

## **Practical exercise 3 - Reference Types and Recursive Queries**

### **1. Reference Types**

Add a `REF` type attribute to the `Employee` type that represents the boss of an employee. Set the `SCOPE` of this reference to the `employee` table itself.

Insert tuples such that the following hierarchy is represented in the database: John is the boss of Marie and Peter, Peter is the boss of Felix and Evelyn, Marie is the boss of Charles, and Paul is the boss of George and Keith.

Formulate a query that lists all the employees and their bosses.

### **2. Recursive Queries**

Formulate a recursive query using the `CONNECT BY PRIOR` syntax that lists all of the employees managed directly or indirectly by John.