

## 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.**

<math> \sigma\_{\{ \text{speed} < 2.00 \wedge \text{price} > 500 \}}(\text{PC}) = \emptyset </math>

**(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.**

<math> \sigma\_{\{ \text{screen} < 15.4 \wedge \text{hd} < 100 \wedge \text{price} \geq 1000 \}}(\text{Laptop}) = \emptyset </math>

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

<math> \pi\_{\{ \text{maker} \}}(\text{Product} \bowtie \text{PC}) \bigcap \pi\_{\{ \text{maker} \}}(\text{Product} \bowtie \text{Laptop}) = \emptyset </math>

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

<math> \sigma\_{\{ \text{Laptop.ram} > \text{PC.ram} \wedge \text{Laptop.price} \leq \text{PC.price} \}}(\text{Laptop} \times \text{PC}) = \emptyset </math>

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Total: 251336



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Last update: 2019/07/02 15:01