

Relational

File Relations Settings Help

Operators	sname	snumber	qty	Attributes
*	black	s2	400	pnumber
-	white	s1	100	pname
U				city1
∩				color
⋈				
⋈				
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σ				
π				
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→				

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Relations

- A
- B
- C1
- C2
- comparePart
- last_
- p1Suppliers
- part
- q2
- sp
- supplier
- supplier_parts

$B = \rho \text{ pnumber} \rightarrow \text{pnumber1, city} \rightarrow \text{city1 (part)}$
 $C1 = A * B$
 $C2 = \sigma \text{ pnumber} == \text{pnumber1 and city} == \text{city1 (C1)}$
 $\pi \text{ snumber, city, city1 (C2)}$
 $p1Suppliers = \pi \text{ sname, snumber, qty } (\sigma \text{ pnumber} == "p1" (\text{supplier} \bowtie \text{sp}))$

snumber	city	city1
s3	paris	paris
s1	london	london
s2	paris	paris

```
A =  $\pi$  snumber, pnumber, city (supplier  $\bowtie$  sp)
B =  $\rho$  pnumber  $\rightarrow$  pnumber1, city  $\rightarrow$  city1 (part)
C1 = A * B
C2 =  $\sigma$  pnumber == pnumber1 and city == city1 (C1)
 $\pi$  snumber, city, city1 (C2)
```

Optimize Undo optimize Clear history

π snumber, city, city1 (C2)  Execute

