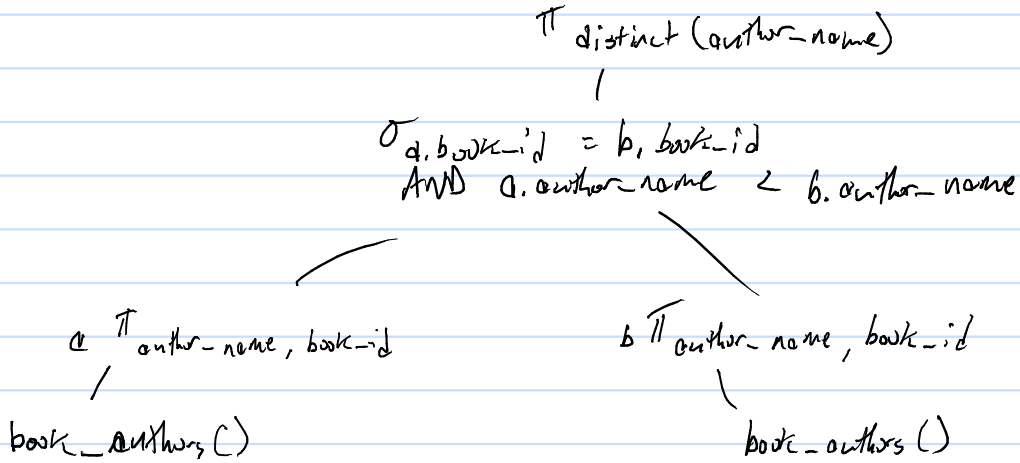
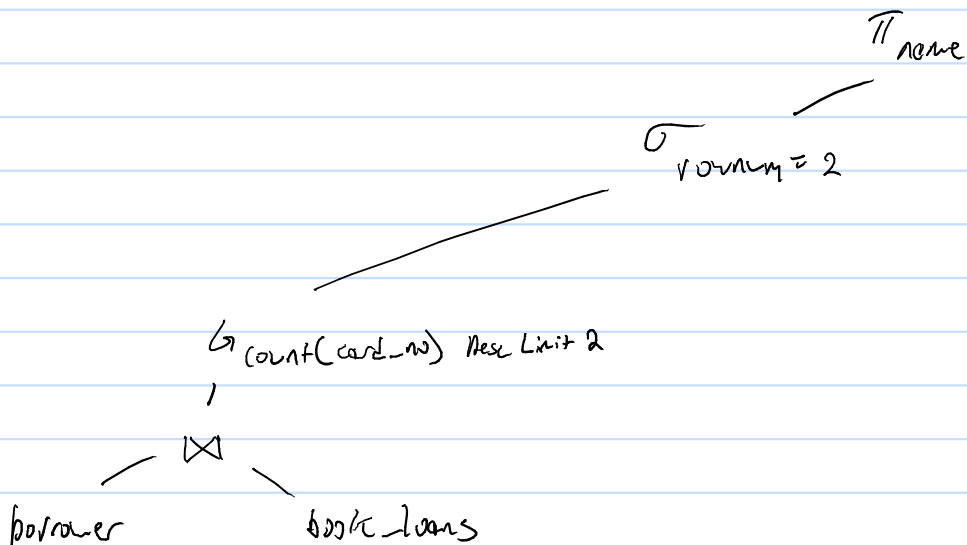


26c) 
$$\begin{aligned} a &\leftarrow \pi_{\text{author\_name, book\_id}} (\text{Book\_Authors}) \\ b &\leftarrow \pi_{\text{author\_name, book\_id}} (\text{Book\_Authors}) \end{aligned}$$

$$\text{Result} \leftarrow \pi_{\text{distinct}(\text{author\_name})} \left( \sigma_{a.\text{book\_id} = b.\text{book\_id} \text{ AND } a.\text{author\_name} < b.\text{author\_name}} (\text{books\_authors}) \right)$$
 $2ci)$ 

26c) Desc\_Card  $\leftarrow$  G<sub>count</sub>(Card\_no) desc limit 2 (borrower w/ back loans)

output  $\leftarrow \sigma_{\text{rownum}=2}(\text{Desc\_Card})$

$$\text{result} \leftarrow \pi_{\text{normve}}(\text{output})$$
$$2 \subset \mathbb{C}^1)$$


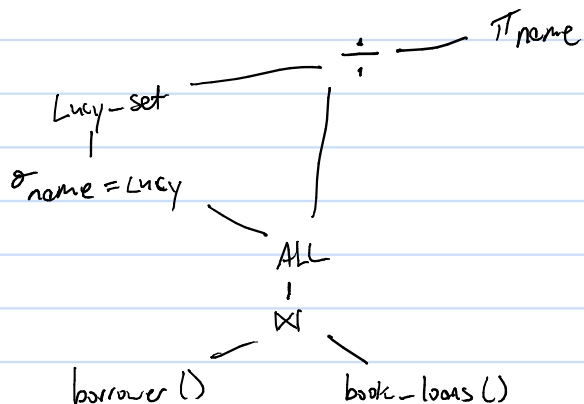
2b iii)

$Lucy\_set \leftarrow \sigma_{name = 'Lucy'} (book\_loans \bowtie borrower)$

$all \leftarrow \sigma (book\_loans \bowtie borrower)$

$\pi_{name} (all \div Lucy\_set)$

2c iii)



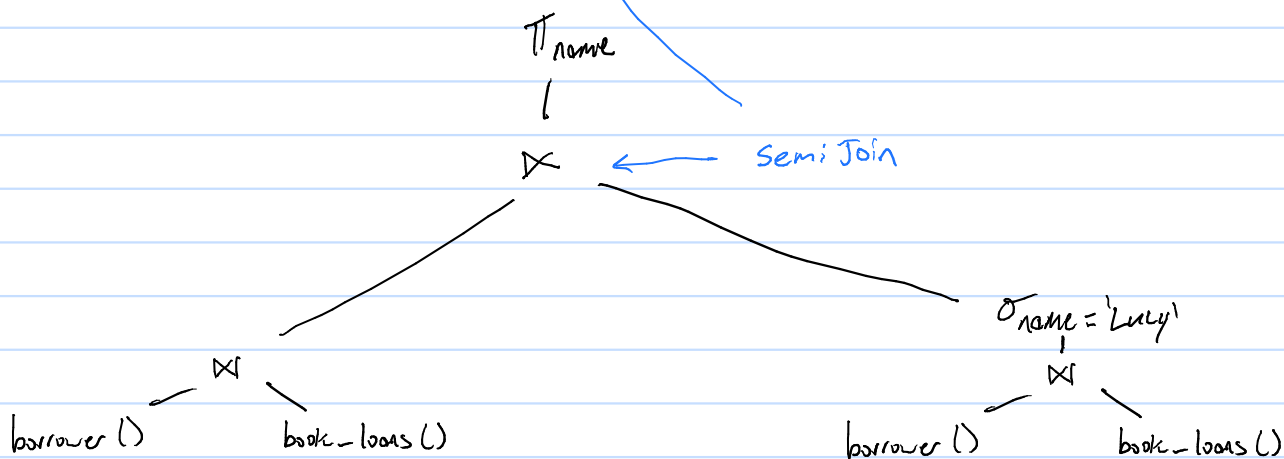
2b iii)

$Lucy\_set \leftarrow \sigma_{name = 'Lucy'} (book\_loans \bowtie borrower)$

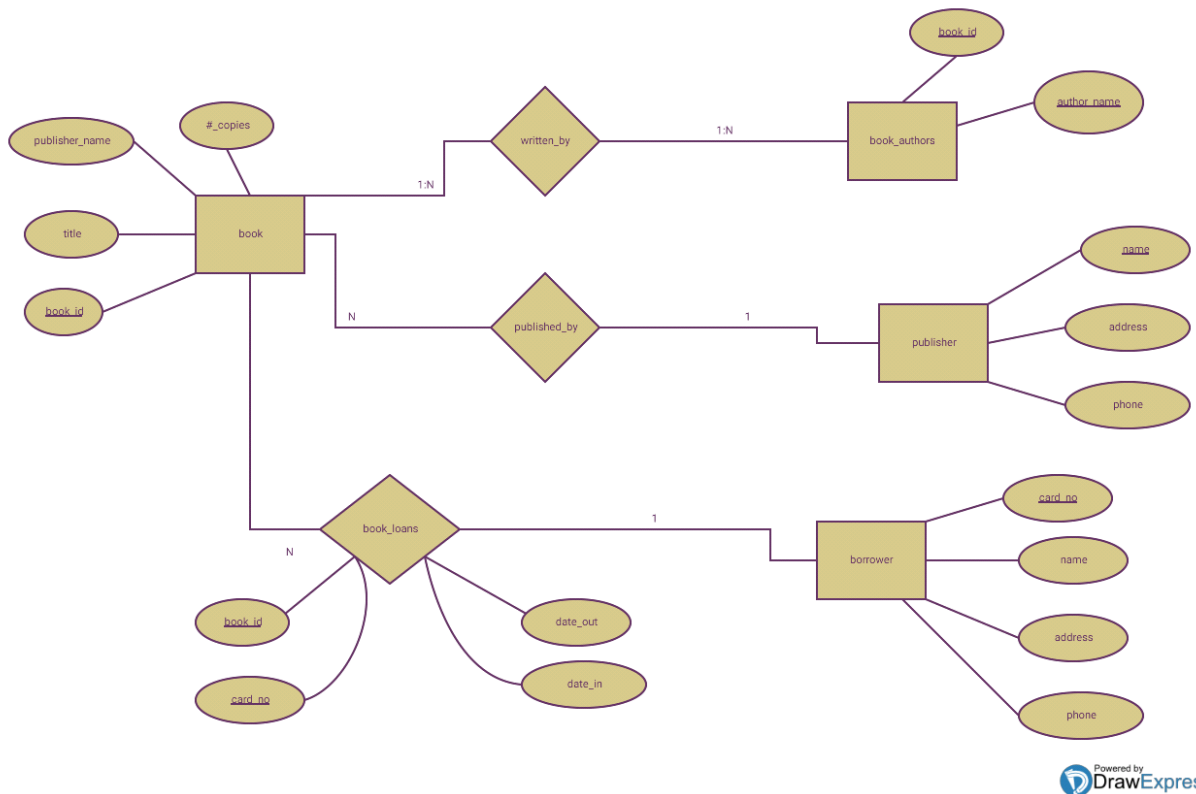
$all \leftarrow \sigma (book\_loans \bowtie borrower)$

$\pi_{name} (all \bowtie Lucy\_set)$

2c iii)



3)



Activity, 4)

7.32 :

