

Midterm

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Code Output!

All the Trees made with the code from midterm.sql

Question 3

Classes

Ships

$\sigma_{\text{launched} \geq 1930 \text{ AND } \text{launched} \leq 1940}$

\bowtie Classes.class = Ships.class

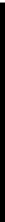
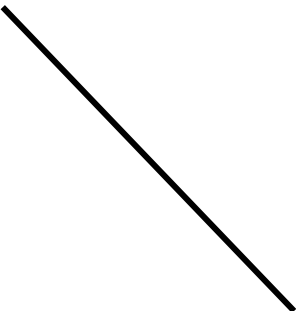
y Classes.country, COUNT(Ships.launched) as numShips

Question 5

Classes

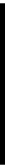
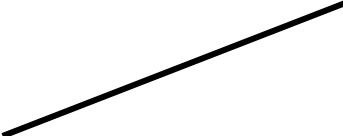
Ships

Outcomes



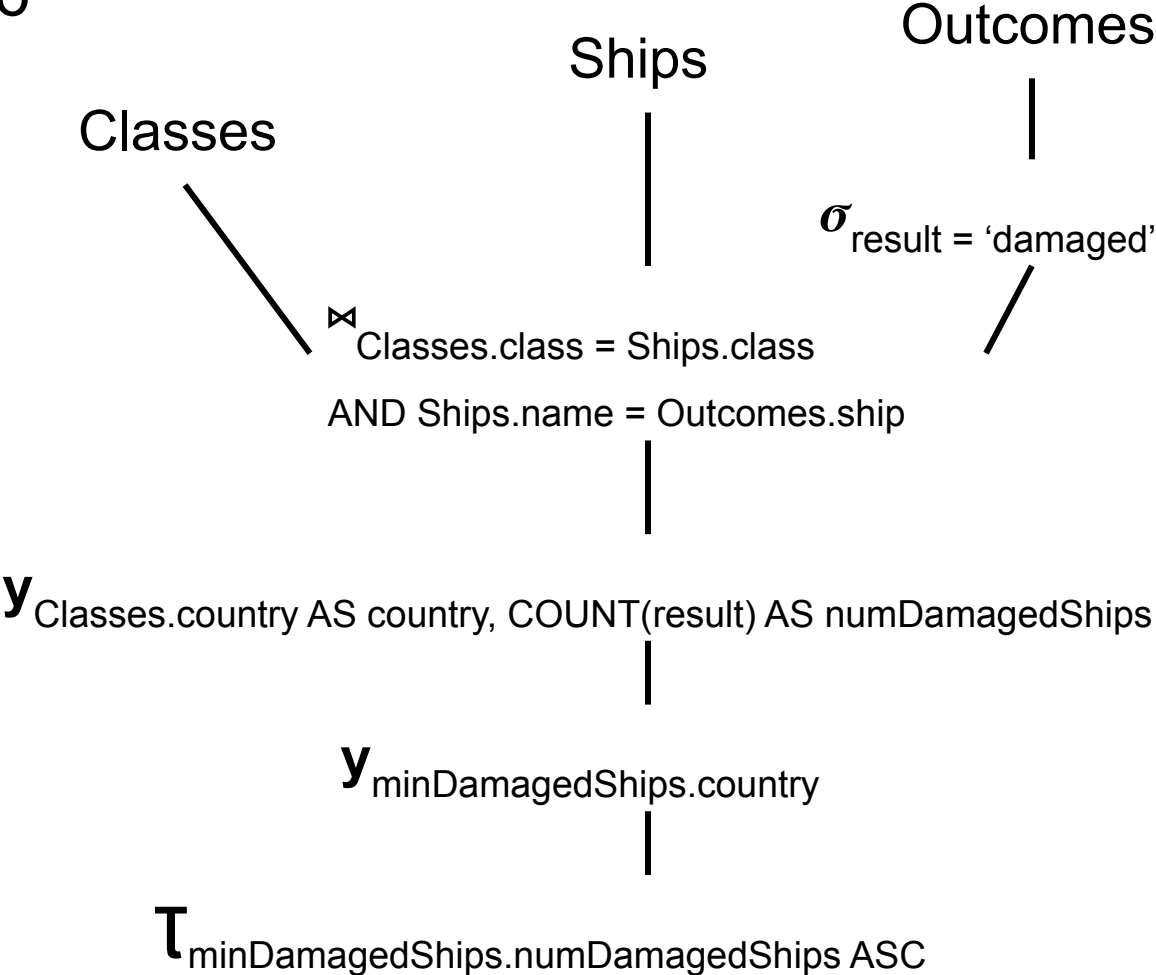
Classes.class = Ships.class
AND Ships.name = Outcomes.ship

$\sigma_{\text{result} = \text{'damaged'}}$



y Classes.country, COUNT(Outcomes.result) as DamagedShips

Question 6



Question 8

Outcomes

|

σ Outcomes.result = 'damaged' OR Outcomes.result = 'ok'

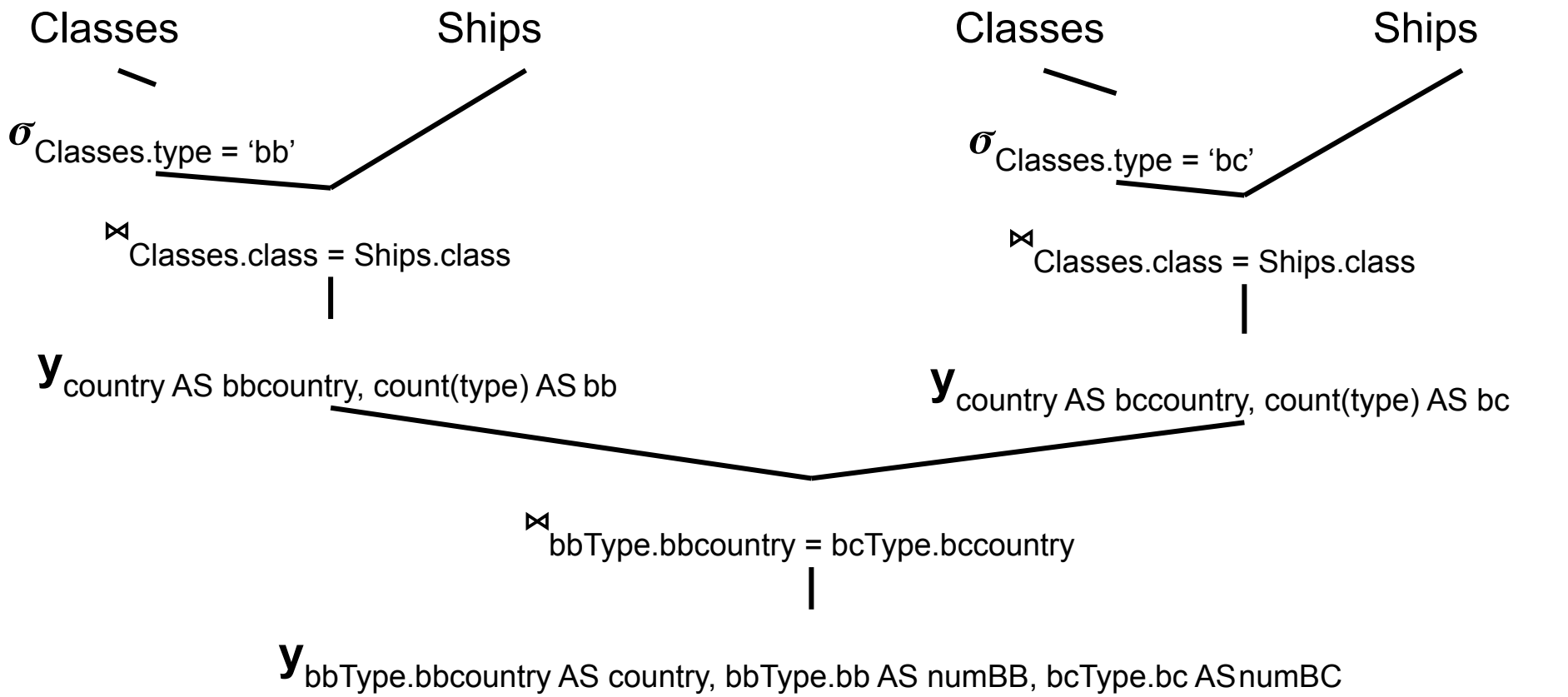
|

y Outcomes.ship

|

σ COUNT(Outcomes.result) > 1

Question 9



Question 11

Classes

Ships



Classes.class = Ships.class

y

Classes.class

σ

COUNT(Ships.name) == 2

Question 12

Classes

Ships

Outcomes



Classes.class = Ships.class

$\sigma_{\text{Ships.name NOT IN}}$

$\sigma_{\text{Outcomes.result = 'sunk'}}$

$\pi_{\text{Outcomes.ship}}$

$\gamma_{\text{Classes.class}}$

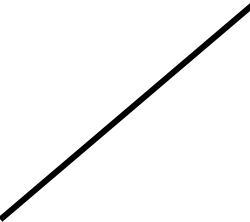
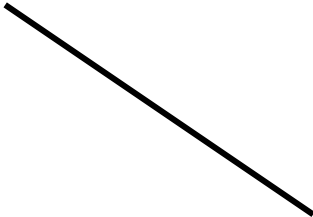
$\sigma_{\text{COUNT(Ships.name) == 2}}$



Question 14

Classes

Ships

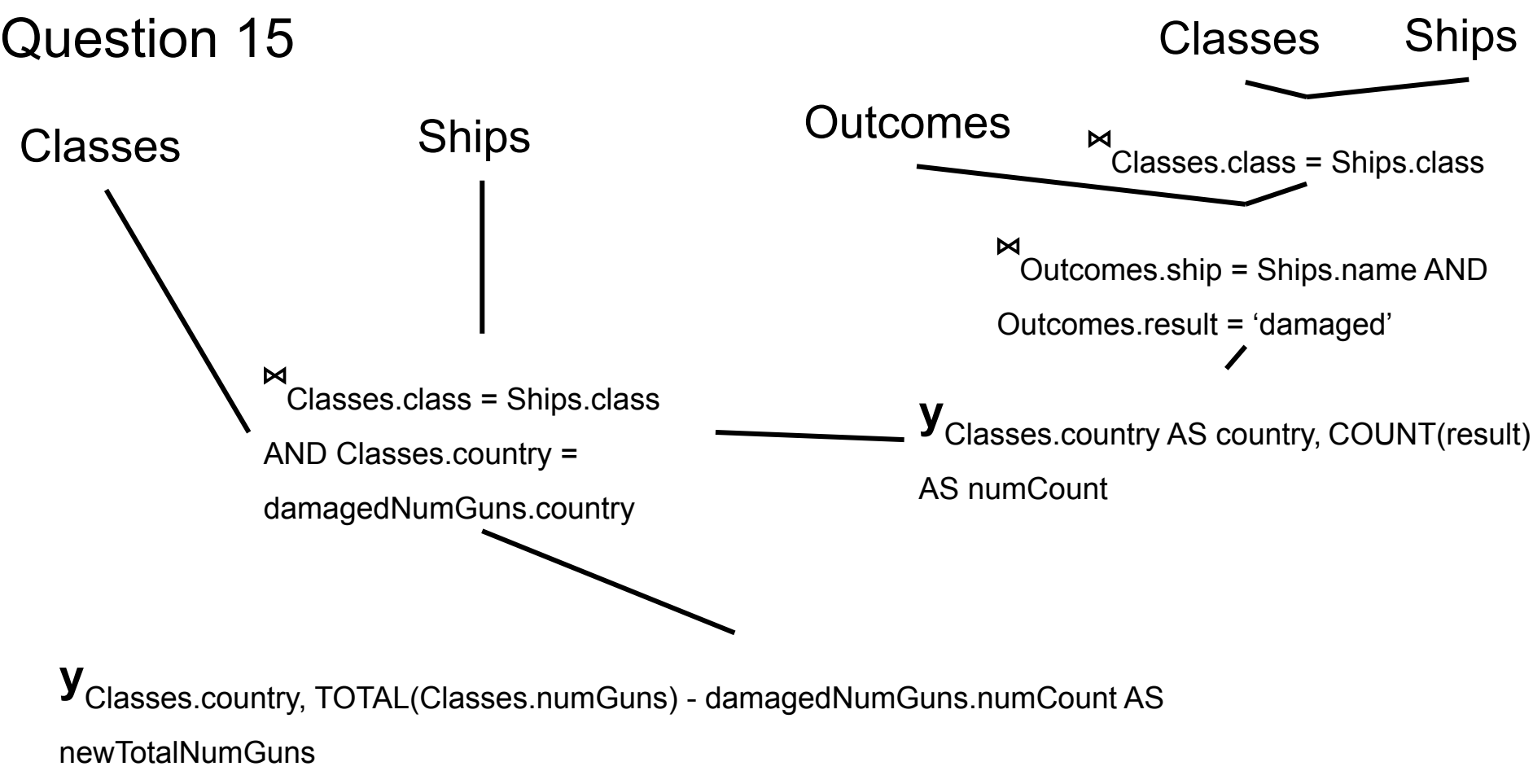


Classes.class = Ships.class



y Classes.country, TOTAL(Classes.numGuns) AS totalNumGuns

Question 15



Question 17

