**Operators**

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× −

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ρ ←

**Editor**

```
σ s1.bar = 'joe bar' and s1.price>s2.price and s1.beer = s2.beer (ρ s1 (sells)× ρ s2 (sells))

ρ s1 (sells) ⋈ s1.bar = 'joe bar' and s1.price>s2.price and s1.beer = s2.beer ρ s2 (sells)

// theta-join
beers ⋈ beers.bname=sells.beer and sells.price<5.0 sells

// theta-join with complex conditions
// set vs. bag semantics
π bname (beers ⋈ beers.bname=sells.beer and sells.price<5.0 sells)

// natural join

create table goodbeer (beer char(20), rating real)
insert into goodbeer values ('sam adam', 5.0)

goodbeer ⋈ sells
goodbeer × sells
```

**Relations**

- beers
- likes
- drinkers
- sells
- goodbeer