**Updated stage 2 for stage 4**

Volunteer (ssn, fname, lname, street, city, state, phone, project\_preference, date\_accepted, worked\_hours)

* ssn is pk (primary key) of the table

Project (project\_id, project\_name, description, project\_state, project\_city, project\_street, project\_supervisor\_ssn, project\_volunteer)

* Project\_id is pk (primary key) of the table.
* project\_supervisor\_ssn is the foreign key; it is referenced from attribute ssn in entity volunteer.
* project\_volunteer is the foreign key; it is referenced from attribute volunteer\_id in entity volunteer.

Donor (donor\_id, company, donor\_phone, donor\_fname, donor\_lname)

* donor\_id is pk (primary key) of the table.

Timeslot (slot\_id, date, start\_time, finish\_time, project\_slot)

* slot\_id is pk (primary key) of the table
* project\_slot is the foreign key; it is referenced from attribute project\_id in entity project.

Signup (ssn, project\_id)

* ssn CHAR (11) this is the foreign key; it is referenced from attribute ssn in entity volunteer.
* project\_id CHAR (11) this is the foreign key; it is referenced from attribute project\_id in entity Project.

Schedule (slot\_id, ssn)

* slot\_id CHAR (11) this is the foreign key; it is referenced from attribute slot\_id in entity timeslot.
* ssn CHAR (11) this is the foreign key; it is referenced from attribute ssn in entity volunteer.

Donation (project\_id, donor\_id, date, amount)

* project\_id CHAR (11) this is the foreign key; it is referenced from attribute project\_id
* donor\_id CHAR (11) this is the foreign key; it is referenced from attribute donor\_id from attribute donor.

Volunteer\_Position (ssn, position)

* ssn CHAR (11) this is the foreign key; it is referenced from attribute ssn in entity volunteer.

Location (project\_id, location)

* project\_id CHAR (11) this is the foreign key; it is referenced from attribute project\_id

**Description of each table**

**Table Volunteer**

Description- This table is designed to recognize the volunteer information with attributes like ssn, fname, lname, address, phone, project preference, date accepted for volunteer, and working hours. This table has information about volunteer who works on project, register. For timeslots with specific project, supervise one or more projects and hold one or more. Positions in the organization. In addition to that, in this table primary key is ssn.

* ssn CHAR (11) this is the primary key, and this should never be null. **Volunteer ssn**
* fname VARCHAR (45) **volunteer first name**
* lname VARCHAR (45) **volunteer last name**
* street VARCHAR (75) **volunteer street address**
* city VARCHAR (45) **volunteer city address**
* state CHAR (2) **volunteer state address**
* phone CHAR (12) **volunteer phone**
* project\_preference VARCHAR (45) **volunteer preference**
* volunteer\_id CHAR (11) **volunteer identification**
* date\_accepted DATE **volunteer start date**
* worked\_hours FLOAT (10) **volunteer hours worked to date**

**Table Project**

Description- This table describes the information about the project. Volunteer who signed up for particular project. This table keep track of which project has schedule for timeslot and who is the supervisor of particular project. So, each project must have one supervisor and they can supervise one or more projects. Each project is must associated to one timeslot. In addition to that, in this table primary key is project\_id. Foreign keys are project\_supervisor\_ssn, project\_volunteer, project\_slotid, project\_donor. project\_supervisor\_ssn keep is referenced from attribute ssn in entity volunteer to keep track of the supervisor who are in associated in the project. project\_volunteer is referenced from attribute volunteer\_id in entity volunteer keep track of volunteer in the projects. project\_slotid is referenced from attribute slot\_id in entity timeslot this is to see which slot id is associated with which project. Do keep track of donors money project\_donor is used it is referenced from attribute donor\_id in entity donor.

Attribute---type ---description

* project\_id CHAR (11) this is the primary key, and this should never be null. **project identification**
* project\_name VARCHAR (45) **Name of the project**
* description VARCHAR (128) **project description**
* project\_supervisor\_ssn CHAR (11) this is the foreign key **project supervisor**
* project\_volunteer CHAR (11) this is the foreign key **project volunteer id**

**Table Donor**

Description- This table is for the identify the donor and the donor information. Each donor can donate to specific project or to multiple projects. In this entity donorid is primary key.

Attribute---type ---description

* donor\_id CHAR (11) this is the primary key, and this should never be null. **Donor identification number**
* company VARCHAR (45) **Donor employer/company**
* donor\_phone CHAR (12) **Donor phone**
* donor\_fname VARCHAR (45) **Donor first name**
* donor\_lname VARCHAR (45) **Donor last name**

**Table Timeslot**

Description- This table just keep track of project because each project must have one timeslot and this table is designed to keep track of project schedule timeslot and the volunteer schedule timeslot. This entity is associate with entity volunteer and project. slotid is the primary key for this entity. Since it is associated with entity volunteer and project so, volunteer\_slot is referenced from attribute Volunteer\_id in entity volunteer to make sure every registered volunteer has schedule timeslot. project\_slot is referenced from attribute project\_id in entity project to make sure all the project has timeslot.

Attribute---type ---description

* slot\_id CHAR (11) this is the primary key, and this should never be null. **Schedule id number**
* Date DATE **Schedule date**
* start\_time TIME **Schedule start**
* finish\_time TIME **Schedule ends**
* project\_slot CHAR (11) this is the foreign key **Schedule project id**

**Table** **donation**

Description- This table is the relationship between the project and the donor table which makes them connected and this table keep track of money is donated by the donor and when it is donated in form of date.

Attribute---type ---description

* amount DECIMAL (10,2) **Amount donated by donor**
* donation\_date DATE **Date of the donation**
* project\_id CHAR (11) this is the foreign key **Project identification number**
* donor\_id CHAR (11) this is the foreign key **donor identification number**

**Table** **Signup**

Description- This table is the relationship between the volunteer and project. This table is made only because the relationships is many to many between the volunteer and project. Here ssn and project\_id is used to track the signup relationships.

Signup (ssn, project\_id)

* ssn CHAR (11) this is the foreign key **volunteer Social Security Number**
* project\_id CHAR (11) this is the foreign key **Project identification number**

**Table Schedule**

Description- This table is the relationship between the timeslot and volunteer. This table is made only because the relationships is many to many between the timeslot and volunteer. Here slot\_id and ssn is used to track the schedule relationships.

Schedule (slot\_id, ssn)

* slot\_id CHAR (11) this is the foreign key **Schedule id number**
* ssn CHAR (11) this is the foreign key **volunteer Social Security Number**

**Table Volunteer\_Position**

Description- This table is made only because volunteer\_position is multivalued attribute. Here ssn and Volunteer\_Position is used to track all the positions in Volunteer\_Position.

Volunteer\_Position (ssn, Volunteer\_Position)

* ssn CHAR (11) this is the foreign key **volunteer Social Security Number**

**Table location**

Description- This table is made only because project location is multivalued attribute. Here project\_id and location are used to track all the location of the project.

Location (project\_id, location)

* project\_id CHAR (11) this is the foreign key **Project identification number**