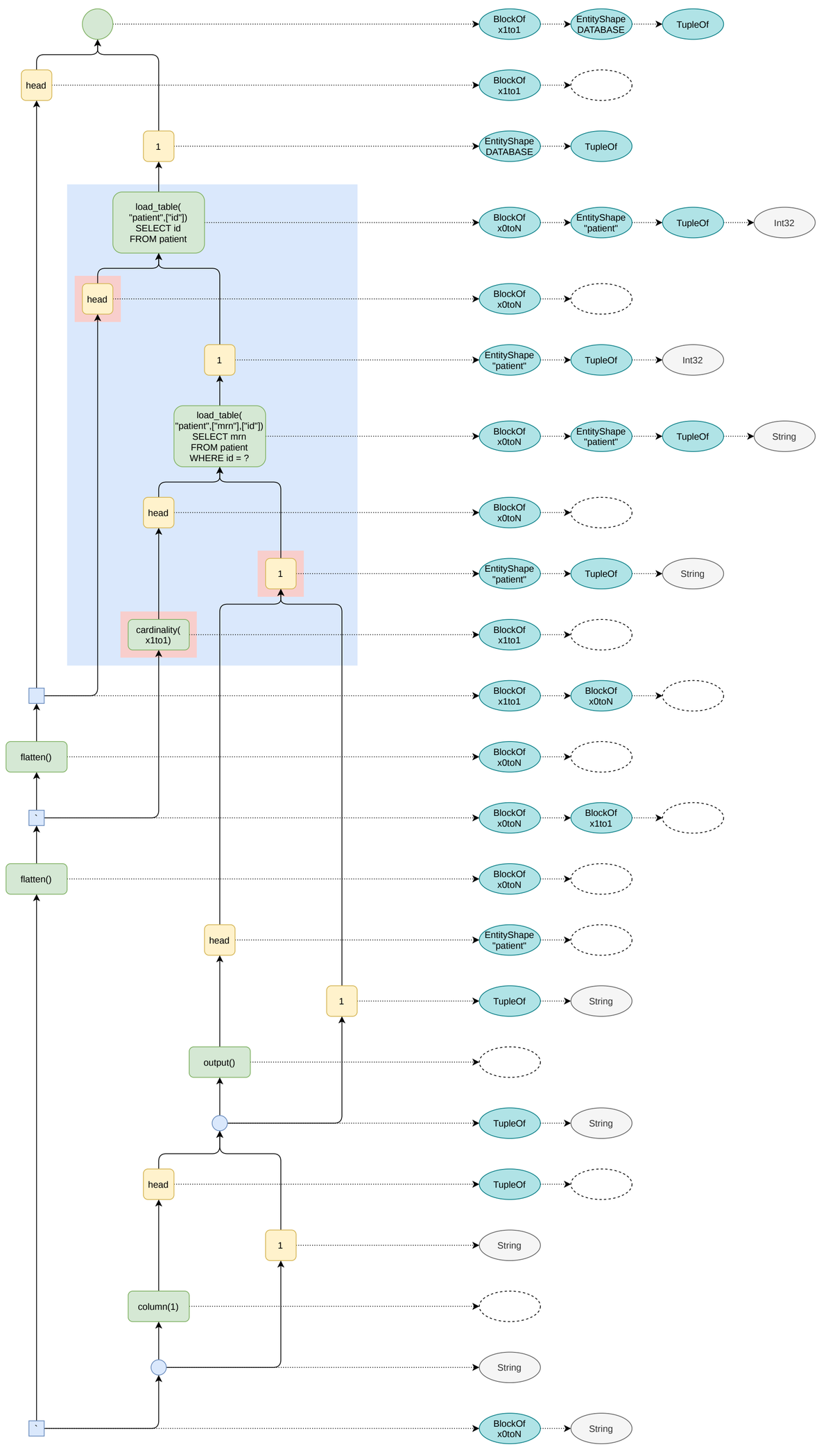
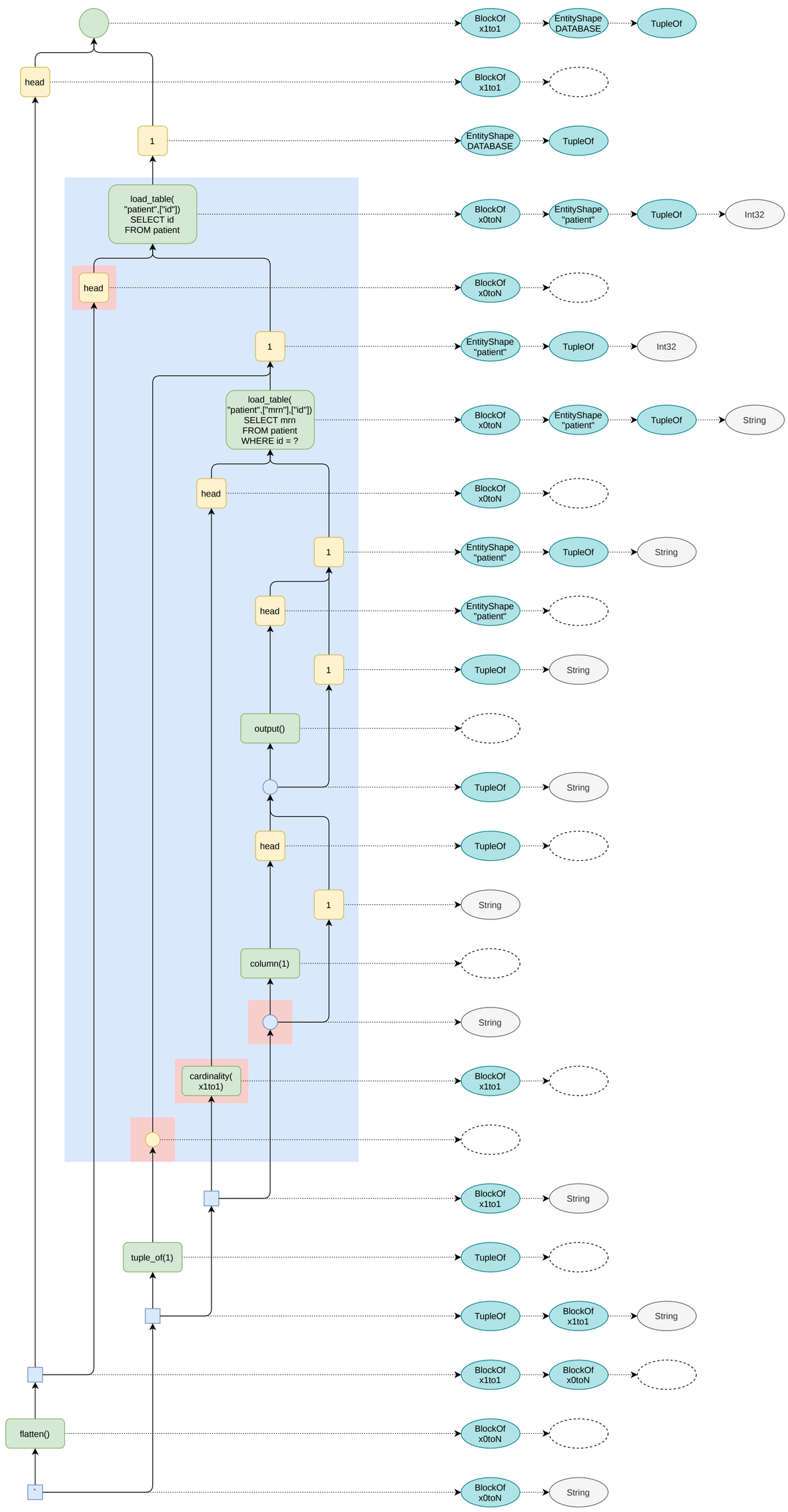
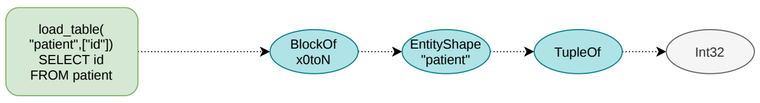
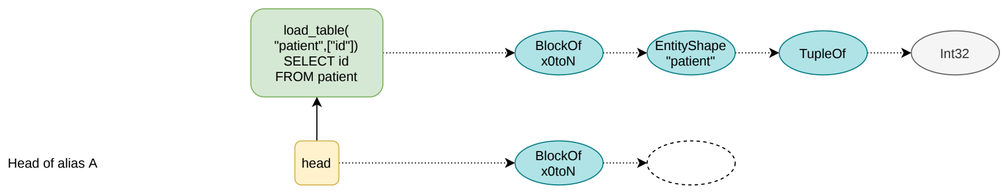
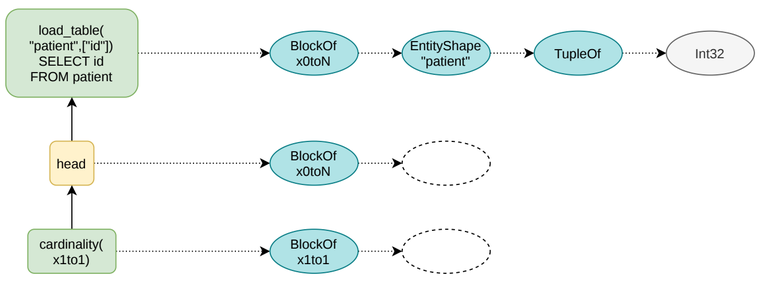

BlockOf
x1to1
EntityShape
DATABASE
TupleOf
head
BlockOf
x1to1
1
EntityShape
DATABASE
TupleOf
load_table(
"patient",["id"])
SELECT id
FROM patient
BlockOf
x0toN
EntityShape
"patient"
TupleOf
Int32
head
BlockOf
x0toN
1
EntityShape
"patient"
TupleOf
Int32
BlockOf
x1to1
BlockOf
x0toN
flatten()
BlockOf
x0toN
BlockOf
x0toN
EntityShape
"patient"
TupleOf
Int32

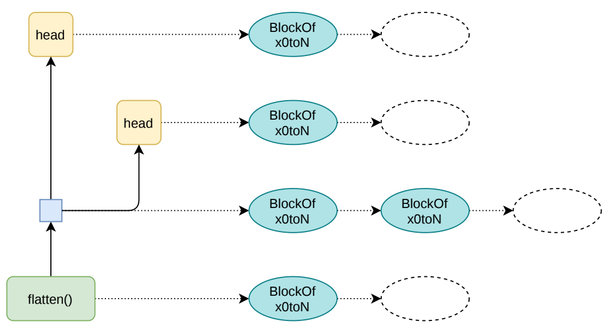

BlockOf x1to1
EntityShape DATABASE
TupleOf
head
BlockOf x1to1
1
EntityShape DATABASE
TupleOf
load_table("patient",["id"]) SELECT id FROM patient
BlockOf x0toN
EntityShape "patient"
TupleOf
Int32
head
BlockOf x0toN
1
EntityShape "patient"
TupleOf
Int32
load_table("patient",["mrn"],["id"]) SELECT mrn FROM patient WHERE id = ?
BlockOf x0toN
EntityShape "patient"
TupleOf
String
head
BlockOf x0toN
1
EntityShape "patient"
TupleOf
String
cardinality(x1to1)
BlockOf x1to1
BlockOf x1to1
BlockOf x0toN
flatten()
BlockOf x0toN
`
BlockOf x0toN
BlockOf x1to1
flatten()
BlockOf x0toN
head
EntityShape "patient"
1
TupleOf
String
output()
TupleOf
String
head
TupleOf
1
String
column(1)
String
`
BlockOf x0toN
String

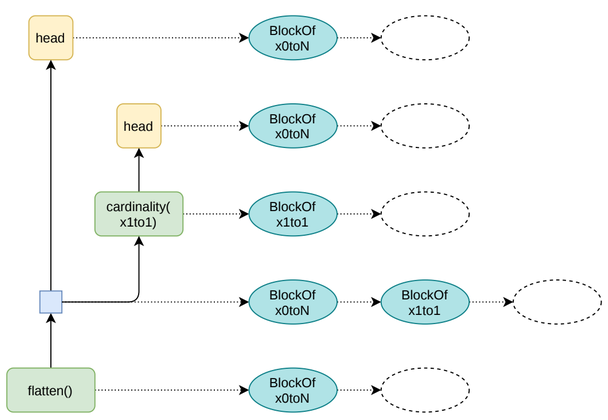

BlockOf x1to1
EntityShape DATABASE
TupleOf
head
BlockOf x1to1
1
EntityShape DATABASE
TupleOf
load_table("patient",["id"]) SELECT id FROM patient
BlockOf x0toN
EntityShape "patient"
TupleOf
Int32
head
BlockOf x0toN
1
EntityShape "patient"
TupleOf
Int32
load_table("patient",["mrn"],["id"]) SELECT mrn FROM patient WHERE id = ?
BlockOf x0toN
EntityShape "patient"
TupleOf
String
head
BlockOf x0toN
1
EntityShape "patient"
TupleOf
String
head
EntityShape "patient"
1
TupleOf
String
output()
TupleOf
String
head
TupleOf
1
String
column(1)
String
cardinality(x1to1)
BlockOf x1to1
BlockOf x1to1
String
tuple_of(1)
TupleOf
TupleOf
BlockOf x1to1
String
BlockOf x1to1
BlockOf x0toN
flatten()
BlockOf x0toN
BlockOf x0toN
String

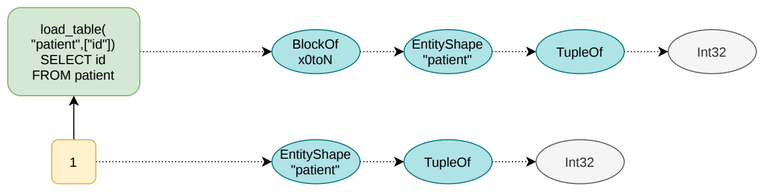

load_table(
"patient",["id"])
SELECT id
FROM patient
BlockOf
x0toN
EntityShape
"patient"
TupleOf
Int32

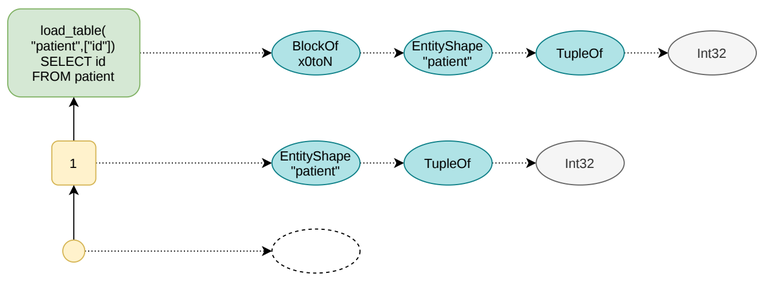

Head of alias A
load_table(
"patient",["id"])
SELECT id
FROM patient
BlockOf
x0toN
EntityShape
"patient"
TupleOf
Int32
head
BlockOf
x0toN

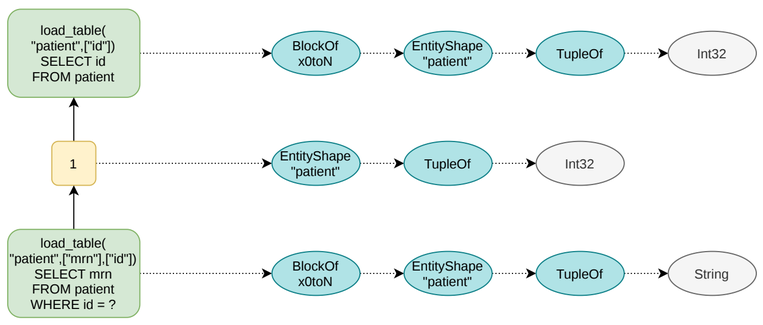

load_table(
"patient",["id"])
SELECT id
FROM patient
BlockOf
x0toN
EntityShape
"patient"
TupleOf
Int32
head
BlockOf
x0toN
cardinality(
x1to1)
BlockOf
x1to1

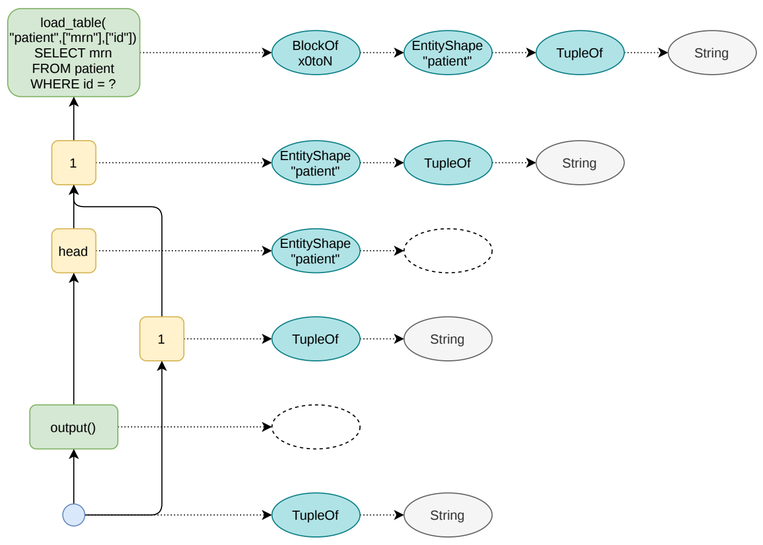

head
BlockOf
x0toN
head
BlockOf
x0toN
BlockOf
x0toN
BlockOf
x0toN
flatten()
BlockOf
x0toN

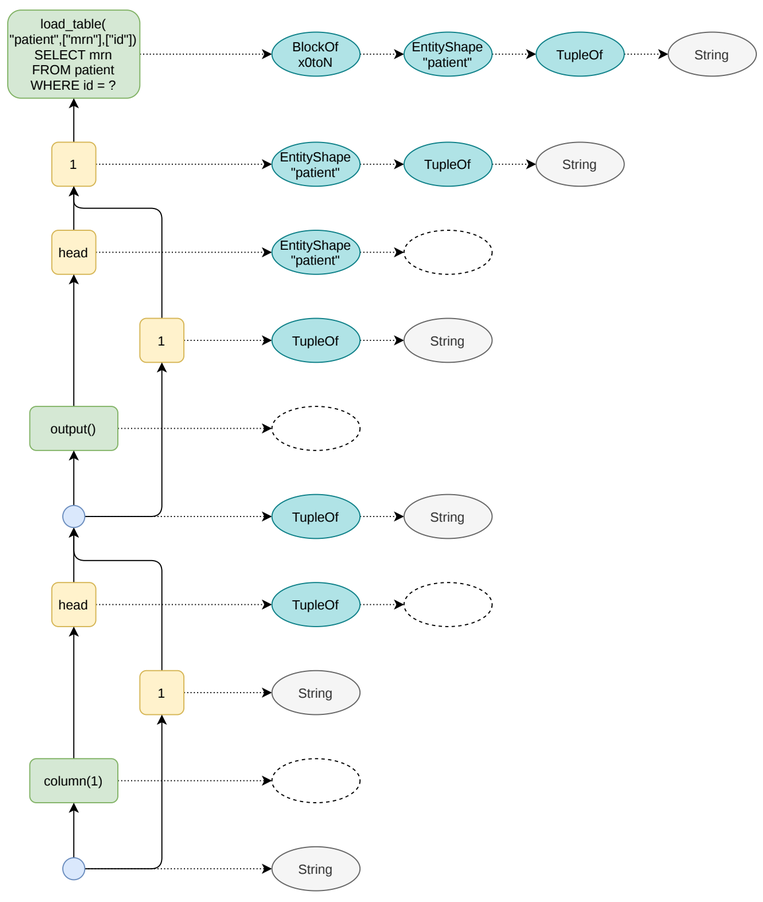

head
BlockOf
x0toN
head
BlockOf
x0toN
cardinality(
x1to1)
BlockOf
x1to1
BlockOf
x0toN
BlockOf
x1to1
flatten()
BlockOf
x0toN

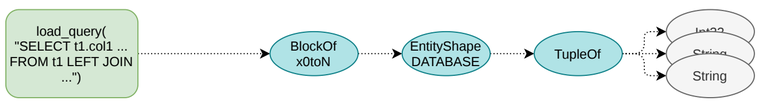

load_table(
"patient",["id"])
SELECT id
FROM patient
BlockOf
x0toN
EntityShape
"patient"
TupleOf
Int32
1
EntityShape
"patient"
TupleOf
Int32

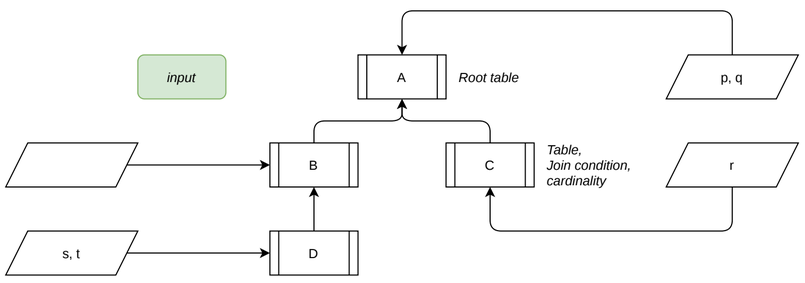

load_table(
"patient",["id"])
SELECT id
FROM patient
BlockOf
x0toN
EntityShape
"patient"
TupleOf
Int32
1
EntityShape
"patient"
TupleOf
Int32


load_table(
"patient",["id"])
SELECT id
FROM patient
BlockOf
x0toN
EntityShape
"patient"
TupleOf
Int32
1
EntityShape
"patient"
TupleOf
Int32
load_table(
"patient",["mrn"],["id"])
SELECT mrn
FROM patient
WHERE id = ?
BlockOf
x0toN
EntityShape
"patient"
TupleOf
String


load_table(
"patient",["mrn"],["id"])
SELECT mrn
FROM patient
WHERE id = ?
BlockOf
x0toN
EntityShape
"patient"
TupleOf
String
1
EntityShape
"patient"
TupleOf
String
head
EntityShape
"patient"
1
TupleOf
String
output()
TupleOf
String


load_table(
"patient",["mrn"],["id"])
SELECT mrn
FROM patient
WHERE id = ?
BlockOf
x0toN
EntityShape
"patient"
TupleOf
String
1
EntityShape
"patient"
TupleOf
String
head
EntityShape
"patient"
1
TupleOf
String
output()
TupleOf
String
head
TupleOf
1
String
column(1)
String


load_query(
"SELECT t1.col1 ...
FROM t1 LEFT JOIN
...")
BlockOf
x0toN
EntityShape
DATABASE
TupleOf
String


input
A
Root table
p, q
B
C
Table,
Join condition,
cardinality
r
s, t
D