

Assumptions & Restrictions

Assumptions:

- RAMQ correctly identifies the priority group of each Person.
- RAMQ inputs the specifications of each Person. This includes their occupation (Health Care Worker, Essential Service Worker, Teacher, Others), if they are immunologically compromised or healthy and if they are in the proximity to other priority groups.
[Age can be derived from the dob attribute]
- The waiting period of a vaccine is always going to be the same.

Restrictions:

- Could not depict the ordinal order of the categories of priorities.

Relational Translation

Entities:

- Persons(hinsurnum, name, gender, regisdate, phone, city, streetadd, postalcode, city)
- Slots(slotid, createdate, dateofshot, timeofshot, hinsurnum) *hinsurnum foreign key ref Persons*
- VaccLocations(lid, city, postalcode, streetadd)
- Nurses(licenseid, date, nname, employer, lid) *lid foreign key ref VaccLocations*
- Vaccine(vname, numofdoses, waitprd)

Weak Entities:

- Category (hinsurnum, priority, specifications) *hinsurnum ref Persons*
- Batch (vname, batchnum, mfgdate, expdate) *vname ref Vaccine*
- Vial (vname, batchnum, vialnum) (*vname, batchnum ref Batch*)

Relations:

- allocat(slotid, hinsurnum, dateofalloc) *slotid ref Slots, hinsurnum ref Persons, (hinsurnum NOT NULL)*
- Liason(date, licenseid, vialnum, slotid, totalvialused) (*date, licenseid ref Nurses, vialnum ref Vial, slotid ref Slots, (slotid NOT NULL, vialnum NOT NULL, the participation constratin of Nurses to vial could not be represented by the relational model)*)
- slots_avb(slotid, lid, total_slots) *slotid ref Slots, lid ref VaccLocations, slotid NOT NULL*