

SE2222 – ASSIGNMENT 3(in-class)

1)

 $\pi_{A,C}(r)$

A	C
α	2
β	2
β	4

 $\pi_{Age,Weight}(\text{Person})$

Age	Weight
34	180
28	164
28	170
54	154

2)

 $\sigma_{(A=B) \wedge (D>5)}(r)$

A	B	C	D
α	α	1	7
β	β	23	10

3)

 $r \times s$

A	B	C	D	E
α	1	α	10	+
α	1	β	20	+
α	1	β	20	-
α	1	γ	10	-
β	2	α	10	+
β	2	β	20	+
β	2	β	20	-
β	2	γ	10	-

4) $\pi_{title,year}(\sigma_{length \geq 100 \text{ AND } \sigma_{studioName = 'Fox'}(Movies))$

5)

a) $\pi_{model}(\sigma_{speed \geq 3.00}(PC))$ b) $(\pi_{maker}(Product \bowtie laptop)) - (\pi_{maker}(Product \bowtie pc))$ c) $\pi_{model,price}(\sigma_{maker = 'B'}(Product)) \cap ((\pi_{model,price}(Product \bowtie pc)) \cup (\pi_{model,price}(Product \bowtie laptop)) \cup (\pi_{model,price}(Product \bowtie printer)))$