

### 作業3 參考解答

**(a) A PC with a processor speed less than 2.00 must not sell for more than \$500.**

$$\sigma_{\text{speed} < 2.00 \wedge \text{price} > 500}(\text{PC}) = \emptyset$$

**(b) A laptop with a screen size less than 15.4 inches must have at least a 100 gigabyte hard disk or sell for less than \$1000.**

$$\sigma_{\text{screen} < 15.4 \wedge \text{hd} < 100 \wedge \text{price} \geq 1000}(\text{Laptop}) = \emptyset$$

**(c) No manufacturer of PC's may also make laptops.**

$$\pi_{\text{maker}}(\text{Product} \bowtie_{\text{PC}}) \cap \pi_{\text{maker}}(\text{Product} \bowtie_{\text{Laptop}}) = \emptyset$$

**(e) If a laptop has a larger main memory than a PC, then the laptop must also have a higher price than the PC.**

$$\sigma_{\text{Laptop.ram} > \text{PC.ram} \wedge \text{Laptop.price} \leq \text{PC.price}}(\text{Laptop} \times \text{PC}) = \emptyset$$

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國立屏東大學資訊工程學系

CSIE, NPTU

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