Relational Algebra Exercises 1

Write the relational algebra expressions for the following queries. Use the database schema given below.

1. Find the full names and phone numbers of the customers.
2. Find the orders placed on 01-01-2020.
3. Find the names and descriptions of the products (items) cheaper than 50 TL.
4. Find the full names and phone numbers of the customers who have placed orders on 01-01-2020.
   a. Solve using Cartesian product.
   b. Solve using Natural join.
5. Find the cities which had orders on:
   a. 01-01-2020.
   b. 01-01-2020 or 01-01-2021 (use set union).
6. Find the names and prices of the products (items) in the order "762".
7. Find the price of the order "762".