

Queries



Queries extend monadic transformations.

Queries: Example

List all departments.

department



Query Composition

$Q_1 \cdot Q_2$



Query Composition: Example

List the names of all departments.

department.name



Counting Example

Show the number of departments.

`count(department)`



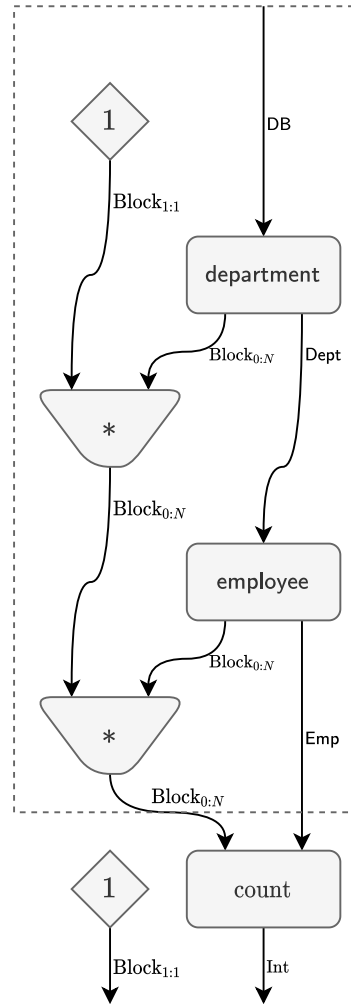
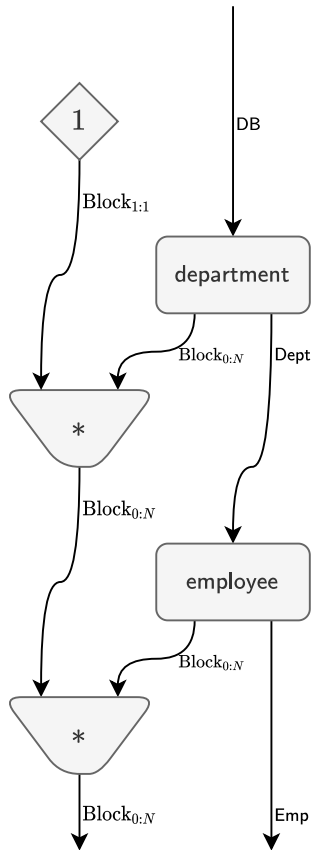
Counting Challenge 1

Show the number of employees in each department.

```
department.count(employee)
```



Counting Challenge 2



Show the total number of employees across all departments.

`count(department.employee)`

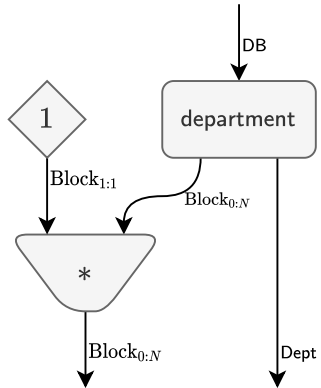
Counting Challenge 3



Counting Challenge 4



Counting Challenge 5



Show the number of employees in each department.

`department.count(employee)`