MyPersonalNetwork – Requirement Analysis

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1.Aims of software

The system has multiple objectives and its main idea is to memorize every single information regarding contacts and personal relationships.

The system will allow to visually represent all the connections in the form of a directed graph. By exploring this network, you can discover new connections and new ways to contact people who may not be directly connected to the graph.

In this file we enclose all the technical bases that will make up the system.

2.Tecnical structure

The system interacts with a local database in which the information relating to its connections and the relative relationships are entered.
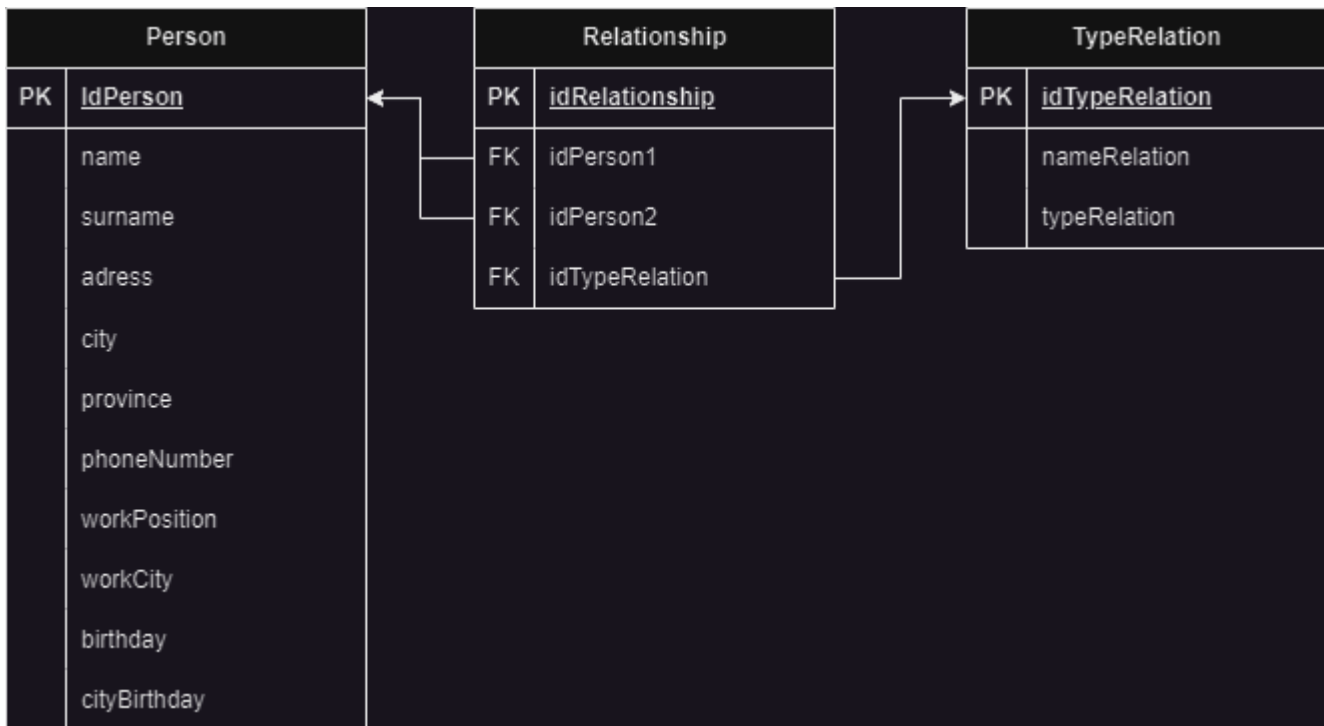
The information of the historicized persons are:

Information	Type of information
Id	Integer or Long
Name	String
Surname	String
Adress	String
City	String
Province	String
Phone number	String
Work positon	String
Work city	String
Company	String
Birthday	Date
City of birthday	String

The connection between the people are stored into a table that match the id of people and the relative id of the type of relation.

There are two type of relation: **family relation** and **work relation**. There are two table to store this type of information that we can resume in this schema table.

Relation	Type of relation	IT Translate
Son	Family Relation	Figlio
Daughter	Family Relation	Figlia
Brother	Family Relation	Fratello
Sister	Family Relation	Sorella
Mother	Family Relation	Madre
Father	Family Relation	Padre
Grampa	Family Relation	Nonno
Grandmother	Family Relation	Nonna
Great grandmother	Family Relation	Bisnonna
Great grandfather	Family Relation	Bisnonno
Uncle	Family Relation	Zio
Aunt	Family Relation	Zia
Grandchild	Family Relation	Nipote
Cousin	Family Relation	Cugino
Son in law	Family Relation	Genero
Daughter in law	Family Relation	Nuora
Father in law	Family Relation	Suocero
Wife	Family Relation	Moglie
Husband	Family Relation	Marito
Friend	Family Relation	Amico
Girl Friend	Family Relation	Fidanzata
Boy Friend	Family Relation	Fidanzato
Colleague	Work Relation	Collega
Boss	Work Relation	Capo

Person		Relationship		TypeRelation	
PK	IdPerson	PK	idRelationship	PK	idTypeRelation
	name	FK	idPerson1		nameRelation
	surname	FK	idPerson2		typeRelation
	adress	FK	idTypeRelation		
	city				
	province				
	phoneNumber				
	workPosition				
	workCity				
	birthday				
	cityBirthday				

3.Main Functionality

The software will allow the insertion, modification and deletion of known people, and the relative connections. Each connection will have its own label taken from the relative database tables.

The system will also allow you to query the database to understand how to reach a new person through the contacts entered in the database. It will also allow you to view the network of contacts in the form of an oriented graph.

4. Database

Below is the entity relation schema of the database with the properties of the tables