

## Question 1

a.

```
RedBooks  $\leftarrow \sigma_{(\text{color} = \text{"red"})}(\text{Book})$   
A  $\leftarrow \text{RedBooks} \bowtie_{(\text{Book.ISBN} = \text{Distribute.ISBN})} \text{Distribute}$   
Calgary  $\leftarrow \sigma_{(\text{sname} = \text{"Calgary"})}(A)$   
Result  $\leftarrow \pi_{(\text{name}, \text{city})}(A - \text{Calgary})$ 
```

b.

```
Schools  $\leftarrow \sigma_{(\text{city} = \text{"Paris"})}(\text{School})$   
A  $\leftarrow \text{Schools} \bowtie_{(\text{sname} = \text{name})} \text{Distribute}$   
B  $\leftarrow A \bowtie_{((\text{pname} = \text{name}) \text{ and } (\text{Publisher.city} = \text{"London"}))} \text{Publisher}$   
Result  $\leftarrow \pi_{(\text{director})}(B)$ 
```

c.

todo

d.

todo

e.

todo

## Question 2

a.

todo

b.

todo

c.

todo

d.

todo

e.

todo