

Activity 2: A bit of theory

Given the following relations used in a e-commerce website

Product(pid, pname, price)

Orders(oid, pid, cid, qnt, date)

Customer(cid, cname, city)

Explain what the following relational algebra expression returns.

$$\Pi_{\text{city}}(\text{Customer} \bowtie (\Pi_{\text{cid}}(\text{Customer}) - \Pi_{\text{cid}}(\sigma_{\text{qnt} < 100}(\text{Orders}))))$$