About the dom

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In the page 3 of the handout, dom is introduced in the part b.
The problem can also be solved by a natural join.
$\{(x_1, ..., x_k, y_1, ..., y_l, z_1, ..., z_m) \mid \phi_1(x_1, ..., x_k, y_1, ..., y_l) \wedge \phi_2(y_1, ..., y_l, z_1, ..., z_m)\}$
$\Longrightarrow E_{\phi_1} \bowtie E_{\phi_2}$
It equals to
$\Longrightarrow (E_{\phi_1} \times dom^m) \cap (dom^l \times E_{\phi_2})$
Also it equals to
$\Longrightarrow (E_{\phi_1} \times dom^m) \bowtie (dom^l \times E_{\phi_2})$