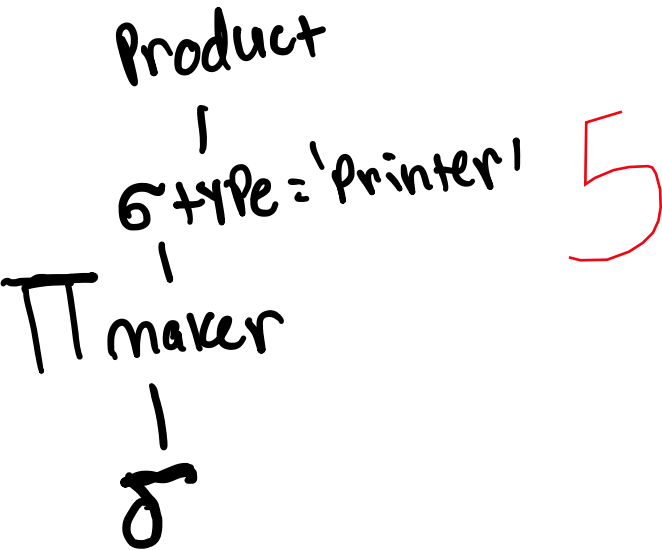


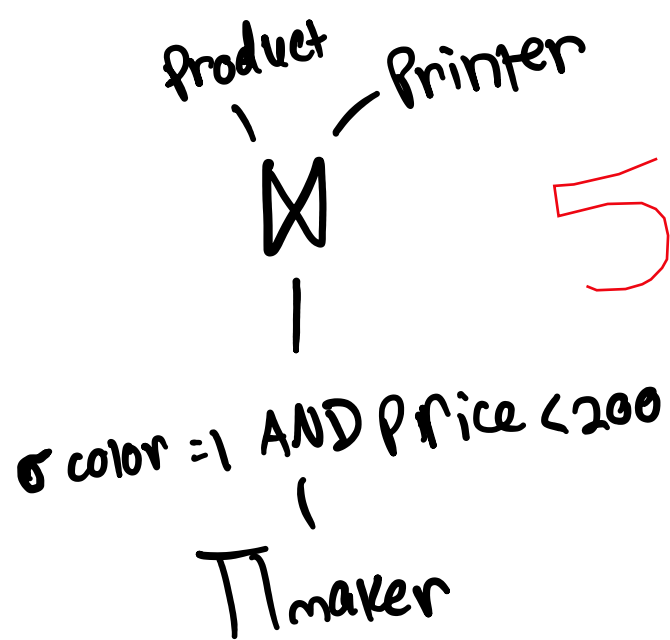
Exam 1)

Wednesday, October 28, 2020 5:04 PM



Exam 2)

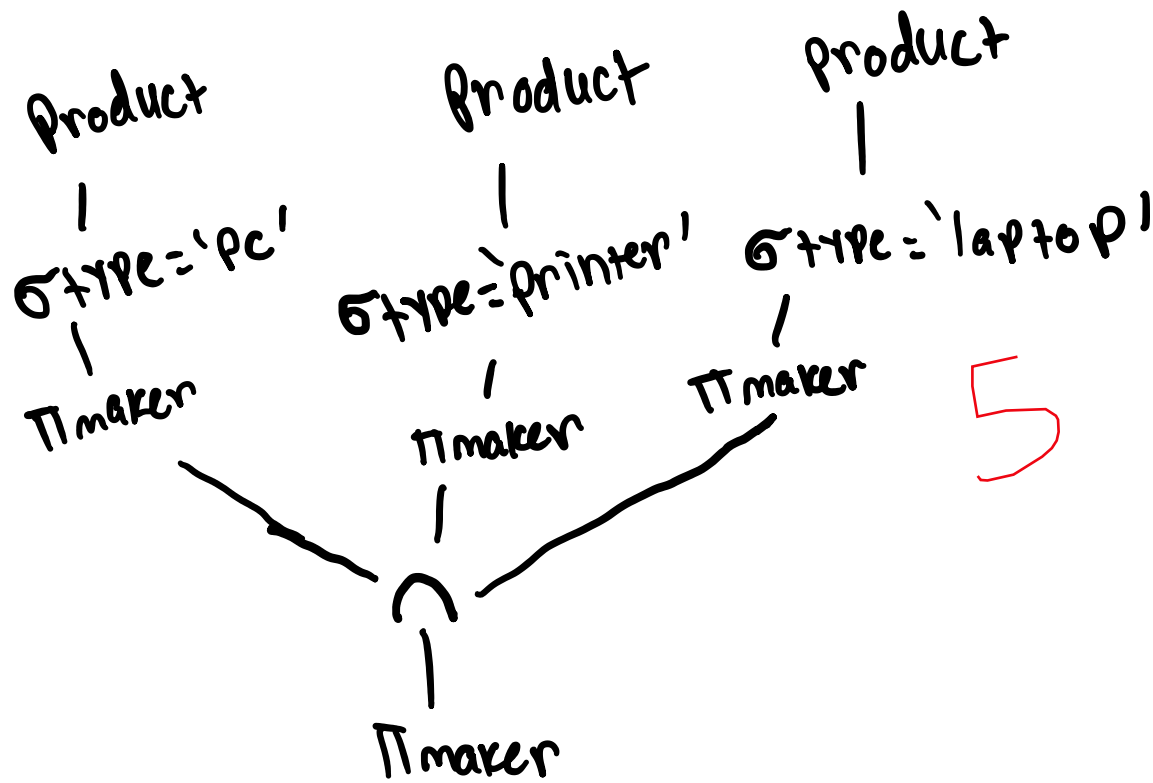
Wednesday, October 28, 2020 5:15 PM



Exam 3)

Wednesday, October 28, 2020

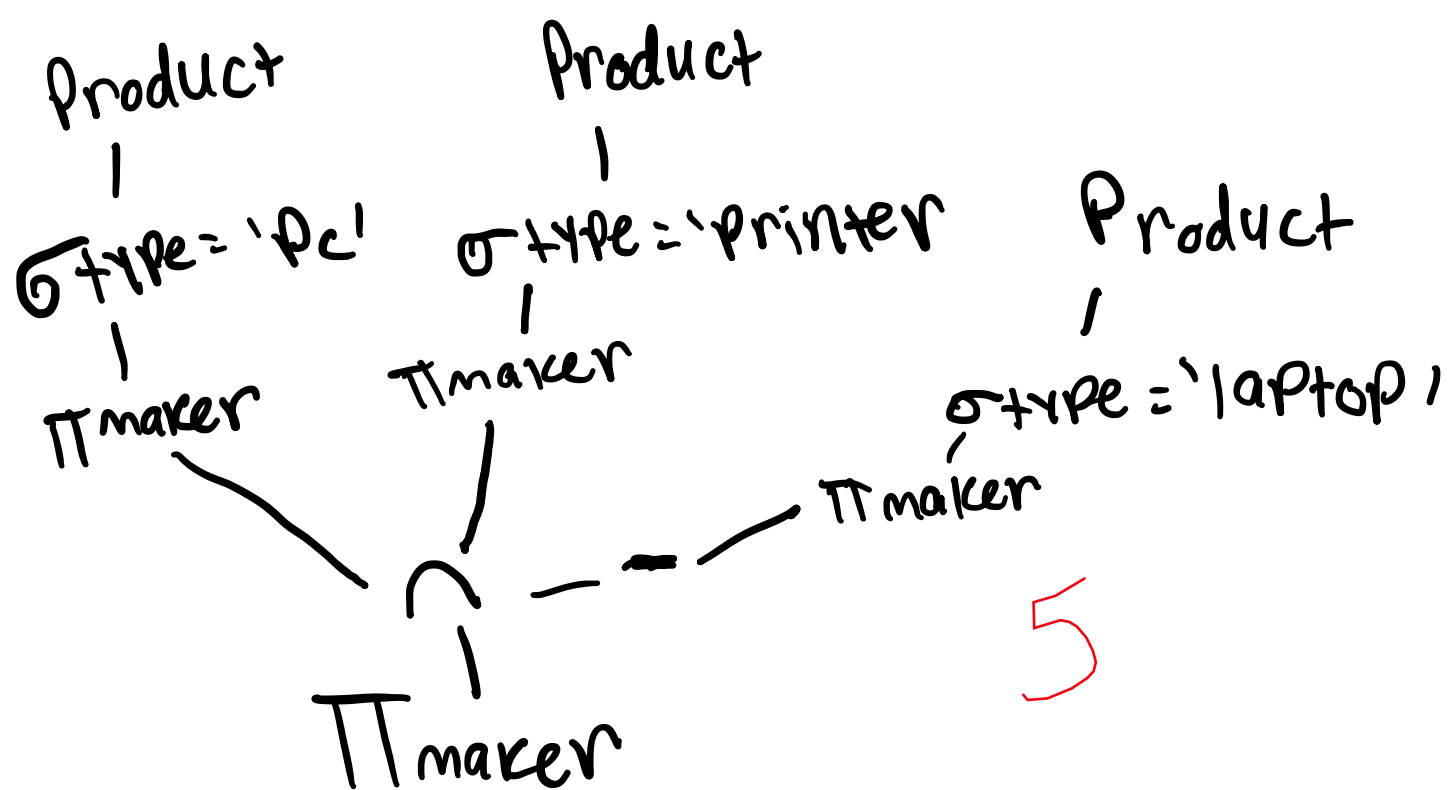
6:29 PM



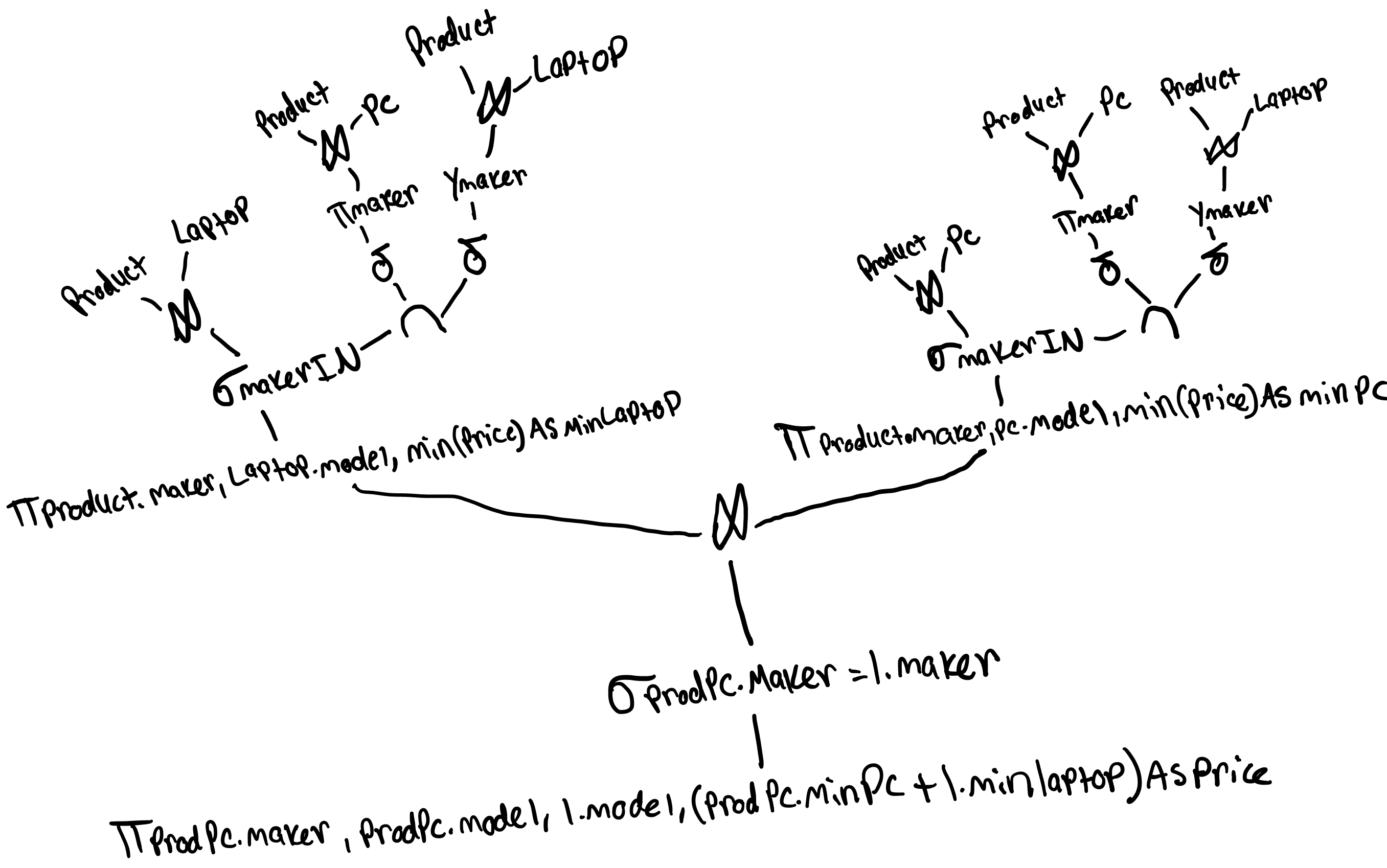
Exam 4)

Wednesday, October 28, 2020

6:34 PM



Exam 5)



Exam 6)

Wednesday, October 28, 2020

6:50 PM

Printer
|
 $\pi \text{AVG}(\text{price})$

Exam 7)

Wednesday, October 28, 2020

6:51 PM

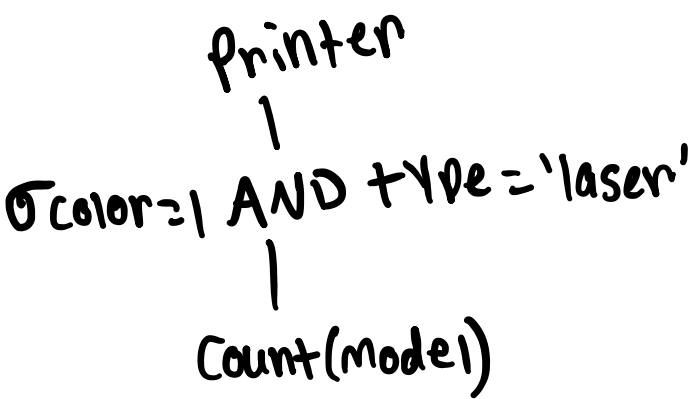
Printer

1

Y+type, count(model) as Cnt

Exam 8)

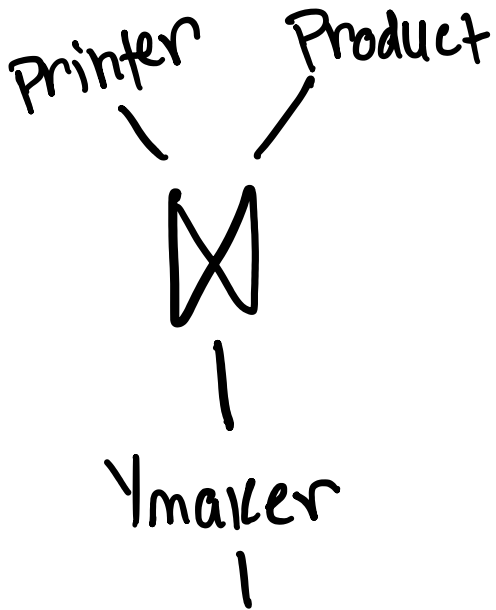
Wednesday, October 28, 2020 6:56 PM



Exam 9)

Wednesday, October 28, 2020

7:02 PM



$\text{Count}(\text{printer.type}) \geq 2$

Exam 10)

Wednesday, October 28, 2020

7:11 PM

Laptop
|

Yscreen, maker, min(price) as minPrice

Exam 11)

Wednesday, October 28, 2020

7:15 PM

Laptop

|

Yscreen

|

$\sigma_{\text{count}(\text{model})} \geq 3$

Exam 12)

Wednesday, October 28, 2020

7:46 PM

Laptop

↓
Yscreen

↓

$\sigma_{\text{count(speed)}} \geq 2$



Exam 13)

Wednesday, October 28, 2020

7:48 PM

Laptop

|

PC

/

$$\sigma_{\text{Laptop.Price}} > \pi_{\text{max}}(\text{PC.Price})$$

|

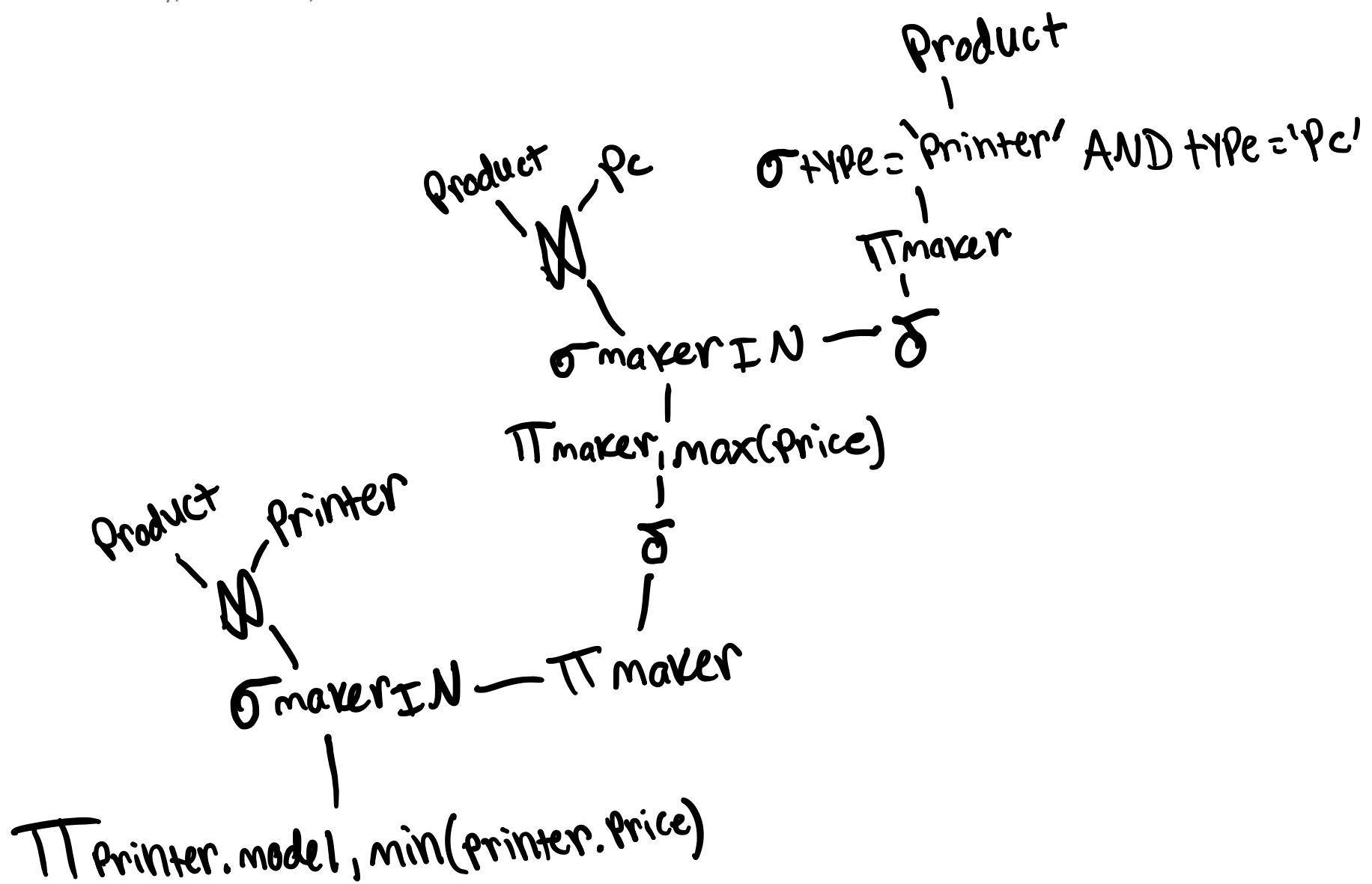
$\pi_{\text{model, Price}}$

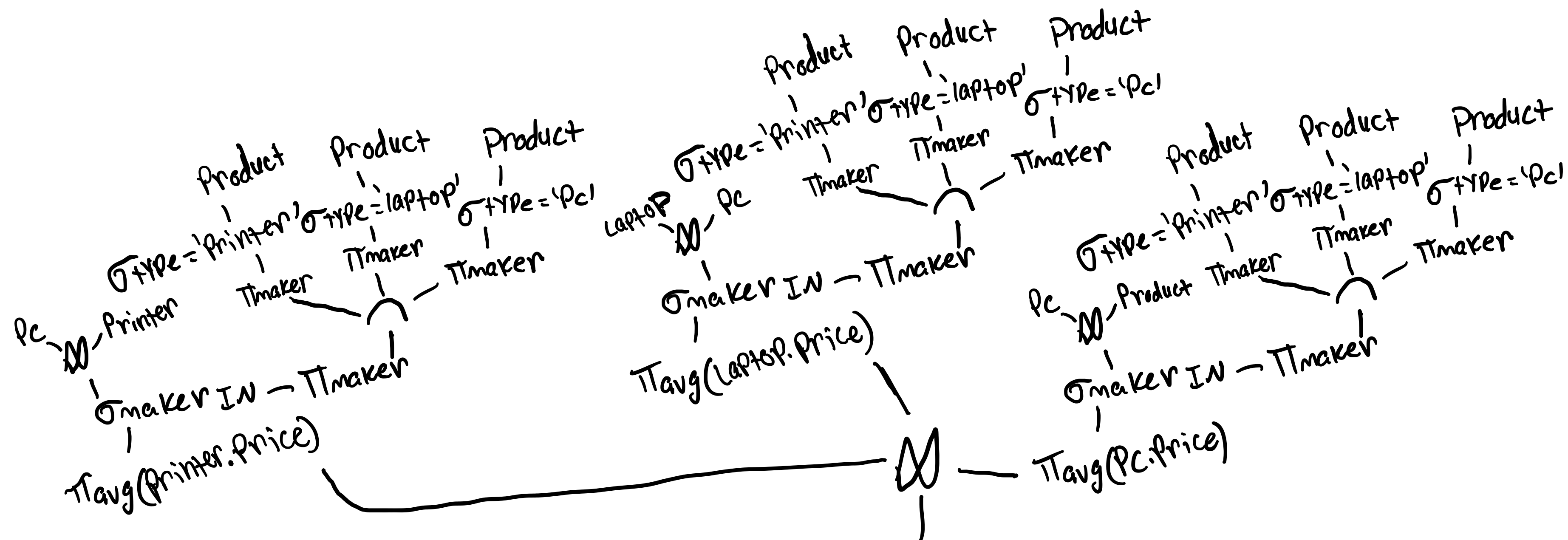


Exam 14)

Wednesday, October 28, 2020

7:50 PM



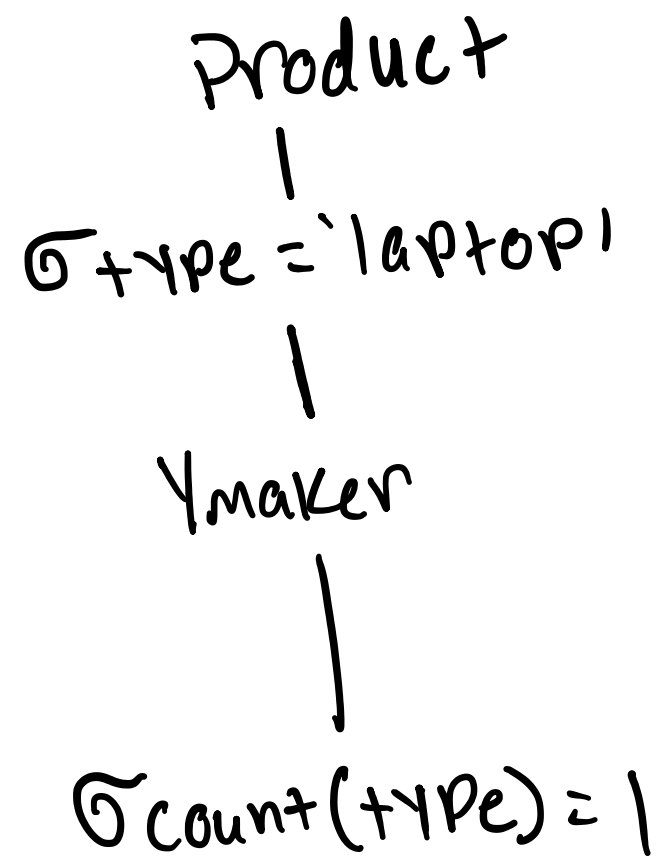


$\pi_{PC.TBL.avgPC, laptop.TBL.avgLaptop, printer.TBL.avgPrinter}$

Exam 16)

Wednesday, October 28, 2020

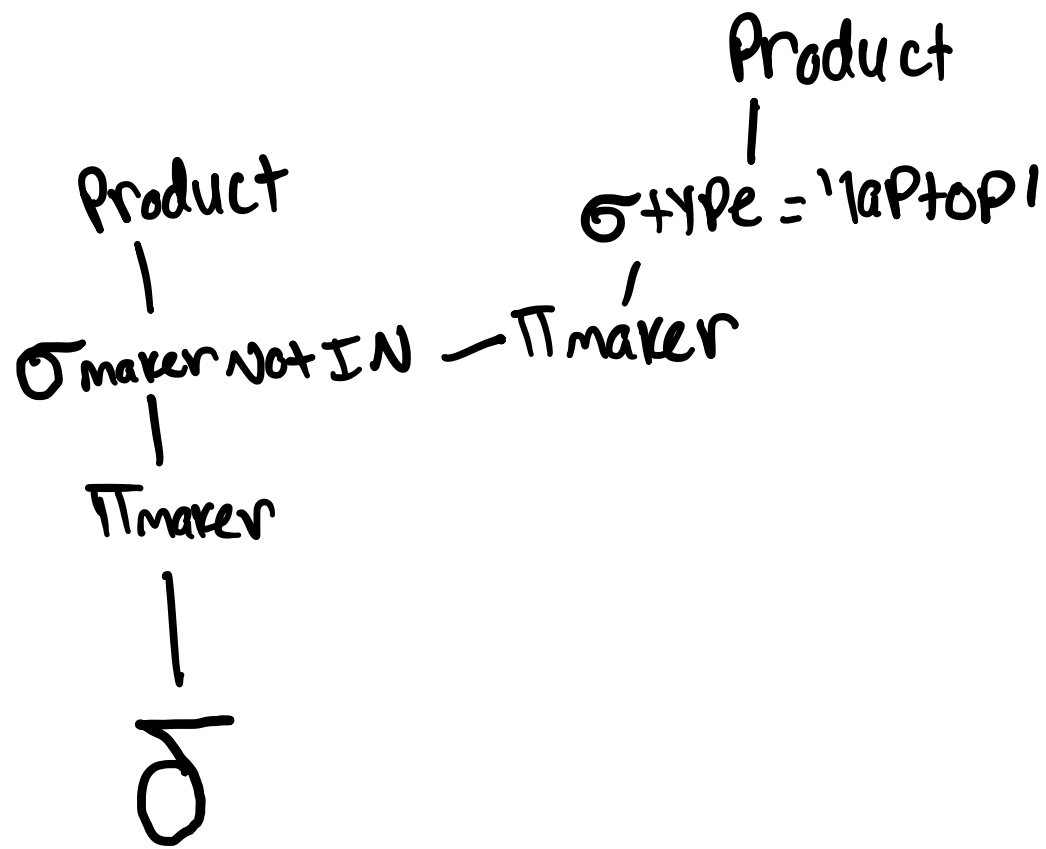
7:50 PM



Exam 17)

Wednesday, October 28, 2020

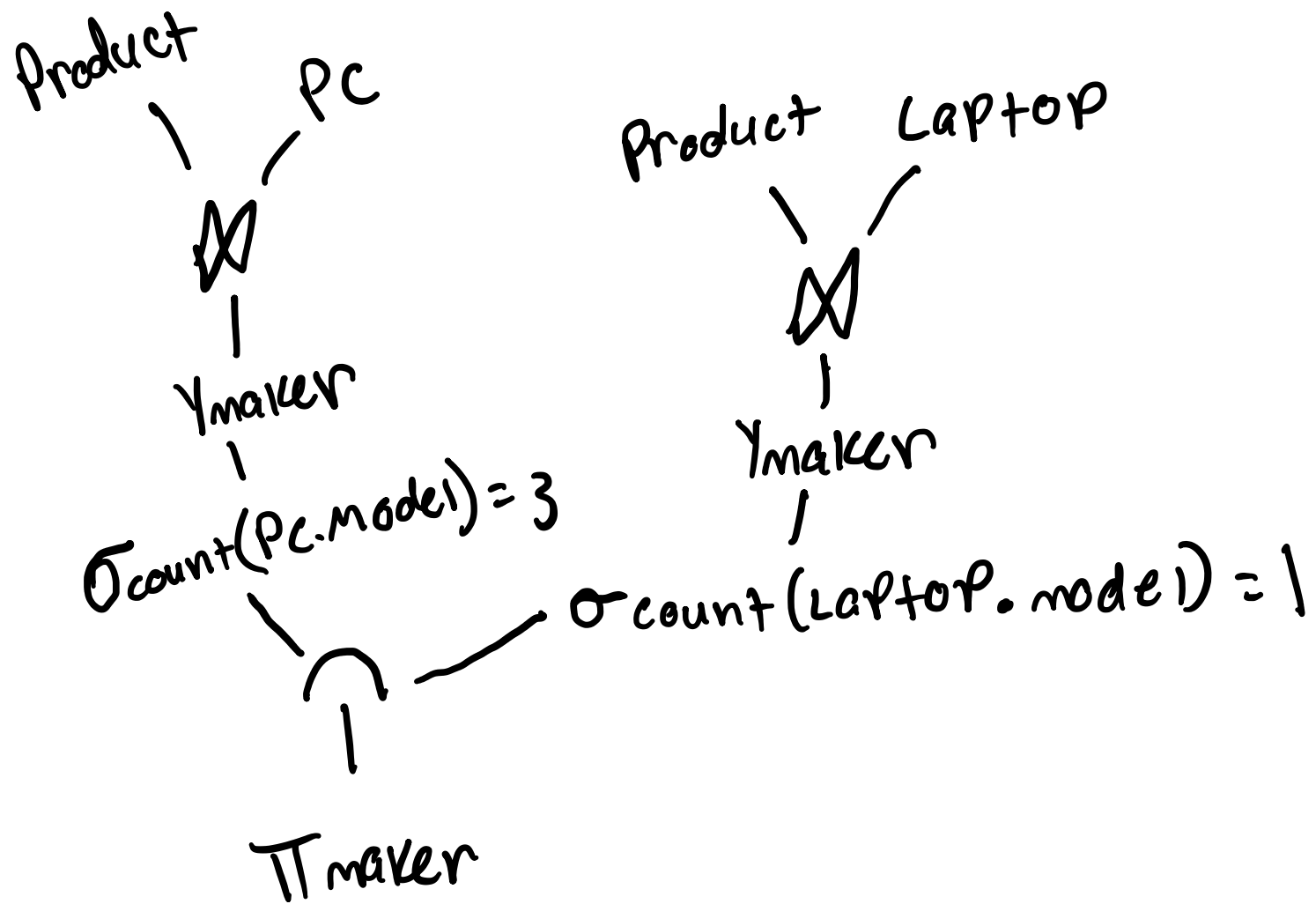
7:51 PM



Exam 18)

Wednesday, October 28, 2020

7:51 PM

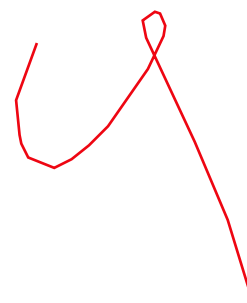
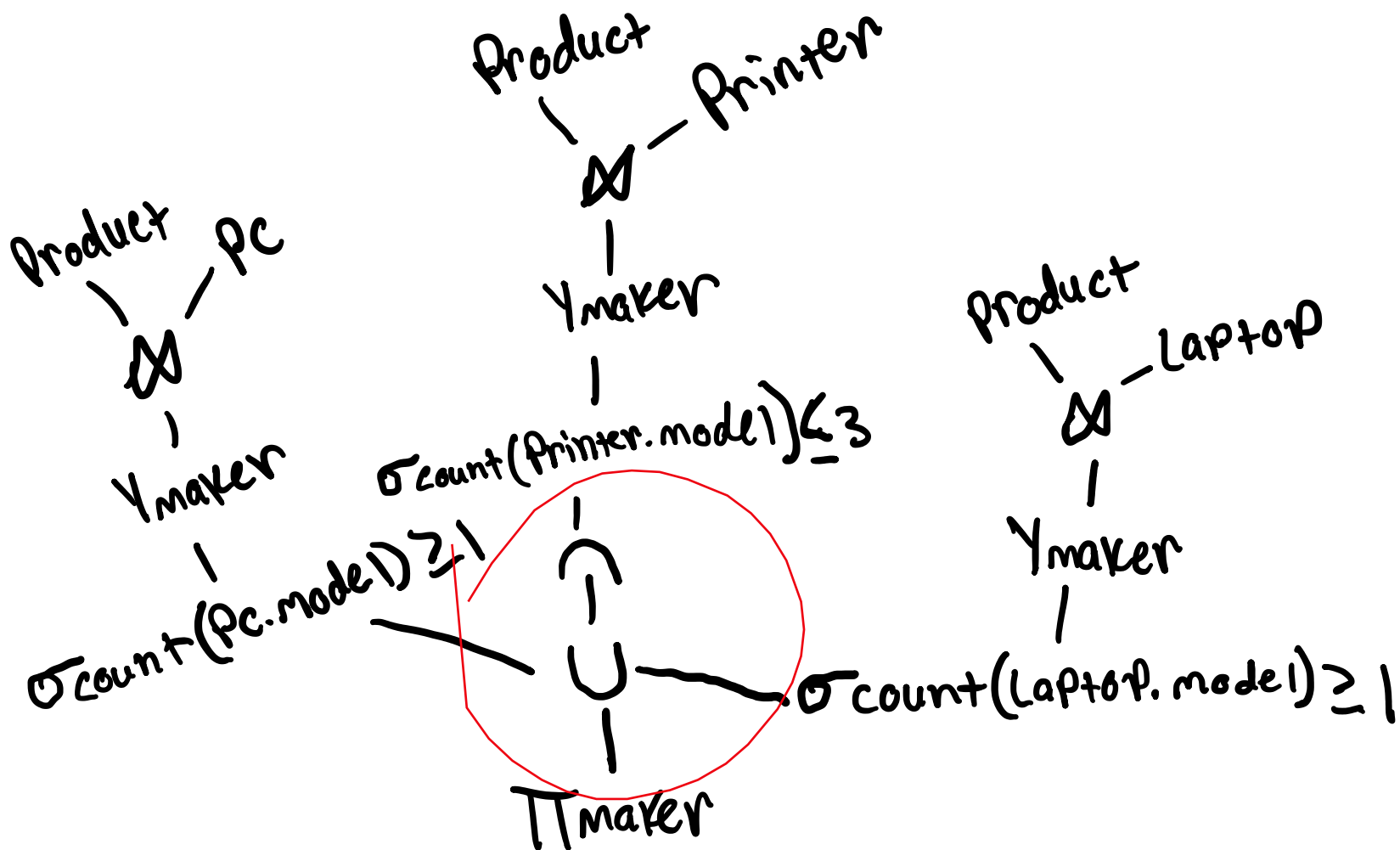


5

Exam 19)

Wednesday, October 28, 2020

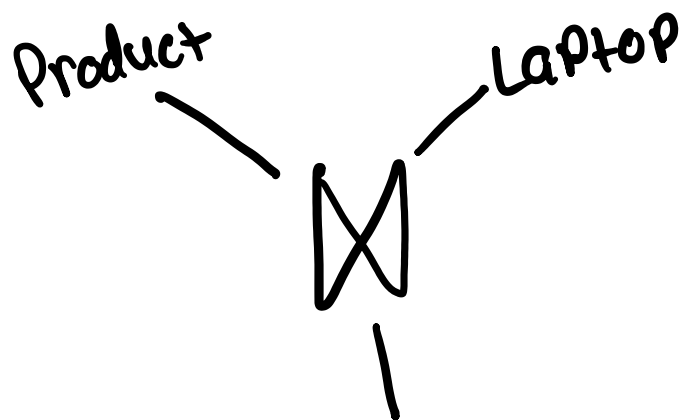
7:51 PM



Exam 20)

Wednesday, October 28, 2020

7:51 PM



$\sigma_{\text{Laptop.model} = \text{Product.model}}$

$\text{AND Laptop.screen} \geq 15$

$\text{AND Laptop.speed} < 2$

$\text{AND maker IN } \pi_{\text{maker}}$

Product

$\sigma_{\text{type} = \text{'printer'}}$

π_{maker}

$\pi_{\text{Product.maker, Laptop.model, Laptop.screen, Laptop.speed}}$

