**Scalable Data Infrastructures Day 4 Lab**

**MDV2330-L Using Logical Operators**

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Fill in the truth tables below by manipulating the code in the *logic-tables.js* file attached to this lab on FSO. Keep in mind the following:

&& is the JavaScript equivalent of AND

|| is the JavaScript equivalent of OR

! is the JavaScript equivalent of NOT

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**Table 1**

**P**

**Q**

**P && Q**

T

T

true

T

F

false

F

T

false

F

F

false

**Table 2**

**P**

**Q**

**P || Q**

T

T

true

T

F

false

F

T

false

F

F

false

**Table 3**

**P**

**Q**

**R**

**(P && (Q || R)**

T

T

T

true

T

T

F

true

T

F

T

t

T

F

F

f

F

T

T

t

F

T

F

t

F

F

T

t

F

F

F

f

**Table 4**

**P**

**Q**

**R**

**(P && !Q) || R**

T

T

T

t

T

T

F

f

T

F

T

t

T

F

F

t

F

T

T

t

F

T

F

f

F

F

T

t

F

F

F

f

**Table 5**

**P**

**Q**

**R**

**P || (Q || R)**

T

T

T

t

T

T

F

t

T

F

T

t

T

F

F

t

F

T

T

t

F

T

F

t

F

F

T

t

F

F

F

f