



## Operators



## Editor

```
create table sells (bar char(20), beer char(20), price real)
insert into sells values ('joe bar', 'bud', 5.0)
insert into sells values ('joe bar', 'bud light', 3.0)
insert into sells values ('joe bar', 'sam adam', 6.0)
insert into sells values ('green st bar', 'sam adam', 3.5)
insert into sells values ('green st bar', 'bud', 6.0)
insert into sells values ('green st bar', 'michelob', null)
sells
```

beers

drinkers

sells

$\sigma_{\text{price} > 5}(\text{sells})$

$\sigma_{\text{bar} = \text{'joe bar'}}(\text{sells})$

$\pi_{\text{beer}}(\sigma_{\text{bar} = \text{'joe bar'}}(\text{sells}) - \sigma_{\text{price} > 5}(\text{sells}))$

insert into sells values ('k bar', 'bud', 6.8)

$\pi_{\text{beer}}(\text{sells})$

$\pi_{\text{beer}}(\sigma_{\text{name} = \text{drinker}}(\text{drinkers} \times \text{likes}))$

## Relations

- ▶ beers
- ▶ likes
- ▶ drinkers
- ▶ sells

Data Grid

Query

Trace

	beer
1	michelob
2	sam adam