

$$1a) \prod_{\substack{\text{cod-prod}, \\ \text{nome-prod}, \\ \text{cod-pizza}}} (\text{produtos} \bowtie \text{pizzas-produtos}) \div \prod_{\text{cod-pizza}} (\sigma_{\text{preco} > 50}(\text{pizzas}))$$

$$1b) \prod_{\substack{c.\text{cod-di}, \\ c.\text{nome-di}, \\ cp.\text{cod-pizza}}} (\sigma_{c.\text{cod-di} = cp.\text{cod-di}} (\rho_c(\text{clientes}) \times \rho_{cp}(\text{clientes-pizza}))) \\ \div \prod_{\text{cod-pizza}} (\sigma_{\text{preco} > 60.00}(\text{pizzas}))$$

$$1c) \prod_{\substack{\text{cod-di}, \\ \text{nome-di}}} (\text{clientes}) \bowtie (\text{clientes-pizzas} \bowtie \text{pizzas})$$

1d)

$$(\sigma_{\text{preco} > 100}(\text{produtos}) \bowtie \text{pizzas-produtos}) \bowtie \text{pizzas}$$