**[IV] Point #2 : SQL that creates the table structure**

**NOTE: Mysql 5.7 has been used to create NGO/CBO database.**

1. Create database using below command

create database ngocbo;

1. Copy commands in **point #4** below into NGO\_DB\_STRUCTURE.sql
2. Execute below command (make sure user has privileges)

mysql -uroot -p ngocbo < NGO\_DB\_STRUCTURE.sql

/\*!40014 SET @OLD\_FOREIGN\_KEY\_CHECKS=@@FOREIGN\_KEY\_CHECKS, FOREIGN\_KEY\_CHECKS=0 \*/;

DROP TABLE IF EXISTS `activities`;

CREATE TABLE `activities` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`class\_id` int(11) NOT NULL,

`activity\_name` varchar(255) DEFAULT NULL,

PRIMARY KEY (`id`),

UNIQUE KEY `activity\_name` (`activity\_name`),

KEY `fk\_class\_id` (`class\_id`),

CONSTRAINT `fk\_class\_id` FOREIGN KEY (`class\_id`) REFERENCES `class` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `address`;

CREATE TABLE `address` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`address\_1` varchar(255) DEFAULT NULL,

`address\_2` varchar(255) DEFAULT NULL,

`city` varchar(255) DEFAULT NULL,

`state` varchar(255) DEFAULT NULL,

`country` varchar(255) DEFAULT NULL,

`zipcode` varchar(255) DEFAULT NULL,

`phone\_no` varchar(255) DEFAULT NULL,

`fax\_no` varchar(255) DEFAULT NULL,

`email` varchar(255) DEFAULT NULL,

PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `beneficiary\_group`;

CREATE TABLE `beneficiary\_group` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`name` varchar(255) DEFAULT NULL,

`description` varchar(2000) DEFAULT NULL,

PRIMARY KEY (`id`),

UNIQUE KEY `name` (`name`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `class`;

CREATE TABLE `class` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`name` varchar(255) NOT NULL,

PRIMARY KEY (`id`),

UNIQUE KEY `name` (`name`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `donor`;

CREATE TABLE `donor` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`donor\_name` varchar(255) DEFAULT NULL,

`address\_id` int(11) NOT NULL,

PRIMARY KEY (`id`),

UNIQUE KEY `donor\_name` (`donor\_name`),

KEY `address\_id` (`address\_id`),

CONSTRAINT `donor\_ibfk\_1` FOREIGN KEY (`address\_id`) REFERENCES `address` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `employee`;

CREATE TABLE `employee` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`first\_name` varchar(255) NOT NULL,

`last\_name` varchar(255) NOT NULL,

`designation` varchar(255) NOT NULL,

`address\_id` int(11) NOT NULL,

PRIMARY KEY (`id`),

KEY `address\_id` (`address\_id`),

CONSTRAINT `employee\_ibfk\_1` FOREIGN KEY (`address\_id`) REFERENCES `address` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `funds`;

CREATE TABLE `funds` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`fund\_type` varchar(255) DEFAULT NULL,

`name` varchar(255) DEFAULT NULL,

`description` varchar(2000) DEFAULT NULL,

`amount` float DEFAULT NULL,

`monetary\_value` float DEFAULT NULL,

`donor\_id` int(11) NOT NULL,

`pro\_id` int(11) DEFAULT NULL,

`ngo\_id` int(11) DEFAULT NULL,

PRIMARY KEY (`id`),

KEY `fk\_donor\_id` (`donor\_id`),

KEY `fk\_project\_id` (`pro\_id`),

KEY `fk\_ngo\_id` (`ngo\_id`),

CONSTRAINT `fk\_donor\_id` FOREIGN KEY (`donor\_id`) REFERENCES `donor` (`id`),

CONSTRAINT `fk\_ngo\_id` FOREIGN KEY (`ngo\_id`) REFERENCES `ngo` (`id`),

CONSTRAINT `fk\_project\_id` FOREIGN KEY (`pro\_id`) REFERENCES `project` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `ngo`;

CREATE TABLE `ngo` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`ngo\_name` varchar(255) NOT NULL,

`native\_language` varchar(255) DEFAULT NULL,

`latin\_name` varchar(255) DEFAULT NULL,

`type` varchar(255) DEFAULT NULL,

`year\_founded` int(11) NOT NULL,

`head\_branch\_id` int(11) DEFAULT NULL,

`members` int(11) DEFAULT NULL,

`paid\_staff` int(11) DEFAULT NULL,

`employers` int(11) DEFAULT NULL,

`voluntary\_staff` int(11) DEFAULT NULL,

`professional\_staff` int(11) DEFAULT NULL,

`web\_address` varchar(255) DEFAULT NULL,

`contact\_emp\_id` int(11) DEFAULT NULL,

`mission` varchar(255) DEFAULT NULL,

`description` varchar(255) DEFAULT NULL,

`oth\_org\_activities` varchar(2000) DEFAULT NULL,

PRIMARY KEY (`id`),

KEY `contact\_emp\_id` (`contact\_emp\_id`),

KEY `fk\_head\_branch\_id` (`head\_branch\_id`),

CONSTRAINT `fk\_branch\_id` FOREIGN KEY (`head\_branch\_id`) REFERENCES `ngo\_branch` (`id`),

CONSTRAINT `fk\_head\_branch\_id` FOREIGN KEY (`head\_branch\_id`) REFERENCES `ngo\_branch` (`id`),

CONSTRAINT `ngo\_ibfk\_1` FOREIGN KEY (`contact\_emp\_id`) REFERENCES `employee` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `ngo\_branch`;

CREATE TABLE `ngo\_branch` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`ngo\_id` int(11) NOT NULL,

`branch\_type` varchar(255) DEFAULT NULL,

`contact\_emp\_id` int(11) DEFAULT NULL,

`address\_id` int(11) NOT NULL,

PRIMARY KEY (`id`),

KEY `ngo\_id` (`ngo\_id`),

KEY `fk\_address\_id` (`address\_id`),

KEY `fk\_emp\_id` (`contact\_emp\_id`),

CONSTRAINT `fk\_address\_id` FOREIGN KEY (`address\_id`) REFERENCES `address` (`id`),

CONSTRAINT `fk\_emp\_id` FOREIGN KEY (`contact\_emp\_id`) REFERENCES `employee` (`id`),

CONSTRAINT `ngo\_branch\_ibfk\_1` FOREIGN KEY (`ngo\_id`) REFERENCES `ngo` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `ngo\_class\_activities`;

CREATE TABLE `ngo\_class\_activities` (

`ngo\_id` int(11) NOT NULL,

`class\_act\_id` int(11) NOT NULL,

UNIQUE KEY `ngo\_id` (`ngo\_id`,`class\_act\_id`),

KEY `class\_act\_id` (`class\_act\_id`),

CONSTRAINT `ngo\_class\_activities\_ibfk\_1` FOREIGN KEY (`ngo\_id`) REFERENCES `ngo` (`id`),

CONSTRAINT `ngo\_class\_activities\_ibfk\_2` FOREIGN KEY (`class\_act\_id`) REFERENCES `activities` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `ngo\_org\_activities`;

CREATE TABLE `ngo\_org\_activities` (

`ngo\_id` int(11) NOT NULL,

`org\_act\_id` int(11) NOT NULL,

UNIQUE KEY `ngo\_id` (`ngo\_id`,`org\_act\_id`),

KEY `org\_act\_id` (`org\_act\_id`),

CONSTRAINT `ngo\_org\_activities\_ibfk\_1` FOREIGN KEY (`ngo\_id`) REFERENCES `ngo` (`id`),

CONSTRAINT `ngo\_org\_activities\_ibfk\_2` FOREIGN KEY (`org\_act\_id`) REFERENCES `organization\_activities` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `organization\_activities`;

CREATE TABLE `organization\_activities` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`name` varchar(255) NOT NULL,

PRIMARY KEY (`id`),

UNIQUE KEY `name` (`name`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `project`;

CREATE TABLE `project` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`project\_name` varchar(255) DEFAULT NULL,

`start\_date` date DEFAULT NULL,

`end\_date` date DEFAULT NULL,

`duration` int(11) DEFAULT NULL,

`project\_cost` float DEFAULT NULL,

`head\_emp\_id` int(11) NOT NULL,

PRIMARY KEY (`id`),

KEY `head\_emp\_id` (`head\_emp\_id`),

CONSTRAINT `project\_ibfk\_1` FOREIGN KEY (`head\_emp\_id`) REFERENCES `employee` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `project\_activity`;

CREATE TABLE `project\_activity` (

`act\_id` int(11) NOT NULL,

`pro\_id` int(11) NOT NULL,

UNIQUE KEY `act\_id` (`act\_id`,`pro\_id`),

KEY `pro\_id` (`pro\_id`),

CONSTRAINT `project\_activity\_ibfk\_1` FOREIGN KEY (`act\_id`) REFERENCES `activities` (`id`),

CONSTRAINT `project\_activity\_ibfk\_2` FOREIGN KEY (`pro\_id`) REFERENCES `project` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `project\_ben\_grp`;

CREATE TABLE `project\_ben\_grp` (

`pro\_id` int(11) NOT NULL,

`bg\_id` int(11) NOT NULL,

UNIQUE KEY `pro\_id` (`pro\_id`,`bg\_id`),

KEY `bg\_id` (`bg\_id`),

CONSTRAINT `project\_ben\_grp\_ibfk\_1` FOREIGN KEY (`pro\_id`) REFERENCES `project` (`id`),

CONSTRAINT `project\_ben\_grp\_ibfk\_2` FOREIGN KEY (`bg\_id`) REFERENCES `beneficiary\_group` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `project\_branch`;

CREATE TABLE `project\_branch` (

`pro\_id` int(11) NOT NULL,

`branch\_id` int(11) NOT NULL,

UNIQUE KEY `pro\_id` (`pro\_id`,`branch\_id`),

KEY `branch\_id` (`branch\_id`),

CONSTRAINT `project\_branch\_ibfk\_1` FOREIGN KEY (`pro\_id`) REFERENCES `project` (`id`),

CONSTRAINT `project\_branch\_ibfk\_2` FOREIGN KEY (`branch\_id`) REFERENCES `ngo\_branch` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `project\_scope`;

CREATE TABLE `project\_scope` (

`pro\_id` int(11) NOT NULL,

`sco\_id` int(11) NOT NULL,

UNIQUE KEY `pro\_id` (`pro\_id`,`sco\_id`),

KEY `sco\_id` (`sco\_id`),

CONSTRAINT `project\_scope\_ibfk\_1` FOREIGN KEY (`pro\_id`) REFERENCES `project` (`id`),

CONSTRAINT `project\_scope\_ibfk\_2` FOREIGN KEY (`sco\_id`) REFERENCES `scope` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

DROP TABLE IF EXISTS `scope`;

CREATE TABLE `scope` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`name` varchar(255) DEFAULT NULL,

`description` varchar(2000) DEFAULT NULL,

PRIMARY KEY (`id`),

UNIQUE KEY `name` (`name`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8;