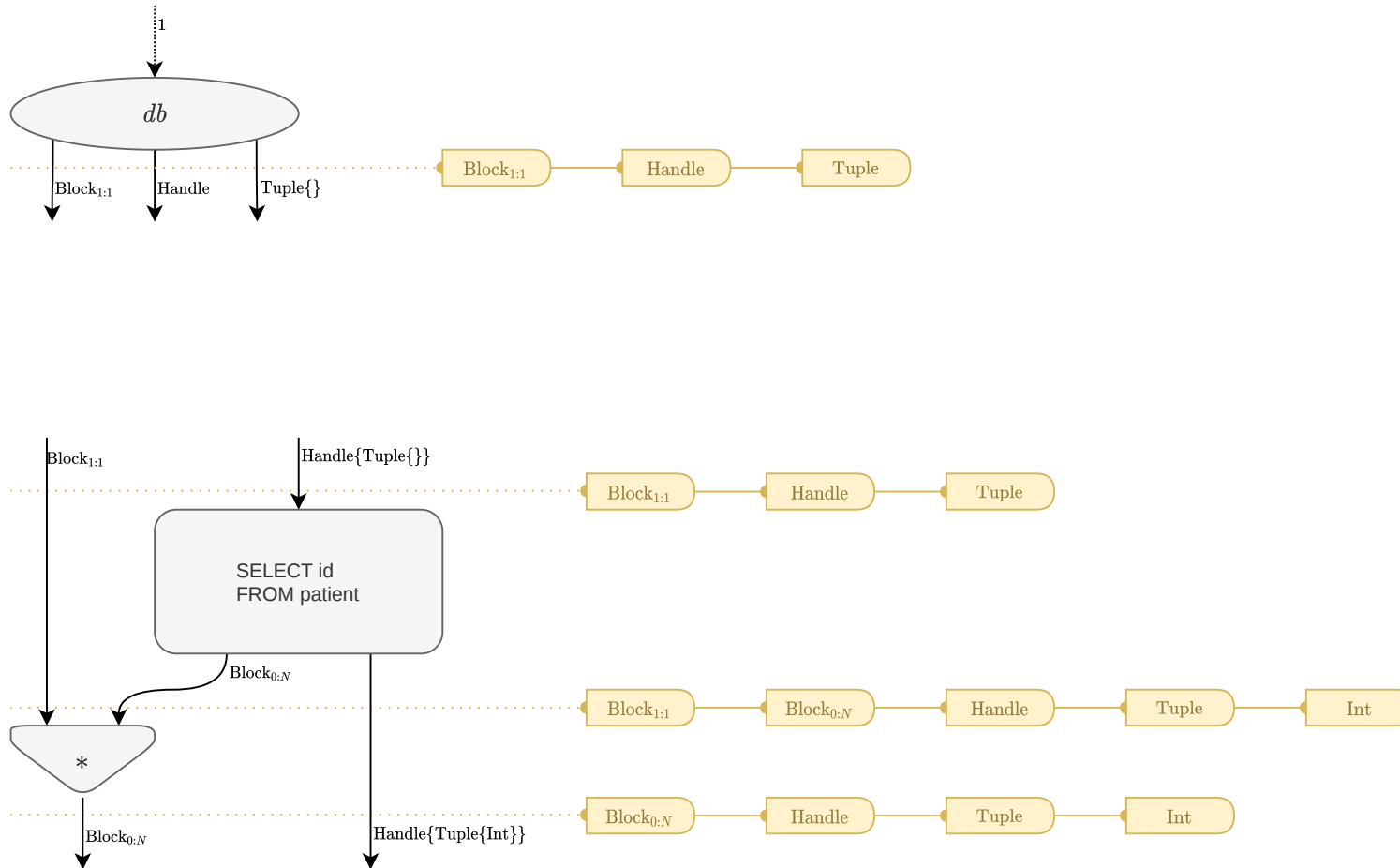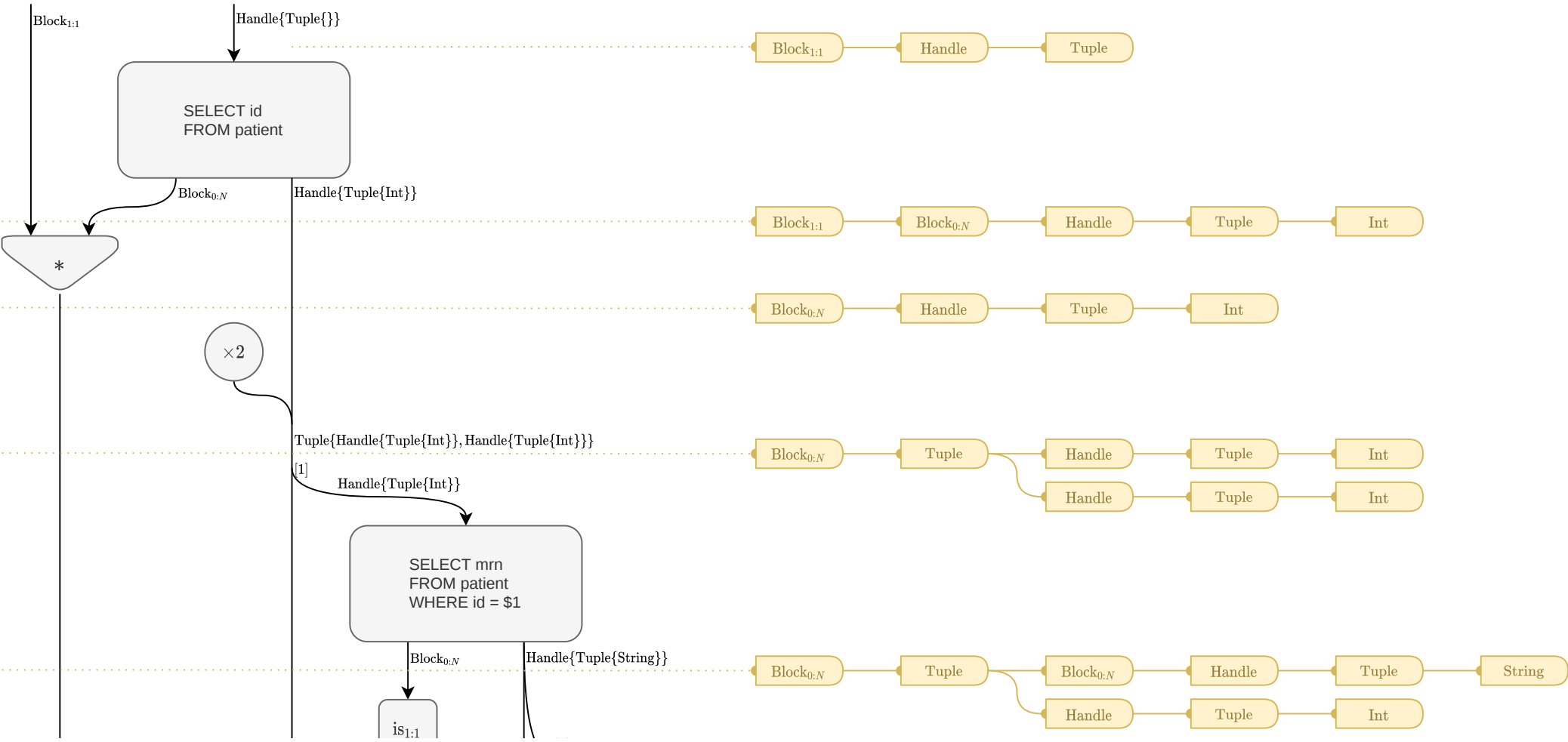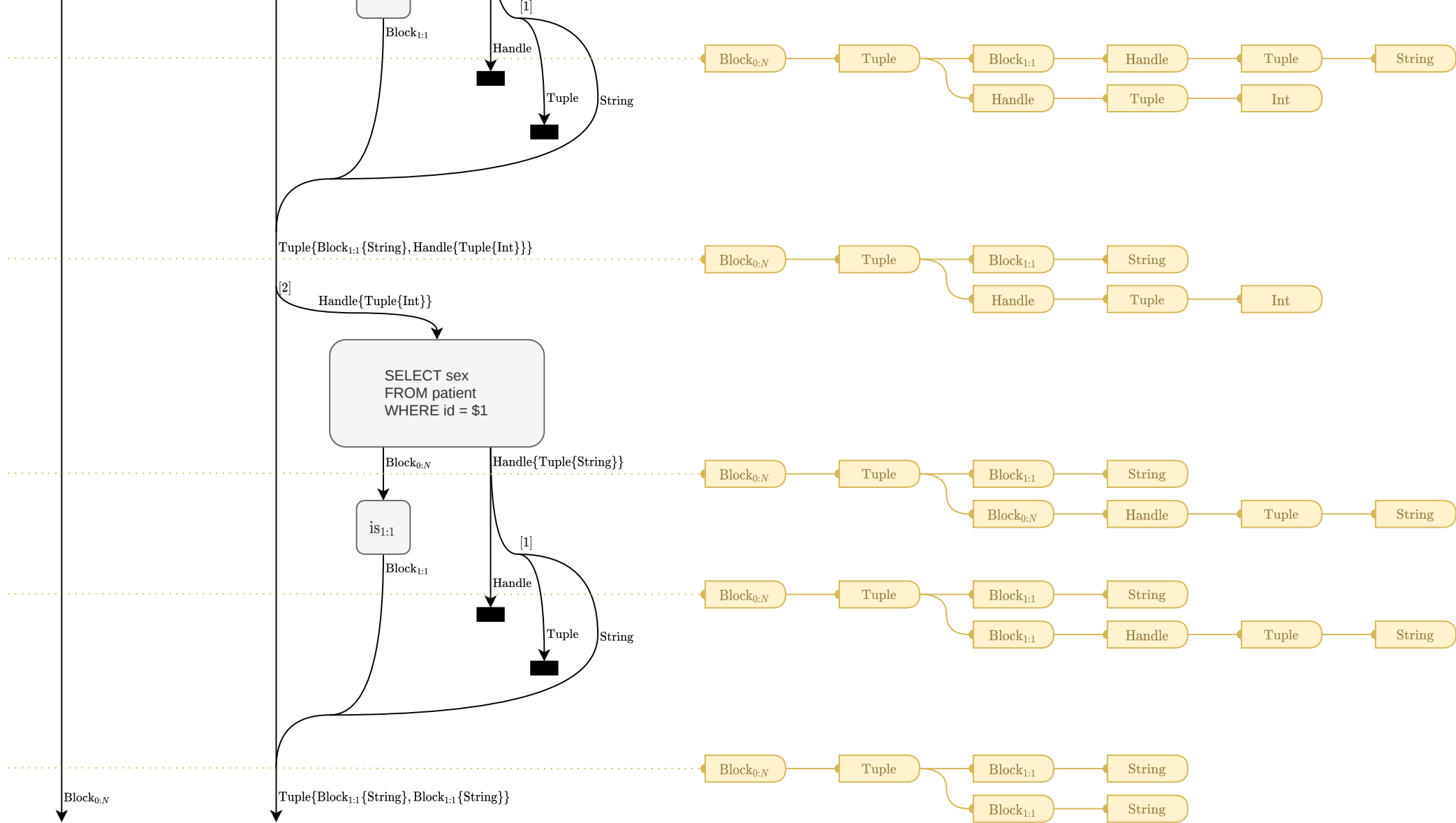# @query db patient

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

@query db patient{mrn,sex}

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

$Block_{1:1}$

$[1]$

Handle

Tuple

String

$Block_{0:N}$ — Tuple — $Block_{1:1}$ — Handle — Tuple — String

Handle — Tuple — Int

$Tuple\{Block_{1:1}\{String\}, Handle\{Tuple\{Int\}\}\}$

$[2]$ $Handle\{Tuple\{Int\}\}$

$Block_{0:N}$ — Tuple — $Block_{1:1}$ — String

Handle — Tuple — Int

SELECT sex
FROM patient
WHERE id = $1

$Block_{0:N}$

$Handle\{Tuple\{String\}\}$

$is_{1:1}$

$Block_{1:1}$

Handle

$[1]$

Tuple

String

$Block_{0:N}$ — Tuple — $Block_{1:1}$ — String

$Block_{0:N}$ — Handle — Tuple — String

$Block_{0:N}$ — Tuple — $Block_{1:1}$ — String

$Block_{1:1}$ — Handle — Tuple — String

$Block_{0:N}$

$Tuple\{Block_{1:1}\{String\}, Block_{1:1}\{String\}\}$

$Block_{0:N}$ — Tuple — $Block_{1:1}$ — String

$Block_{1:1}$ — String

SQL Pushdown

@query db patient{mrn,sex}

```
chain_of(with_elements(load_postgres_table(("public", "patient"), ["mrn", "sex"], [String, String])),
         flatten(),
         with_elements(output())
```