

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

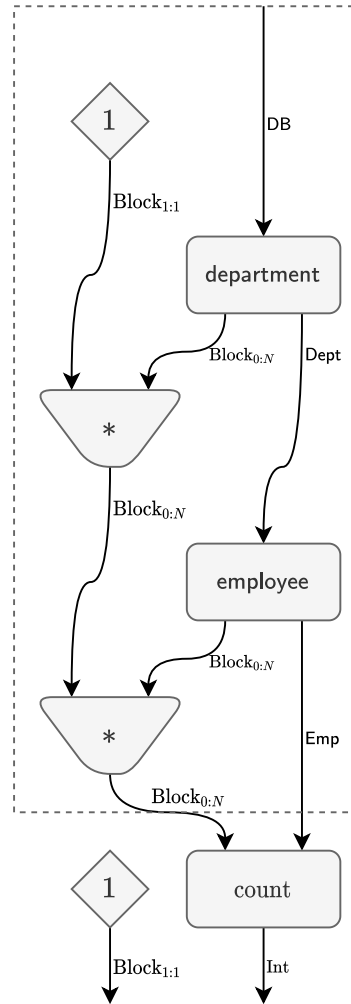
Show the number of employees
in each department.

`department.count(employee)`



```

graph TD
    DB[DB] --> J1(( ))
    J1 --> department[department]
    J1 --> J2(( ))
    J2 --> employee[employee]
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count(department.employee)
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Counting Challenge 3



Counting Challenge 4



Counting Challenge 5



Show the number of employees in each department.

`department.count(employee)`