

Clicker Unit 2

1 1 point

Given are two sets A and B:

$$A = \{a, b\}$$

$$B = \{1, 2, 3\}$$

What is the cartesian product of these sets: $A \times B$?

- ☒ $A \times B = \{(a,1), (a,2), (a,3), (b,1), (b,2), (b,3)\}$
- ☐ $A \times B = \{(1,a), (1,b), (2,a), (2,b), (3,a), (3,b)\}$
- ☐ $A \times B = \{(1,a), (2,a), (3,a), (b,1), (b,2), (b,3)\}$

2 1 point

Given the abstract relation definition

Employee(ID:Integer, Name:String, DoB:Date)

which of the following statements is **incorrect**?

- ☐ The relation could contain the tuples $\{(1, \text{'Axel Polleres'}, \text{'01-01-2021'}), (1, \text{'Stefan Treitl'}, \text{'01-01-2021'})\}$
- ☐ The relation could contain the tuples $\{(1, \text{'Stefan Treitl'}, \text{'01-01-2021'}), (2, \text{'Stefan Treitl'}, \text{'01-02-2020'})\}$
- ☒ The relation could contain the tuples $\{(1, \text{'Axel Polleres'}, \text{'01-01-2021'}), (2, \text{'Axel Polleres'}, \text{'01-01-2021'})\}$

3 1 point

Given are two tables *Sizes* and *Codes* which represent some pandas and their corresponding sizes or zip codes. (HINT: it's easy to see that in the tables the name attribute is not a unique key... Don't get confused by that!)

Sizes

Name	Size
Happy	1.0
Sad	4.0
Happy	3.0