Breakout room	**Activity**
1	$P(Q1 = \text{Love it})$
	$P(Q2 = \text{R} \mid Q1 = \text{Love it})$
	$P(Q2 = \text{R} \cap Q1 = \text{Love it})$
2	$P(Q1 = \text{Love it})$
	$P(Q2 = \text{Excel} \mid Q1 = \text{Love it})$
	$P(Q2 = \text{Excel} \cap Q1 = \text{Love it})$
3	$P(Q2 = \text{R})$
	$P(Q1 = \text{Love it} \mid Q2 = \text{R})$
	$P(Q1 = \text{Love it} \cap Q2 = \text{R})$
4	$P(Q2 = \text{Excel})$
	$P(Q1 = \text{Love it} \mid Q2 = \text{Excel})$
	$P(Q1 = \text{Love it} \cap Q2 = \text{Excel})$
5 (a little more advanced)	$P(Q1 = \text{Crying} \cup \text{Meh})$
	$P(Q2 = \text{R} \cap Q1 = \text{Crying} \cup \text{Meh})$
	$P(Q2 = \text{R} \mid Q1 = \text{Crying} \cup \text{Meh})$

$$P(Q2 = \text{R} \cap Q1 = \text{Love it}) = P(Q1 = \text{Love it} \cap Q2 = \text{R})$$

$$P(Q2 = \text{R}) + P(Q2 = \text{Excel}) = 1$$

$$P(Q1 = \text{Love it}) + P(Q1 = \text{Crying} \cup \text{Meh}) = 1$$

$$P(Q2 = \text{Excel} \mid Q1 = \text{Love it}) + P(Q2 = \text{R} \mid Q1 = \text{Love it}) = 1$$

$$P(Q2 = \text{Excel} \cap Q1 = \text{Love it}) + P(Q2 = \text{R} \cap Q1 = \text{Love it}) = P(Q1 = \text{Love it})$$