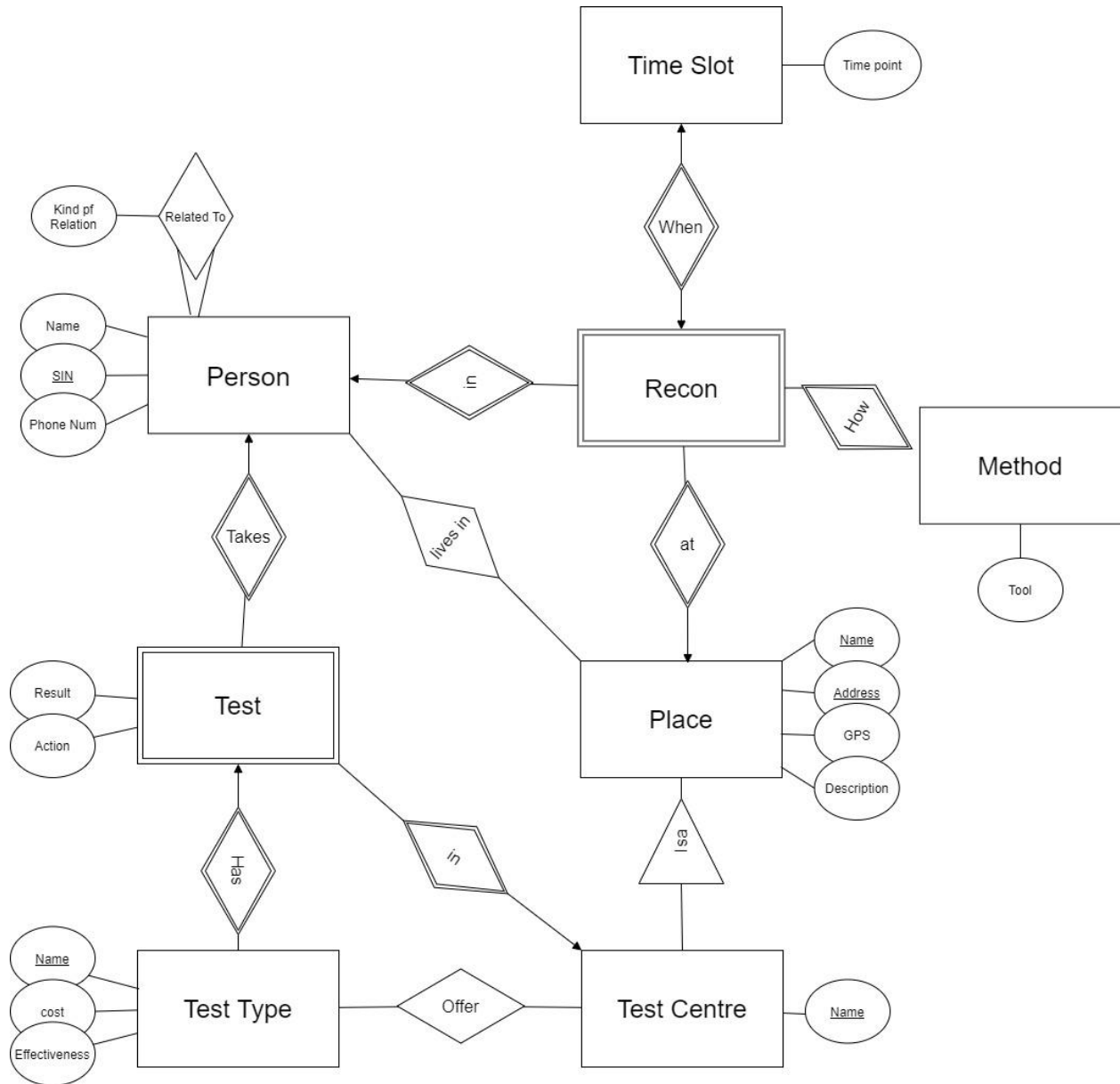# Database Project

19.03.2020
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Overview

In this project, we are supposed to design an E/R diagram for contact tracing to be able to trace rapidly people who may have been in close proximity to someone diagnosed with coronavirus.

Diagram

Documentation

This Documentation has been written to clarify some points not to fully explain the whole project

Entities

I. Recon

    I have made recon entity a weak entity because its value comes from other entities person, place and time.

II. Test

    The test is a weak entity because it doesn't have an obvious primary key.

III. Test Centre

    The Test Centre is actually a place so it is supposed to be derived from place entity

Relations

I. Person

    The person Entity will have four relations first the recursive one which is the people relations between each other like family members friends.

II. Person Address

    The person's address better is a relation with the place to reduce redundancy.

III. Test and Test Type

Many to one relationship with test type, a test has only one type but the type could have many tests of the same type.

IV. Test and Test Centre

Many to one relationship with the test centre because each test has one test centre it comes from and each test centre can make many tests.

V. Test Centre and Test Type

many-to-many relationship because each test type could be served at many test centres and each test centre could have many test types.