Example of Lossless Decomposition

- Decomposition of $R = (A, B, C)$

$$R_1 = (A, B) \quad R_2 = (B, C)$$

A	B	C
α	1	A
β	2	B

r

A	B
α	1
β	2

$\prod_{A,B}(r)$

B	C
1	A
2	B

$\prod_{B,C}(r)$

$\prod_{A}(r) \bowtie \prod_{B}(r)$

A	B	C
α	1	A
β	2	B