**Lab 1 : Algebraic query language**

**We have the database consist of 5 relations:**

Product (ProductCode, Name, PurchasePrice, SellPrice, Type, SupplierCode)

Supplier (SupplierCode, SupplierName, Address)

Employee (EmloyeeID, FullName, Gender, BirthDate, Address)

Invoice (InvoiceID, SellDate, EmployeeID)

InvoiceLine(ProductCode, InvoiceID, Quantity)

**Write expressions of relational algebra to answer the following queries:**

1. Find name and sell price of televisions supplied by Sony.
2. Find name and address of all suppliers who supply television product.
3. Find name of all employee who were born in 1986.
4. Find name and type of all products sold in ‘23/05/2020’.
5. Find name of female employees who sold televisions.
6. Find name and address of suppliers who supply both television and mobile.
7. List name and price of all product sold by employee “Nguyễn Văn A” in April 2020.
8. Find name and price of all mobile products of LG sold in April 2020.
9. Find the product with highest SellPrice.
10. Find the amount (quantity \* sellPrice) of each invoice line of product sold in 30/04/2020.