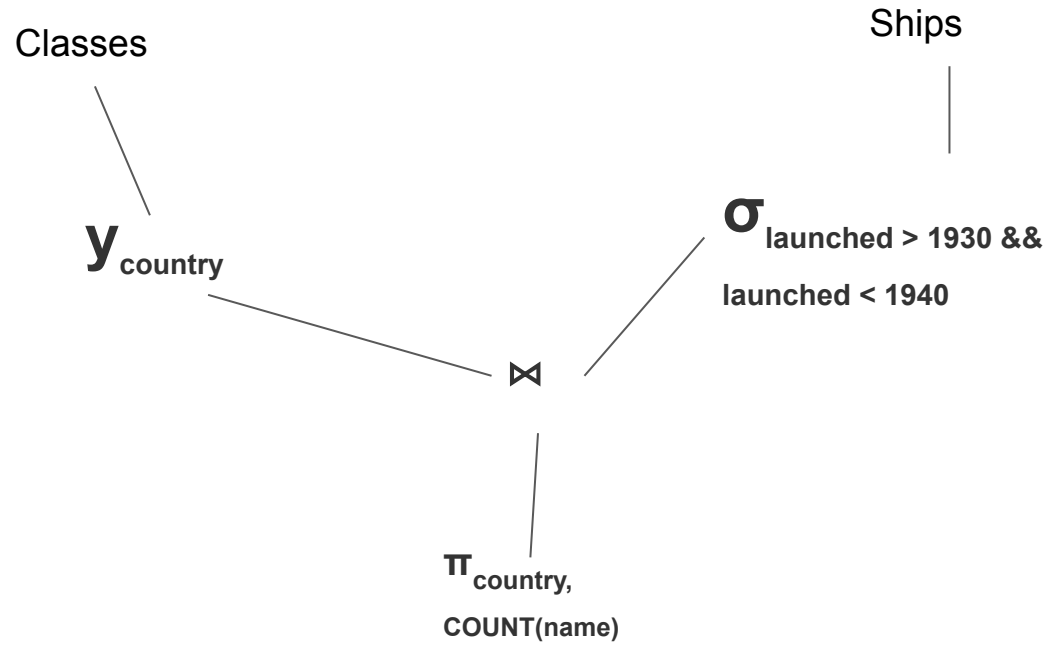


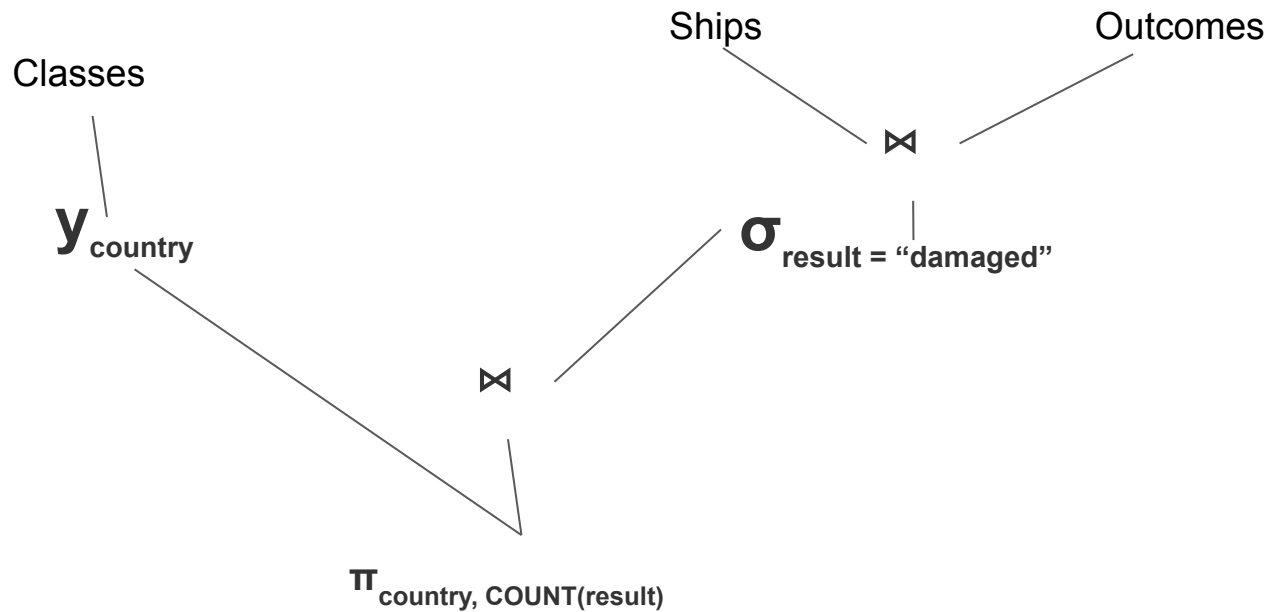
3

```
SELECT Classes.country, COUNT(Ships.name)
FROM Classes, Ships
WHERE Classes.class = Ships.class
AND Ships.launches BETWEEN "1930" AND
"1940"
GROUP BY Classes.country;
```

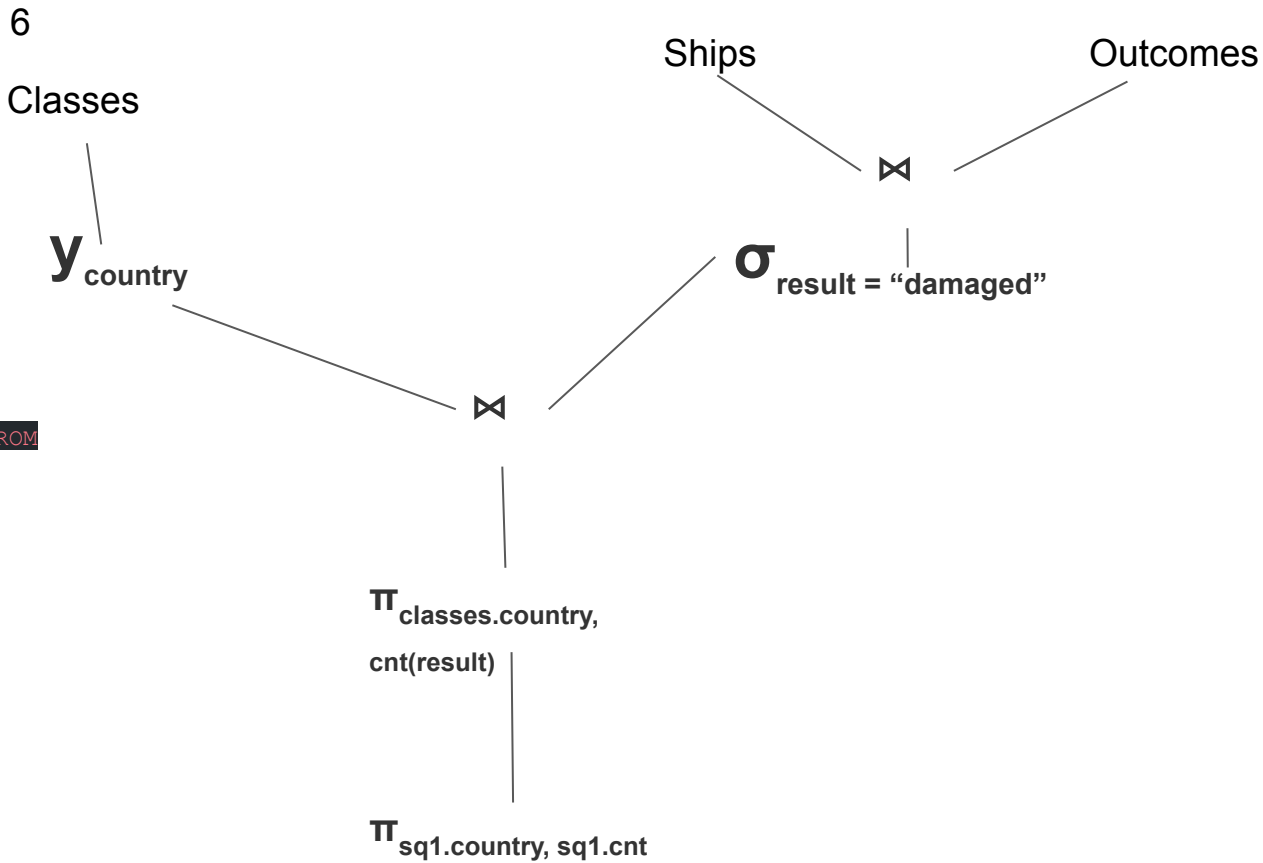


5

```
SELECT Classes.country as cntry,  
COUNT(Outcomes.result) as cnt  
FROM Outcomes, Classes, Ships  
WHERE Classes.class = Ships.class  
AND Ships.name = Outcomes.ship  
AND Outcomes.result = "damaged"  
GROUP BY Classes.country;
```



```
SELECT sql.centry, sql.cnt
FROM (
    SELECT Classes.country as centry,
    COUNT(Outcomes.result) as cnt
    FROM Outcomes, Classes, Ships
    WHERE Classes.class = Ships.class
    AND Ships.name = Outcomes.ship
    AND Outcomes.result = "damaged"
    GROUP BY Classes.country
) sq1
WHERE sq1.cnt = (SELECT MIN(sq2.cnt) FROM
(
    SELECT Classes.country as centry,
    COUNT(Outcomes.result) as cnt
    FROM Outcomes, Classes, Ships
    WHERE Classes.class = Ships.class
    AND Ships.name = Outcomes.ship
    AND Outcomes.result = "damaged"
    GROUP BY Classes.country
) sq2)
GROUP BY sql.centry;
```



8

```
SELECT DISTINCT Outcomes.ship
FROM outcomes, ships, classes
WHERE Ships.class = Classes.class
AND Ships.name = Outcomes.ship
and Outcomes.result = "damaged"
GROUP BY Outcomes.ship
HAVING COUNT(Outcomes.result = "damaged")
> 1;
```

Classes

Ships

Outcomes



σ

result = "damaged"

γ _{ship}

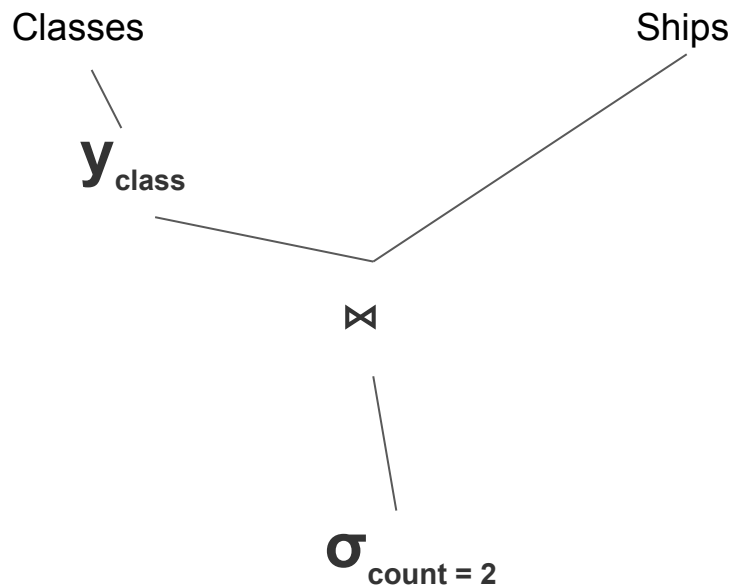


π _{DISTINCT}

Outcome.ship

11

```
SELECT Classes.class  
FROM Ships, Classes  
WHERE Ships.class = Classes.class  
GROUP BY Classes.class  
HAVING COUNT(Classes.class) = 2;
```



14

```
SELECT Classes.Country, TOTAL(numGuns)
FROM Ships, Classes
WHERE Ships.class = Classes.class
GROUP BY Classes.country;
```

