

PHASE 2: SUBMISSION CHECKLIST/SIGNOFF SHEET

GROUP#: 1 **GROUP NAME:** YOUTHPROGRAM database

Deliverables:

- [Revised] Description of the organization
- [Revised] ER diagram with min/max specifications
- [Revised] Constraints not in ER diagram
- [Revised] Relational Schema with Referential Integrity
- Queries with brief description
- DML + DDL + SQL statements
- Completed PostgreSQL Implementation (Attached Team SQL script)

Group Assessment

- Group Status Report

We have each reviewed the contents of this deliverable.

Phase Leader	Kadin Suga	_____
Phase Recorder	Max Simmer	_____
Phase Checker	David Sheleru	_____
Technical Advisor	Taylor Fischer	_____
Technical Advisor	Rachel Gordon	_____

1. Introduction

The Centers for Social and Educational Development (CSED), a Midwest-based nonprofit, seeks to inspire people of all ages to reach their full potential through professional, leadership, cultural, and faith-based educational programs. As part of its mission, CSED supports a network of centers that offer youth programming, including series of ongoing classes as well as special events including workshops, service opportunities, and retreats. Mary Morgan, a staff member at CSED and expert user, has generously agreed to serve as a contact person and to provide input on the proposed database.

2. Description of the Organization

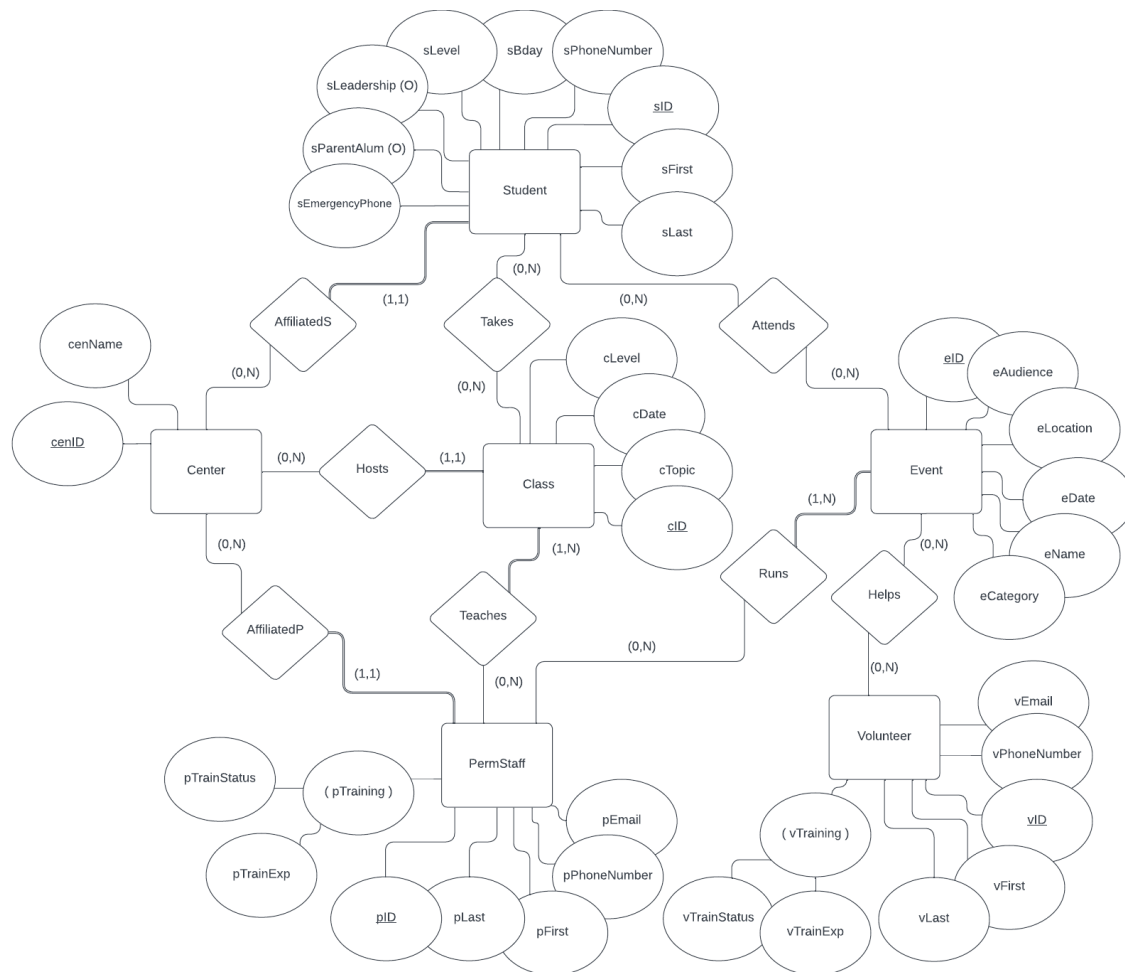
The Youth Program Database (YOUTHPROGRAM) stores information about the youth programs offered through CSED and participation at such events. The YOUTHPROGRAM Database contains data regarding the student attendees and their participation, the classes and events offered, and the staff and volunteers assisting with the various programs:

- Students that come to youth programs are included in the database. Each student has their student ID, first name, last name, phone number, birthday, email, and an emergency contact phone number stored in the database. Additional categories include a student's level in school (e.g. high school or college), whether a student is involved in a leadership group, and whether a student's parent(s) is an alum of CSED programs. Each student is mainly affiliated with one center, but a center can be affiliated with many students.
- Centers are physical branch locations within the CSED network that serve as hubs for classes. Each center has a name and a unique ID. Each center can host many different series of class sessions.
- A class session can only be hosted by one center. Each class session has an ID, a series level indicating the intended student audience, the date the session was held, and the topic presented. There is no maximum class size, and students can take multiple sessions (of the same series). Each session is taught by one or more staff members.
- Events are organized for students to attend, in categories such as workshops, service opportunities, and retreats. Each event is recorded with an event ID, name, date, location, event category, and intended student audience. Students can attend multiple special events, and there is not a set attendance capacity. Events are run by one or more permanent staff, often with the help of volunteers.

- Permanent staff can teach multiple class sessions or run multiple events. Each staff member is affiliated with one center, with no limit to the number of staff per center. Each permanent staff member is recorded with a unique ID, first name, last name, email, and phone number. Staff members must maintain satisfactory training, so training status and the date of training expiration are also recorded.
- Volunteers can help with special events. Each volunteer is recorded with an ID, first name, last name, email, and phone number. The training status and the next training expiration date are also recorded for volunteers.

3. ER Diagram

The figure below shows the ER diagram of the Youth Program Database (YOUTHPROGRAM).



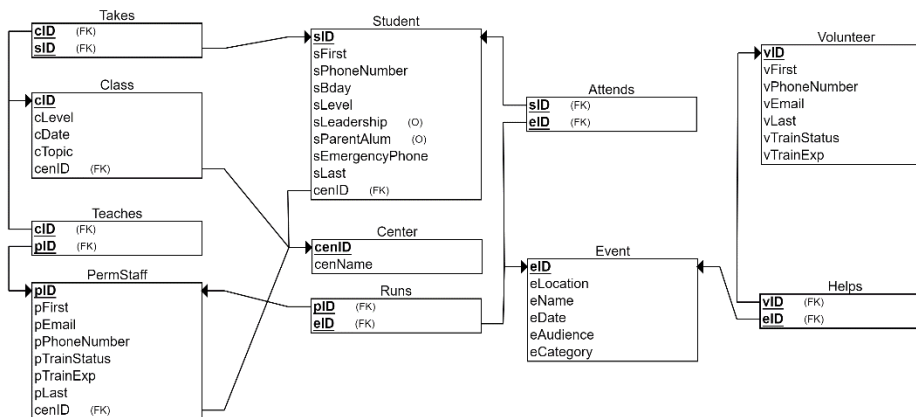
4. ER Diagram Uncaptured Constraints

The following is a list of constraints that are not captured by the ER diagram of YOUTHPROGRAM:

- Each event must have at least 2 adults running/present at the event. The minimum can be met with 2 permanent staff, or 1 permanent staff member and 1 volunteer.
- Students should only attend class sessions that match their student level.
- Student level in school (sLevel) can be either ms (middle school), hs (high school), co (college), or (other)
- Training status of permanent staff (pTrainStatus) and volunteers (vTrainStatus) can either be not started, initiated, good, flag, or failed.
- Event categories (eCategory) can be either workshop, service, retreat, or other.

5. Relational Schema

This section provides the relational schema with referential integrity and the relational table details.



5.1 Relational Schema with Referential Integrity

Student(sID, sFirst, sLast, sPhoneNumber, sBday, sLevel, sLeadership, sParentAlum, sEmergencyPhone, cenID)

foreign key (cenID) references Center (cenID)

Attends(sID, eID)

foreign key (sID) references Student (sID)

foreign key (eID) references Event (eID)

Class(cID, cLevel, cDate, cTopic, cenID)

foreign key (cenID) references Center(cenID)

Takes(cID, sID)

foreign key (cID) references Class(cID)

foreign key (sID) references Student(sID)

Teaches(cID, pID)

foreign key (cID) references Class(cID)

foreign key (pID) references PermStaff(pID)

Volunteer (vID, vFirst, vPhoneNumber, vEmail, vLast, vTrainStatus, vTrainExp)

Helps (vID, eID)

foreign key (vID) references Volunteer(vID)

foreign key (eID) references Event(eID)

Center(cenID, cenName)

Event (eID, eLocation, eName, eDate, eAudience, sCategory)

PermStaff(pID, pFirst, pEmail, pPhoneNumber, pTrainStatus, pTrainExp, pLast, cenID)

foreign key (cenID) references Center(cenID)

Runs(pID, eID)

foreign key (pID) references PermStaff(pID)

foreign key (eID) references Event(eID)

5.2 Relational Table Details

The relational schema given in Section 5.1 was mapped into the following tables in the YOUTHPROGRAM database. Primary keys have been underlined. Tables that have multiple attributes underlined represent composite keys.

Table Name	Attribute	Description
student	<u>sID</u>	Unique ID for identifying students
	sFirst	Student first name
	sLast	Student last name
	sBday	Student birth date
	sPhoneNumber	Student phone number
	sLevel	Student's level in school (ms, hs, col, grad, other)
	sLeadership	Whether or not a student is involved in a leadership group
	sParentAlum	Whether or not a student has a parent that is an alum of the organization
	sEmergencyPhone	Emergency phone number for contacting a student's guardian
	cenID	Name of center student is affiliated with. Foreign key (cenID) references Center (cenID)
permStaff	<u>pID</u>	Unique ID for identifying permanent staff members
	pFirst	Permanent staff member first name
	pLast	Permanent staff member last name
	pEmail	Permanent staff member email address
	pPhoneNumber	Permanent staff member phone number
	pTrainStatus	Training status of permanent staff member (not started, initiated, good, flag, failed)
	pTrainExp	Date when permanent staff member's training expires
	cenID	Name of center staff member is primarily affiliated with. Foreign key (cenID) references Center (cenID)
class	<u>cID</u>	Unique ID for identifying a class session
	cLevel	Class series name indicating the intended student level for the class

	cDate	Dates the class is offered
	cTopic	Topic covered in the class
	cenID	Name of center that hosts the class. Foreign key (cenID) references Center (cenID)
event	<u>eID</u>	Unique ID for identifying one-time special event
	eName	Name of one-time special event
	eDate	Date event was held
	eAudience	Intended student audience for the event
	eLocation	Location where the event was held
	eCategory	Category the event falls under (workshop, service, retreat, other)
volunteer	<u>vID</u>	Unique ID for identifying volunteers
	vFirst	Volunteer first name
	vLast	Volunteer last name
	vEmail	Volunteer email address
	vPhoneNumber	Volunteer phone number
	vTrainStatus	Training status of volunteer (not started, initiated, good, flag, failed)
	vTrainExp	Date when volunteer's training expires
center	<u>cenID</u>	Unique ID for each individual branch location.
	cenName	Name of physical branch location where classes and some events are held and with which students and staff are affiliated
attends	<u>sID</u>	Unique ID for identifying students. Foreign key (<u>sID</u>) references Student(<u>sID</u>)
	<u>eID</u>	Unique ID for identifying one-time special event. Foreign key (eID) references Event(eID)
takes	<u>cID</u>	Unique ID for identifying a class. Foreign key (cID) references Class (cID)
	<u>sID</u>	Unique ID for identifying students. Foreign key (sID) references Student (sID)
teaches	<u>cID</u>	Unique ID for a class session. Foreign key (cID) references Class (cID)
	<u>pID</u>	Unique ID for permanent staff member teaching the course. Foreign key (pID) references PermStaff (pID)
runs	<u>pID</u>	Unique ID for permanent staff member running the event. Foreign key (pID) references PermStaff (pID)
	<u>eID</u>	Unique ID for identifying one-time special event. Foreign key (eID) references Event (eID)
helps	<u>vID</u>	Unique ID for identifying volunteers. Foreign key (vID) references Volunteer (vID)
	<u>eID</u>	Unique ID for identifying one-time special event. Foreign key (eID) references Event (eID)

6. Queries

The following table summarizes the queries in the EMPTRAINING Database.

Query Name	Description	Output	Relations Accessed
Lowest Student attendance with event attendance	Lowest Student attendance where a student attends 1 class and attends an event. Listing the number of the students attending 1 class and the number of events attended where First name is in a increasing order.	firstname, lastname, classattend, eventattend	Student, Event, Class, Attends, Takes
leadershipGroupClassAttendance	For each center at each class level, print the number of distinct students attending classes and the number of those students who are part of the leadership group. Include the center name and class level. Order by center name and then class level.	cenName, cLevel, totalStudentCount, leadershipStudentCount	center, student, takes, class
numberOfEvents	Find each student that attends more than one event and list the specific events they attend. Include student first and last name as well as their student ID. Order by numberOfEvents > 1 in descending order.	sID, sFirst, sLast, numberOfEvents, attendedEvents	student, event, attends
VolunteerHelp	For each Event. List the Volunteer's ID, Volunteer's name, Training status of the volunteer, phone number of volunteer. Only print out the results if the Volunteer assigned to the event has participated in less than 2 events. Order by	VID VFirst VTrainStatus VPhoneNumb Count of event	Helps Volunteer Event

	Volunteer's name ascending		
AvgStudentsClassLevel	Find the average number of students attending classes grouped by class level and center and ordered by center name	CenID CLevel Avg_students_per_class	Student Takes Class Center

7. DDL + DML + SQL (Including output screenshots)

The following is an SQL definition of the tables for the EMPTRAINING Database.

DDL:

```
CREATE TABLE Center
(
    cenName VARCHAR NOT NULL,
    cenID VARCHAR(2) NOT NULL,
    PRIMARY KEY (cenID)
);

CREATE TABLE Student
(
    sID VARCHAR PRIMARY KEY,
    sFirst VARCHAR NOT NULL,
    sLast VARCHAR NOT NULL,
    sPhoneNumber VARCHAR(12) NOT NULL,
    sBday DATE NOT NULL,
    sLevel VARCHAR NOT NULL
    check (sLevel in ('co', 'hs', 'ms', 'ot')),
    sLeadership VARCHAR,
    sParentAlum VARCHAR,
    sEmergencyPhone VARCHAR NOT NULL,
    cenID VARCHAR(2) NOT NULL,
    FOREIGN KEY (cenID) REFERENCES Center(cenID)
);

create table Class(
cID VARCHAR,
cLevel VARCHAR(2) NOT NULL,
cDate DATE NOT NULL,
cTopic VARCHAR NOT NULL,
cenID varchar(2) NOT NULL,
PRIMARY KEY (cID),
FOREIGN KEY (cenID) REFERENCES center(cenID));

CREATE TABLE PermStaff
(
    pID VARCHAR NOT NULL,
    pFirst VARCHAR NOT NULL,
    pLast VARCHAR NOT NULL,
    pEmail VARCHAR NOT NULL,
    pPhoneNumber VARCHAR(12) NOT NULL,
    pTrainStatus VARCHAR NOT NULL
    check (pTrainStatus in ('not started', 'initiated', 'good', 'flag', 'failed')),
    pTrainExp DATE,
    cenID VARCHAR(2) NOT NULL,
    PRIMARY KEY (pID),
    FOREIGN KEY (cenID) REFERENCES Center(cenID)
);

CREATE TABLE Volunteer
(
    vID VARCHAR NOT NULL,
    vFirst VARCHAR NOT NULL,
    vLast VARCHAR NOT NULL,
    vPhoneNumber VARCHAR(12) NOT NULL,
    vEmail VARCHAR NOT NULL,
    vTrainStatus VARCHAR
    check (vTrainStatus in ('not started', 'initiated', 'good', 'flag', 'failed')),
```

```

vTrainExp DATE,
PRIMARY KEY (vID)
);

CREATE TABLE Event
(
eID VARCHAR NOT NULL,
eLocation VARCHAR NOT NULL,
eName VARCHAR NOT NULL,
eDate DATE NOT NULL,
eAudience CHAR(2) NOT NULL,
eCategory VARCHAR NOT NULL
check (eCategory in ('workshop', 'service', 'retreat', 'other')),
PRIMARY KEY (eID)
);

CREATE TABLE Takes
(
cID VARCHAR NOT NULL,
sID VARCHAR NOT NULL,
PRIMARY KEY (cID, sID),
FOREIGN KEY (cID) REFERENCES Class(cID),
FOREIGN KEY (sID) REFERENCES Student(sID)
);

CREATE TABLE Teaches(
cID VARCHAR(10) NOT NULL,
pID VARCHAR NOT NULL,
PRIMARY KEY(cID, pID),
FOREIGN KEY (cID) REFERENCES Class (cID),
FOREIGN KEY (pID) REFERENCES PermStaff (pID)
);

create table runs
(pID varchar,
eID varchar,
Primary key(pID,eID),
Foreign key (pID) references PermStaff(pID),
Foreign key (eID) references Event(eID)
);

CREATE TABLE attends (
sID VARCHAR NOT NULL,
eID VARCHAR NOT NULL,
PRIMARY KEY (sID, eID),
FOREIGN KEY (sID) REFERENCES student(sID),
FOREIGN KEY (eID) REFERENCES event(eID)
);

CREATE TABLE HELPS (vID VARCHAR Not Null, eID VARCHAR Not Null,
Primary Key(vID,eID),
Foreign Key(vID) References Volunteer(vID),
Foreign Key(eID) References Event(eID));

```

DDL:

```

INSERT INTO Center (cenID, cenName)
VALUES
('EL', 'Elms'),
('FG', 'Forest Glen'),
('GR', 'Grove'),
('LD', 'Lindell'),
('PW', 'Petawa'),

```

('SB', 'Shellbourne'),
 ('SL', 'Sherlake'),
 ('SH', 'Southold');

INSERT INTO Student (sID,sFirst,sLast,sPhoneNumber,sBday,sLevel,sLeadership,sParentAlum,sEmergencyPhone,cenID)
 VALUES

('LeKoch','Leah','Koch','331-336-8319',to_date('01/05/05', 'MM/DD/YY'),'co','yes',NULL,'738-495-2160','EL'),
 ('SaJohnson','Sarah','Johnson','847-874-3158',to_date('03/26/01', 'MM/DD/YY'),'co',NULL,NULL,'624-809-7315','EL'),
 ('RyWilliams','Ryan','Williams','331-924-7168',to_date('09/15/01', 'MM/DD/YY'),'co',NULL,'yes','583-672-9140','EL'),
 ('EmDavis','Emily','Davis','312-565-0293',to_date('06/02/02', 'MM/DD/YY'),'co','yes','yes','459-218-6370','EL'),
 ('DaMartinez','Daniel','Martinez','618-947-1162',to_date('07/14/03', 'MM/DD/YY'),'co',NULL,NULL,'726-493-5180','EL'),
 ('OlSmith','Olivia','Smith','708-479-2157',to_date('12/13/01', 'MM/DD/YY'),'co','yes',NULL,'362-840-1597','EL'),
 ('MaTaylor','Matthew','Taylor','773-466-6844',to_date('08/24/01', 'MM/DD/YY'),'co','yes','yes','950-286-4713','EL'),
 ('AvBrown','Ava','Brown','847-647-9798',to_date('10/05/04', 'MM/DD/YY'),'co','yes',NULL,'817-496-3250','EL'),
 ('AlLee','Alexander','Lee','331-805-3950',to_date('11/29/02', 'MM/DD/YY'),'co',NULL,NULL,'204-736-9815','EL'),
 ('ChAnderson','Chloe','Anderson','312-384-6007',to_date('01/12/05', 'MM/DD/YY'),'hs',NULL,NULL,'675-892-3140','GR'),
 ('BeWilson','Ben','Wilson','847-256-5819',to_date('02/05/06', 'MM/DD/YY'),'hs','yes',NULL,'384-762-9150','GR'),
 ('MiClark','Mia','Clark','618-184-7893',to_date('03/20/05', 'MM/DD/YY'),'hs','yes','yes','123-450-8976','GR'),
 ('SaWhite','Samuel','White','331-798-6579',to_date('04/08/05', 'MM/DD/YY'),'hs','yes','yes','892-731-6450','GR'),
 ('ChHall','Charlotte','Hall','618-670-1205',to_date('05/16/06', 'MM/DD/YY'),'hs',NULL,'yes','657-234-1890','GR'),
 ('AmRodriguez','Amelia','Rodriguez','224-889-4751',to_date('06/25/06', 'MM/DD/YY'),'hs','yes',NULL,'941-582-7306','GR'),
 ('HeAdams','Henry','Adams','312-431-9277',to_date('07/09/05', 'MM/DD/YY'),'hs','yes',NULL,'392-687-4150','GR'),
 ('NoMitchell','Noah','Mitchell','630-675-4148',to_date('08/14/08', 'MM/DD/YY'),'hs',NULL,NULL,'546-123-7890','GR'),
 ('LiGreen','Lily','Green','630-675-4148',to_date('09/02/06', 'MM/DD/YY'),'hs',NULL,NULL,'289-456-1073','GR'),
 ('JaMoore','James','Moore','773-971-9466',to_date('10/18/06', 'MM/DD/YY'),'hs',NULL,NULL,'810-946-2357','GR'),
 ('SoParker','Sofia','Parker','224-416-4139',to_date('11/27/05', 'MM/DD/YY'),'hs','yes','yes','631-487-5290','GR'),
 ('LiWilson','Liam','Wilson','847-795-4328',to_date('08/15/09', 'MM/DD/YY'),'ms',NULL,NULL,'407-895-3621','GR'),
 ('WiHarris','William','Harris','708-778-0943',to_date('11/03/09', 'MM/DD/YY'),'ms','yes',NULL,'263-750-8149','GR'),
 ('IsRodriguez','Isabella','Rodriguez','618-215-1850',to_date('03/22/10', 'MM/DD/YY'),'ms','yes','yes','859-234-1760','GR'),
 ('JaThomas','Jackson','Thomas','630-914-3122',to_date('07/09/11', 'MM/DD/YY'),'ms','yes',NULL,'512-406-7983','GR'),
 ('MiSmith','Michael','Smith','312-385-6097',to_date('10/12/10', 'MM/DD/YY'),'ms',NULL,NULL,'746-931-5208','GR'),
 ('OlBrown','Olivia','Brown','485-726-9134',to_date('01/05/09', 'MM/DD/YY'),'ms',NULL,'yes','372-916-5840','GR'),
 ('WiTaylor','William','Taylor','629-384-7150',to_date('05/18/10', 'MM/DD/YY'),'ms',NULL,NULL,'981-734-6025','GR'),
 ('AvAnderson','Ava','Anderson','314-902-8765',to_date('09/30/10', 'MM/DD/YY'),'ms','yes',NULL,'451-820-3796','GR'),
 ('BeLee','Benjamin','Lee','572-913-4680',to_date('12/08/09', 'MM/DD/YY'),'ms',NULL,NULL,'617-482-3905','GR'),
 ('ZoCooper','Zoe','Cooper','718-649-2053',to_date('06/08/08', 'MM/DD/YY'),'hs','yes','yes','586-042-3179','PW'),
 ('LoWard','Logan','Ward','109-785-4326',to_date('08/24/05', 'MM/DD/YY'),'hs','yes',NULL,'295-607-3841','PW'),
 ('ViMurphy','Victoria','Murphy','587-364-1029',to_date('03/17/08', 'MM/DD/YY'),'hs','yes',NULL,'730-149-8256','PW'),
 ('JaStewart','Jackson','Stewart','236-458-9701',to_date('10/29/06', 'MM/DD/YY'),'hs',NULL,NULL,'165-429-7380','PW'),
 ('EmRivera','Emma','Rivera','890-612-3475',to_date('01/14/08', 'MM/DD/YY'),'hs',NULL,NULL,'493-176-2805','PW'),
 ('DaCarter','Daniel','Carter','456-210-7893',to_date('07/05/07', 'MM/DD/YY'),'hs','yes','yes','714-085-2369','PW'),
 ('AdReed','Addison','Reed','721-098-4365',to_date('12/25/05', 'MM/DD/YY'),'hs',NULL,NULL,'369-814-5270','PW'),
 ('AnRoss','Andrew','Ross','304-917-5826',to_date('05/02/06', 'MM/DD/YY'),'hs','yes',NULL,'872-301-4965','PW'),
 ('ElYoung','Ella','Young','638-574-2901',to_date('02/09/06', 'MM/DD/YY'),'hs','yes',NULL,'504-972-6183','PW'),
 ('CaMitchell','Caleb','Mitchell','549-302-6871',to_date('11/12/07', 'MM/DD/YY'),'hs',NULL,'yes','610-934-8275','PW'),
 ('LiWood','Lily','Wood','765-219-8340',to_date('09/22/08', 'MM/DD/YY'),'hs',NULL,NULL,'283-650-1794','PW'),
 ('LiScott','Liam','Scott','823-705-6491',to_date('04/18/05', 'MM/DD/YY'),'hs',NULL,NULL,'971-245-8063','PW'),
 ('AbMorris','Abigail','Morris','193-284-5067',to_date('06/29/06', 'MM/DD/YY'),'hs','yes',NULL,'376-289-5401','SB'),
 ('ZaParker','Zach','Parker','408-576-3921',to_date('08/14/07', 'MM/DD/YY'),'hs','yes','yes','219-674-8503','SB'),
 ('ErHayes','Ericka','Hayes','796-125-8340',to_date('03/07/07', 'MM/DD/YY'),'hs',NULL,NULL,'465-312-7890','SB'),
 ('EmSullivan','Emily','Sullivan','678-149-2053',to_date('10/08/05', 'MM/DD/YY'),'hs','yes','yes','850-129-3467','SB'),
 ('SoThompson','Sophia','Thompson','295-748-6130',to_date('01/21/09', 'MM/DD/YY'),'hs',NULL,NULL,'792-438-5016','SB'),
 ('JaMorris','Jackson','Morris','437-289-6105',to_date('07/19/06', 'MM/DD/YY'),'hs',NULL,'yes','136-724-5980','SB'),
 ('MiStewart','Mia','Stewart','180-725-9364',to_date('12/11/05', 'MM/DD/YY'),'hs','yes',NULL,'408-917-6253','SB'),
 ('MaHernandez','Marie','Hernandez','610-245-7983',to_date('05/26/07', 'MM/DD/YY'),'hs','yes',NULL,'567-812-4309','SB'),
 ('OwCarter','Owen','Carter','954-682-3017',to_date('02/15/06', 'MM/DD/YY'),'hs',NULL,'yes','305-246-9817','SB'),
 ('JoPeterson','Joseph','Peterson','276-804-9135',to_date('11/10/09', 'MM/DD/YY'),'hs','yes',NULL,'924-871-3560','SB'),
 ('NiJohnson','Nicholas','Johnson','542-970-1863',to_date('09/05/08', 'MM/DD/YY'),'hs',NULL,'yes','738-019-4652','SB'),
 ('LuWilson','Luke','Wilson','832-167-4950',to_date('04/10/07', 'MM/DD/YY'),'hs',NULL,NULL,'632-184-7905','SB'),
 ('BrMitchell','Brayden','Mitchell','691-237-8045',to_date('02/14/09', 'MM/DD/YY'),'ms',NULL,NULL,'514-627-8309','SL'),
 ('NoClark','Nora','Clark','174-609-2385',to_date('06/04/10', 'MM/DD/YY'),'ms','yes','yes','697-230-4851','SL'),
 ('JaLee','Jaxon','Lee','365-892-4701',to_date('08/27/09', 'MM/DD/YY'),'ms','yes','yes','890-245-3617','SL'),

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(LiNyugen','Lisa','Nyugen','972-830-1456',to_date('11/11/10','MM/DD/YY'),'ms',NULL,NULL,'345-769-1820','SL'),
(DaMontgomery','David','Montgomery','536-478-9120',to_date('04/07/09','MM/DD/YY'),'ms','yes',NULL,'271-398-4605','SL'),
(StHoffman','Stephanie','Hoffman','890-372-5146',to_date('07/20/11','MM/DD/YY'),'ms',NULL,'yes','506-738-1294','SL'),
(StGuzman','Steven','Guzman','140-785-9623',to_date('09/02/09','MM/DD/YY'),'ms','yes',NULL,'928-453-1760','SL'),
(BrRodgers','Brett','Rodgers','862-195-3470',to_date('12/31/10','MM/DD/YY'),'ms','yes',NULL,'763-491-8250','SL'),
(LoShaw','Lorena','Shaw','429-083-6715',to_date('03/01/09','MM/DD/YY'),'ms',NULL,NULL,'123-590-4678','SL'),
(SaGardner','Sara','Gardner','713-690-2458',to_date('05/12/10','MM/DD/YY'),'ms',NULL,NULL,'419-587-2360','SL'),
(LoCunningham','Louise','Cunningham','807-912-3465',to_date('06/27/06','MM/DD/YY'),'hs',NULL,'yes','874-062-9315','SL'),
(AnEllis','Andrew','Ellis','346-981-2570',to_date('08/09/08','MM/DD/YY'),'hs','yes',NULL,'965-432-0781','SL'),
(CiHammond','Clara','Hammond','215-876-3490',to_date('03/27/08','MM/DD/YY'),'hs','yes',NULL,'346-281-0975','SL'),
(TaOsborne','Tanya','Osborne','574-308-1629',to_date('10/04/07','MM/DD/YY'),'hs',NULL,NULL,'283-961-4750','SL'),
(JoHopkins','Joey','Hopkins','968-145-7320',to_date('01/30/06','MM/DD/YY'),'hs',NULL,NULL,'507-984-2163','SL'),
(EoSchneider','Emma','Schneider','341-205-7968',to_date('07/08/08','MM/DD/YY'),'hs','yes','yes','619-827-5304','SL'),
(ArJensen','Arthur','Jensen','528-467-9130',to_date('12/15/05','MM/DD/YY'),'hs',NULL,NULL,'652-140-3897','SL'),
(CaFlores','Carroll','Flores','629-781-0435',to_date('05/15/06','MM/DD/YY'),'hs','yes',NULL,'430-789-2165','SL'),
(CeCollier','Cecil','Collier','195-634-8720',to_date('02/23/07','MM/DD/YY'),'hs','yes',NULL,'728-391-0546','SL'),
(LeMorris','Leslie','Morris','478-921-6053',to_date('11/21/06','MM/DD/YY'),'hs','yes','yes','296-741-5380','SL'),
(JoJohnson','John','Johnson','573-629-1480',to_date('09/13/08','MM/DD/YY'),'hs',NULL,'yes','981-276-4305','SL'),
(PaWhite','Paul','White','204-789-6135',to_date('04/25/05','MM/DD/YY'),'hs',NULL,NULL,'543-219-6780','SL'),
(YeYates','Lela','Yates','436-982-5701',to_date('06/02/07','MM/DD/YY'),'hs','yes',NULL,'205-964-1873','SL'),
(NoWarner','Noah','Warner','681-093-2475',to_date('08/31/06','MM/DD/YY'),'hs','yes',NULL,'486-321-0957','SH'),
(LeRuiz','Lena','Ruiz','903-817-6425',to_date('03/04/08','MM/DD/YY'),'hs',NULL,NULL,'317-289-5046','SH'),
(FaCasey','Faith','Casey','372-546-8019',to_date('10/01/07','MM/DD/YY'),'hs',NULL,NULL,'950-428-3671','SH'),
(MaHudson','Maria','Hudson','615-794-0283',to_date('11/10/03','MM/DD/YY'),'co','yes','yes','760-348-1295','SH'),
(JaStevenson','Jake','Stevenson','287-415-0936',to_date('04/02/05','MM/DD/YY'),'co','yes',NULL,'621-594-0837','SH'),
(CaBlake','Carter','Blake','549-861-2730',to_date('09/14/01','MM/DD/YY'),'co',NULL,NULL,'397-186-2450','SH'),
(MaRoberts','Maria','Roberts','209-781-3645',to_date('02/08/04','MM/DD/YY'),'co',NULL,NULL,'185-762-3490','SH'),
(LaMartinez','Marta','Martinez','836-241-9705',to_date('05/20/03','MM/DD/YY'),'co',NULL,NULL,'349-275-6108','SH'),
(OIBurns','Olivia','Burns','794-083-1625',to_date('08/17/05','MM/DD/YY'),'co',NULL,'yes','702-918-4356','SH'),
(CaGrant','Casey','Grant','523-746-8901',to_date('12/31/02','MM/DD/YY'),'co','yes','yes','518-439-2760','SH'),
(KaFleming','Karla','Fleming','461-208-9375',to_date('07/05/04','MM/DD/YY'),'co','yes','yes','864-207-9315','SH'),
(RoHunter','Rosalie','Hunter','972-431-6085',to_date('03/25/01','MM/DD/YY'),'co',NULL,NULL,'294-158-7603','SH'),
(HaMcguire','Harper','Mcguire','134-205-7896',to_date('10/13/03','MM/DD/YY'),'co','yes',NULL,'637-819-2045','SH'),
(LoMiller','Logan','Miller','795-843-2610',to_date('01/03/05','MM/DD/YY'),'co','yes',NULL,'970-582-3164','SH'),
(LuGomez','Lucia','Gomez','680-324-7915',to_date('06/09/02','MM/DD/YY'),'co','yes','yes','541-283-0976','SH'),
(KeFisher','Kendra','Fisher','215-479-3608',to_date('11/18/04','MM/DD/YY'),'co',NULL,NULL,'326-845-7190','SH'),
(MaBecker','Mary','Becker','769-804-2315',to_date('04/14/01','MM/DD/YY'),'co',NULL,NULL,'187-420-9365','SH'),
(SoMorgan','Sofia','Morgan','301-874-5926',to_date('09/28/03','MM/DD/YY'),'co',NULL,NULL,'913-684-2705','SH');
```

```
INSERT INTO Class (cID, cLevel, cDate, cTopic, cenID)
VALUES
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(ELco101122', 'co', to_date('10/11/22', 'MM/DD/YY'), 'Cheerfulness', 'EL'),
(ELco110822', 'co', to_date('11/08/22', 'MM/DD/YY'), 'Working Well', 'EL'),
(ELco121322', 'co', to_date('12/13/22', 'MM/DD/YY'), 'Friendship', 'EL'),
(ELco011023', 'co', to_date('01/10/23', 'MM/DD/YY'), 'Fortitude', 'EL'),
(ELco021423', 'co', to_date('02/14/23', 'MM/DD/YY'), 'Justice', 'EL'),
(ELco031423', 'co', to_date('03/14/23', 'MM/DD/YY'), 'Temperance', 'EL'),
(ELco041123', 'co', to_date('04/11/23', 'MM/DD/YY'), 'Prudence', 'EL'),
(ELco050923', 'co', to_date('05/09/23', 'MM/DD/YY'), 'Leadership', 'EL'),
(GRhs091522', 'hs', to_date('09/15/22', 'MM/DD/YY'), 'Friendship', 'GR'),
(GRhs100622', 'hs', to_date('10/06/22', 'MM/DD/YY'), 'Courage', 'GR'),
(GRhs102022', 'hs', to_date('10/20/22', 'MM/DD/YY'), 'Study', 'GR'),
(GRhs110322', 'hs', to_date('11/03/22', 'MM/DD/YY'), 'Cheerfulness', 'GR'),
(GRhs111722', 'hs', to_date('11/17/22', 'MM/DD/YY'), 'Honesty', 'GR'),
(GRhs120122', 'hs', to_date('12/01/22', 'MM/DD/YY'), 'Leadership', 'GR'),
(GRhs011923', 'hs', to_date('01/19/23', 'MM/DD/YY'), 'Service', 'GR'),
(GRhs020223', 'hs', to_date('02/02/23', 'MM/DD/YY'), 'Prudence', 'GR'),
(GRhs021623', 'hs', to_date('02/16/23', 'MM/DD/YY'), 'Justice', 'GR'),
(GRhs030223', 'hs', to_date('03/02/23', 'MM/DD/YY'), 'Temperance', 'GR'),
(GRhs031623', 'hs', to_date('03/16/23', 'MM/DD/YY'), 'Fortitude', 'GR'),
(GRhs040623', 'hs', to_date('04/06/23', 'MM/DD/YY'), 'Respect', 'GR'),
(GRhs042023', 'hs', to_date('04/20/23', 'MM/DD/YY'), 'Motivation', 'GR');
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('GRhs050423', 'hs', to_date('05/04/23', 'MM/DD/YY'), 'Prayer', 'GR'),
 ('GRms091922', 'ms', to_date('09/19/22', 'MM/DD/YY'), 'Goal Setting', 'GR'),
 ('GRms101722', 'ms', to_date('10/17/22', 'MM/DD/YY'), 'Friendship', 'GR'),
 ('GRms112122', 'ms', to_date('11/21/22', 'MM/DD/YY'), 'Courage', 'GR'),
 ('GRms121922', 'ms', to_date('12/19/22', 'MM/DD/YY'), 'Study', 'GR'),
 ('GRms011623', 'ms', to_date('01/16/23', 'MM/DD/YY'), 'Cheerfulness', 'GR'),
 ('GRms022023', 'ms', to_date('02/20/23', 'MM/DD/YY'), 'Honesty', 'GR'),
 ('GRms032023', 'ms', to_date('03/20/23', 'MM/DD/YY'), 'Service', 'GR'),
 ('GRms041023', 'ms', to_date('04/10/23', 'MM/DD/YY'), 'Gratitude', 'GR'),
 ('PWhs091522', 'hs', to_date('09/15/22', 'MM/DD/YY'), 'Friendship', 'PW'),
 ('PWhs100622', 'hs', to_date('10/06/22', 'MM/DD/YY'), 'Courage', 'PW'),
 ('PWhs102722', 'hs', to_date('10/27/22', 'MM/DD/YY'), 'Study', 'PW'),
 ('PWhs110322', 'hs', to_date('11/03/22', 'MM/DD/YY'), 'Cheerfulness', 'PW'),
 ('PWhs111722', 'hs', to_date('11/17/22', 'MM/DD/YY'), 'Honesty', 'PW'),
 ('PWhs120122', 'hs', to_date('12/01/22', 'MM/DD/YY'), 'Leadership', 'PW'),
 ('PWhs011923', 'hs', to_date('01/19/23', 'MM/DD/YY'), 'Service', 'PW'),
 ('PWhs020223', 'hs', to_date('02/02/23', 'MM/DD/YY'), 'Prudence', 'PW'),
 ('PWhs021623', 'hs', to_date('02/16/23', 'MM/DD/YY'), 'Justice', 'PW'),
 ('PWhs030223', 'hs', to_date('03/02/23', 'MM/DD/YY'), 'Temperance', 'PW'),
 ('PWhs031623', 'hs', to_date('03/16/23', 'MM/DD/YY'), 'Fortitude', 'PW'),
 ('PWhs040623', 'hs', to_date('04/06/23', 'MM/DD/YY'), 'Respect', 'PW'),
 ('PWhs042023', 'hs', to_date('04/20/23', 'MM/DD/YY'), 'Motivation', 'PW'),
 ('PWhs050423', 'hs', to_date('05/04/23', 'MM/DD/YY'), 'Prayer', 'PW'),
 ('PWhs051823', 'hs', to_date('05/18/23', 'MM/DD/YY'), 'Gratitude', 'PW'),
 ('SBhs093022', 'hs', to_date('09/30/22', 'MM/DD/YY'), 'Friendship', 'SB'),
 ('SBhs102822', 'hs', to_date('10/28/22', 'MM/DD/YY'), 'Courage', 'SB'),
 ('SBhs111822', 'hs', to_date('11/18/22', 'MM/DD/YY'), 'Study', 'SB'),
 ('SBhs121622', 'hs', to_date('12/16/22', 'MM/DD/YY'), 'Cheerfulness', 'SB'),
 ('SBhs012723', 'hs', to_date('01/27/23', 'MM/DD/YY'), 'Leadership', 'SB'),
 ('SBhs022423', 'hs', to_date('02/24/23', 'MM/DD/YY'), 'Service', 'SB'),
 ('SBhs033123', 'hs', to_date('03/31/23', 'MM/DD/YY'), 'Respect', 'SB'),
 ('SBhs042823', 'hs', to_date('04/28/23', 'MM/DD/YY'), 'Motivation', 'SB'),
 ('SBhs052623', 'hs', to_date('05/26/23', 'MM/DD/YY'), 'Gratitude', 'SB'),
 ('SLhs101222', 'hs', to_date('10/12/22', 'MM/DD/YY'), 'Friendship', 'SL'),
 ('SLhs102622', 'hs', to_date('10/26/22', 'MM/DD/YY'), 'Study', 'SL'),
 ('SLhs110922', 'hs', to_date('11/09/22', 'MM/DD/YY'), 'Cheerfulness', 'SL'),
 ('SLhs112322', 'hs', to_date('11/23/22', 'MM/DD/YY'), 'Gratitude', 'SL'),
 ('SLhs121422', 'hs', to_date('12/14/22', 'MM/DD/YY'), 'Courage', 'SL'),
 ('SLhs011123', 'hs', to_date('01/11/23', 'MM/DD/YY'), 'Prudence', 'SL'),
 ('SLhs012523', 'hs', to_date('01/25/23', 'MM/DD/YY'), 'Justice', 'SL'),
 ('SLhs020823', 'hs', to_date('02/08/23', 'MM/DD/YY'), 'Temperance', 'SL'),
 ('SLhs022223', 'hs', to_date('02/22/23', 'MM/DD/YY'), 'Fortitude', 'SL'),
 ('SLhs030823', 'hs', to_date('03/08/23', 'MM/DD/YY'), 'Respect', 'SL'),
 ('SLhs032223', 'hs', to_date('03/22/23', 'MM/DD/YY'), 'Leadership', 'SL'),
 ('SLhs041223', 'hs', to_date('04/12/23', 'MM/DD/YY'), 'Service', 'SL'),
 ('SLhs041923', 'hs', to_date('04/19/23', 'MM/DD/YY'), 'Prayer', 'SL'),
 ('SLms092622', 'ms', to_date('09/26/22', 'MM/DD/YY'), 'Goal Setting', 'SL'),
 ('SLms102422', 'ms', to_date('10/24/22', 'MM/DD/YY'), 'Study', 'SL'),
 ('SLms112822', 'ms', to_date('11/28/22', 'MM/DD/YY'), 'Friendship', 'SL'),
 ('SLms121922', 'ms', to_date('12/19/22', 'MM/DD/YY'), 'Courage', 'SL'),
 ('SLms013023', 'ms', to_date('01/30/23', 'MM/DD/YY'), 'Cheerfulness', 'SL'),
 ('SLms022723', 'ms', to_date('02/27/23', 'MM/DD/YY'), 'Honesty', 'SL'),
 ('SLms032723', 'ms', to_date('03/27/23', 'MM/DD/YY'), 'Service', 'SL'),
 ('SLms042423', 'ms', to_date('04/24/23', 'MM/DD/YY'), 'Respect', 'SL'),
 ('SHhs090722', 'hs', to_date('09/07/22', 'MM/DD/YY'), 'Friendship', 'SH'),
 ('SHhs110222', 'hs', to_date('11/02/22', 'MM/DD/YY'), 'Study', 'SH'),
 ('SHhs010423', 'hs', to_date('01/04/23', 'MM/DD/YY'), 'Cheerfulness', 'SH'),
 ('SHhs030723', 'hs', to_date('03/07/23', 'MM/DD/YY'), 'Gratitude', 'SH'),
 ('SHhs050223', 'hs', to_date('05/02/23', 'MM/DD/YY'), 'Leadership', 'SH'),
 ('SHco101322', 'co', to_date('10/13/22', 'MM/DD/YY'), 'Working Well', 'SH'),
 ('SHco111022', 'co', to_date('11/10/22', 'MM/DD/YY'), 'Friendship', 'SH'),
 ('SHco120822', 'co', to_date('12/08/22', 'MM/DD/YY'), 'Fortitude', 'SH'),

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(SHco020223', 'co', to_date('02/02/23', 'MM/DD/YY'), 'Justice', 'SH'),
(SHco030123', 'co', to_date('03/01/23', 'MM/DD/YY'), 'Temperance', 'SH'),
(SHco040523', 'co', to_date('04/05/23', 'MM/DD/YY'), 'Prudence', 'SH'),
(SHco050323', 'co', to_date('05/03/23', 'MM/DD/YY'), 'Leadership', 'SH');
```

```
INSERT INTO PermStaff (pID, pFirst, pLast, pEmail, pPhoneNumber, pTrainStatus, pTrainExp, cenID)
VALUES
('MaSmith', 'Margaret', 'Smith', 'margaretsmith87@gmail.com', '773-432-1234', 'initiated', NULL, 'EL'),
('LiBennett', 'Liam', 'Bennett', 'liam.bennett_123@yahoo.com', '815-123-4567', 'good', '2024-08-09', 'EL'),
('OlCarter', 'Olivia', 'Carter', 'oliviacarter22@hotmail.com', '773-234-5678', 'initiated', NULL, 'EL'),
('NoDavis', 'Noah', 'Davis', 'noah.davis2000@gmail.com', '773-432-1098', 'good', '2024-03-08', 'EL'),
('EmEvans', 'Emma', 'Evans', 'e.evansofficial@gmail.com', '815-345-6789', 'initiated', NULL, 'EL'),
('JaFisher', 'Jackson', 'Fisher', 'jackson.fisher_99@yahoo.com', '773-876-5432', 'flag', '2023-07-02', 'EL'),
('AvGreene', 'Ava', 'Greene', 'ava.greene_5678@hotmail.com', '815-987-6543', 'good', '2026-07-07', 'FG'),
('AiHayes', 'Aiden', 'Hayes', 'aidenh345@gmail.com', '815-789-0123', 'initiated', NULL, 'FG'),
('IsIngram', 'Isabella', 'Ingram', 'isabella.ingram@outlook.com', '773-890-1234', 'good', '2024-09-06', 'FG'),
('MaSmith1', 'Mary', 'Smith', 'm.smithofficial@gmail.com', '773-678-9012', 'initiated', NULL, 'LD'),
('LuJensen', 'Lucas', 'Jensen', 'lucas.jensen22@yahoo.com', '815-678-9012', 'good', '2024-07-25', 'LD'),
('MiKeller', 'Mia', 'Keller', 'mia.keller_456@hotmail.com', '773-234-5678', 'initiated', NULL, 'LD'),
('ElLawson', 'Ethan', 'Lawson', 'ethan.lawson_789@gmail.com', '773-890-1234', 'good', '2026-08-12', 'LD'),
('HaMitchell', 'Harper', 'Mitchell', 'harper.mitchell_321@yahoo.com', '815-789-0987', 'failed', NULL, 'LD'),
('OlNelson', 'Oliver', 'Nelson', 'o.nelsonofficial@gmail.com', '815-345-6789', 'good', '2024-11-30', 'LD'),
('AmOwens', 'Amelia', 'Owens', 'amelia.owens_22@hotmail.com', '773-234-5678', 'good', '2026-02-07', 'PW'),
('ElParker', 'Elijah', 'Parker', 'elijah.parker2001@yahoo.com', '773-678-9012', 'initiated', NULL, 'PW'),
('EvQuinn', 'Evelyn', 'Quinn', 'evelyn.quinnofficial@gmail.com', '815-678-9012', 'good', '2025-10-14', 'PW'),
('JaReynolds', 'James', 'Reynolds', 'james_reynolds22@yahoo.com', '773-432-1098', 'good', '2024-10-12', 'PW'),
('AbStewart', 'Abigail', 'Stewart', 'abigail.stewart_567@hotmail.com', '815-987-6543', 'initiated', NULL, 'PW'),
('BeTurner', 'Benjamin', 'Turner', 'benjamin_turner@gmail.com', '773-876-5432', 'good', '2025-02-21', 'PW'),
('ChVaughn', 'Charlotte', 'Vaughn', 'c.vaughnofficial@yahoo.com', '815-123-4567', 'initiated', NULL, 'SB'),
('WiWallace', 'William', 'Wallace', 'william.wallace_123@hotmail.com', '815-789-0123', 'good', '2023-12-03', 'SB'),
('ScYoung', 'Scarlett', 'Young', 's.youngofficial@gmail.com', '773-432-1098', 'failed', NULL, 'SB'),
('HeZimmerman', 'Henry', 'Zimmerman', 'h.zimmerman_789@yahoo.com', '773-432-1234', 'good', '2025-11-27', 'SB'),
('GrHarrison', 'Grace', 'Harrison', 'graceharrisonofficial@gmail.com', '773-890-1234', 'initiated', NULL, 'SL'),
('AlDixon', 'Alexander', 'Dixon', 'alexander_dixon22@hotmail.com', '815-123-4567', 'good', '2025-08-09', 'SL'),
('LiMason', 'Lily', 'Mason', 'lily.mason_456@yahoo.com', '773-432-1098', 'flag', '2023-09-08', 'SL'),
('SaPorter', 'Samuel', 'Porter', 'samuel.porterofficial@gmail.com', '773-234-5678', 'good', '2024-02-18', 'SL'),
('ChReed', 'Chloe', 'Reed', 'chloe.reed_22@yahoo.com', '815-345-6789', 'initiated', NULL, 'SL'),
('DaSanders', 'Daniel', 'Sanders', 'daniel.sanders_123@hotmail.com', '773-678-9012', 'good', '2026-06-20', 'SL'),
('ZoWarren', 'Zoey', 'Warren', 'zoey.warrenofficial@gmail.com', '815-789-0123', 'good', '2025-07-22', 'SL'),
('CaHughes', 'Caleb', 'Hughes', 'caleb.hughes_567@yahoo.com', '773-876-5432', 'initiated', NULL, 'SL'),
('ElRoss', 'Ella', 'Ross', 'ella_ross22@hotmail.com', '815-987-6543', 'good', '2026-04-11', 'SH'),
('MaPowell', 'Mason', 'Powell', 'mason.powellofficial@gmail.com', '773-432-1234', 'flag', '2023-05-28', 'SH'),
('SoBennett', 'Sofia', 'Bennett', 'sofia.bennett_321@yahoo.com', '815-789-0123', 'good', '2023-12-12', 'SH');
```

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INSERT INTO Volunteer (vID, vFirst, vLast, vPhoneNumber, vEmail, vTrainStatus, vTrainExp)
VALUES
('V01', 'Jane', 'Angel', '333-444-5567', 'janeangel1@gmail.com', 'good', '2024-10-16'),
('V02', 'David', 'Smith', '111-224-3378', 'davidsmith@outlook.com', 'good', '2024-11-23'),
('V03', 'Angela', 'Precious', '208-447-5583', 'angelaprecious3@hotmail.com', 'good', '2024-06-04'),
('V04', 'Leroy', 'Prescot', '305-456-7890', 'leroyprescot14@gmail.com', 'good', '2025-02-24'),
('V05', 'Adam', 'Jake', '224-527-8765', 'adamjake@msn.com', 'initiated', NULL),
('V06', 'Logan', 'Peter', '220-657-7890', 'loganpeter@outlook.com', 'good', '2024-08-19'),
('V07', 'Toby', 'Tyler', '451-567-6578', 'tobytyler@gmail.com', 'initiated', NULL),
('V08', 'Tyson', 'Chandler', '312-876-4521', 'tysonchandler@msn.com', 'flag', '2024-09-14'),
('V09', 'Mary', 'Lovely', '512-489-0081', 'marylovely@gmail.com', 'good', '2025-04-16'),
('V10', 'James', 'Richard', '444-012-6890', 'jamesrichard12@outlook.com', 'good', '2024-07-15');
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```
INSERT INTO event (eID, eLocation, eName, eDate, eAudience, eCategory)
VALUES
('093022ms_wksp', 'Grove', 'Goal Setting', '2022-09-30', 'ms', 'workshop'),
('012023ms_wksp', 'Grove', 'Study Techniques', '2023-01-20', 'ms', 'workshop'),
('121622ms_service', 'St. Anne's', 'Food Pantry', '2022-12-16', 'ms', 'service'),
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( '093022hs_workshop', 'Sherlake', 'Optimal Work', '2022-09-30', 'hs', 'workshop'),
( '100722hs_workshop', 'Grove', 'Leadership', '2022-10-07', 'hs', 'workshop'),
( '041322hs_workshop', 'Lindell', 'Building Character', '2022-04-13', 'hs', 'workshop'),
( '031622hs_workshop', 'Sherlake', 'Leadership', '2022-03-16', 'hs', 'workshop'),
( '100622hs_workshop', 'Sherlake', 'Building Habits', '2022-10-06', 'hs', 'workshop'),
( '111822hs_service', 'St. Anne's', 'Food Pantry', '2022-11-18', 'hs', 'service'),
( '051823hs_service', 'Arbor Care', 'Visit to Elderly', '2023-05-18', 'hs', 'service'),
( '110422hs_retreat', 'Shellbourne', 'HS Fall Retreat', '2022-11-04', 'hs', 'retreat'),
( '032323hs_retreat', 'Shellbourne', 'HS Spring Retreat', '2023-03-23', 'hs', 'retreat'),
( '121722hs_other', 'Sherlake', 'Christmas Party', '2022-12-17', 'hs', 'other'),
( '102822co_workshop', 'Elms', 'Optimal Work', '2022-10-28', 'co', 'workshop'),
( '120922co_service', 'Elms', 'Visit the Homeless', '2022-12-09', 'co', 'service'),
( '021023co_service', 'Southold', 'Visit the Homeless', '2023-02-10', 'co', 'service'),
( '032323co_service', 'St. Anne's', 'Food Pantry', '2023-03-23', 'co', 'service'),
( '011323co_retreat', 'Shellbourne', 'College Winter Retreat', '2023-01-13', 'co', 'retreat'),
( '042023co_retreat', 'Shellbourne', 'College Spring Retreat', '2023-04-20', 'co', 'retreat'),
( '110622co_other', 'Southold', 'Dinner', '2022-11-06', 'co', 'other'),
( '032623co_other', 'Southold', 'Dinner', '2023-03-26', 'co', 'other'),
( '042823co_other', 'Elms', 'Movie Night', '2023-04-28', 'co', 'other');
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INSERT INTO Takes (cID, sID)

VALUES

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( 'ELco101122', 'LeKoch'), ( 'ELco101122', 'RyWilliams'), ( 'ELco101122', 'DaMartinez'),
( 'ELco110822', 'OlSmith'), ( 'ELco110822', 'LeKoch'), ( 'ELco110822', 'SaJohnson'),
( 'ELco110822', 'MaTaylor'), ( 'ELco011023', 'AvBrown'), ( 'ELco011023', 'OlSmith'),
( 'ELco021423', 'LeKoch'), ( 'ELco021423', 'RyWilliams'), ( 'ELco021423', 'EmDavis'),
( 'ELco021423', 'SaJohnson'), ( 'ELco031423', 'DaMartinez'), ( 'ELco031423', 'MaTaylor'),
( 'ELco031423', 'OlSmith'), ( 'ELco041123', 'LeKoch'), ( 'ELco041123', 'RyWilliams'),
( 'ELco050923', 'LeKoch'), ( 'ELco050923', 'MaTaylor'), ( 'ELco050923', 'SaJohnson'),
( 'GRhs091522', 'ChAnderson'), ( 'GRhs091522', 'HeAdams'), ( 'GRhs100622', 'ChHall'),
( 'GRhs100622', 'ChAnderson'), ( 'GRhs100622', 'MiClark'), ( 'GRhs100622', 'SoParker'),
( 'GRhs102022', 'LiGreen'), ( 'GRhs102022', 'AmRodriguez'), ( 'GRhs102022', 'NoMitchell'),
( 'GRhs110322', 'ChAnderson'), ( 'GRhs110322', 'BeWilson'), ( 'GRhs110322', 'SoParker'),
( 'GRhs111722', 'MiClark'), ( 'GRhs111722', 'SaWhite'), ( 'GRhs111722', 'BeWilson'),
( 'GRhs111722', 'NoMitchell'), ( 'GRhs120122', 'BeWilson'), ( 'GRhs120122', 'SoParker'),
( 'GRhs011923', 'SaWhite'), ( 'GRhs011923', 'MiClark'), ( 'GRhs011923', 'AmRodriguez'),
( 'GRhs020223', 'NoMitchell'), ( 'GRhs020223', 'LiGreen'), ( 'GRhs030223', 'BeWilson'),
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( 'GRhs040623', 'MiClark'), ( 'GRhs040623', 'SaWhite'), ( 'GRhs042023', 'NoMitchell'),
( 'GRhs042023', 'SoParker'), ( 'GRhs042023', 'MiClark'), ( 'GRhs050423', 'BeWilson'),
( 'GRhs050423', 'MiClark'), ( 'GRhs050423', 'AmRodriguez'), ( 'GRhs050423', 'SoParker'),
( 'GRms091922', 'IsRodriguez'), ( 'GRms091922', 'JaThomas'), ( 'GRms101722', 'AvAnderson'),
( 'GRms101722', 'IsRodriguez'), ( 'GRms112122', 'IsRodriguez'), ( 'GRms112122', 'JaThomas'),
( 'GRms112122', 'OlBrown'), ( 'GRms121922', 'AvAnderson'), ( 'GRms121922', 'IsRodriguez'),
( 'GRms011623', 'MiSmith'), ( 'GRms011623', 'IsRodriguez'), ( 'GRms011623', 'AvAnderson'),
( 'GRms022023', 'WiHarris'), ( 'GRms022023', 'LiWilson'), ( 'GRms041023', 'AvAnderson'),
( 'GRms041023', 'JaThomas'), ( 'PWhs091522', 'ZoCooper'), ( 'PWhs091522', 'LoWard'),
( 'PWhs102722', 'ZoCooper'), ( 'PWhs102722', 'DaCarter'), ( 'PWhs102722', 'CaMitchell'),
( 'PWhs102722', 'EmRivera'), ( 'PWhs110322', 'EmRivera'), ( 'PWhs110322', 'ZoCooper'),
( 'PWhs111722', 'ZoCooper'), ( 'PWhs111722', 'EmRivera'), ( 'PWhs120122', 'ZoCooper'),
( 'PWhs120122', 'DaCarter'), ( 'PWhs020223', 'LiScott'), ( 'PWhs020223', 'LoWard'),
( 'PWhs021623', 'ZoCooper'), ( 'PWhs021623', 'DaCarter'), ( 'PWhs030223', 'EmRivera'),
( 'PWhs030223', 'ZoCooper'), ( 'PWhs031623', 'JaStewart'), ( 'PWhs031623', 'DaCarter'),
( 'PWhs031623', 'AnRoss'), ( 'PWhs042023', 'ZoCooper'), ( 'PWhs042023', 'ElYoung'),
( 'PWhs050423', 'ZoCooper'), ( 'PWhs050423', 'EmRivera'), ( 'PWhs051823', 'CaMitchell'),
( 'PWhs051823', 'ZoCooper'), ( 'SBhs093022', 'EmSullivan'), ( 'SBhs093022', 'MaHernandez'),
( 'SBhs102822', 'LuWilson'), ( 'SBhs111822', 'ZaParker'), ( 'SBhs111822', 'MiStewart'),
( 'SBhs111822', 'EmSullivan'), ( 'SBhs121622', 'AbMorris'), ( 'SBhs012723', 'EmSullivan'),
( 'SBhs012723', 'MaHernandez'), ( 'SBhs012723', 'OwCarter'), ( 'SBhs022423', 'EmSullivan'),
( 'SBhs022423', 'ZaParker'), ( 'SBhs033123', 'AbMorris'), ( 'SBhs033123', 'JoPeterson'),
( 'SBhs042823', 'JoPeterson'), ( 'SBhs042823', 'EmSullivan'), ( 'SBhs042823', 'ZaParker');
```


('SBhs052623', 'NiJohnson'), ('SBhs052623', 'ZaParker'), ('SLhs101222', 'EmSchneider'),
 ('SLhs101222', 'AnEllis'), ('SLhs102622', 'CIHammond'), ('SLhs102622', 'LeYates'),
 ('SLhs102622', 'CeCollier'), ('SLhs110922', 'CaFlores'), ('SLhs110922', 'TaOsborne'),
 ('SLhs110922', 'EmSchneider'), ('SLhs112322', 'EmSchneider'), ('SLhs112322', 'LeMorris'),
 ('SLhs121422', 'CIHammond'), ('SLhs011123', 'LoCunningham'), ('SLhs011123', 'CeCollier'),
 ('SLhs011123', 'EmSchneider'), ('SLhs012523', 'JoJohnson'), ('SLhs012523', 'LoCunningham'),
 ('SLhs020823', 'EmSchneider'), ('SLhs020823', 'LeMorris'), ('SLhs022223', 'LeYates'),
 ('SLhs022223', 'PaWhite'), ('SLhs022223', 'CaFlores'), ('SLhs030823', 'EmSchneider'),
 ('SLhs032223', 'EmSchneider'), ('SLhs032223', 'LoCunningham'), ('SLhs041223', 'AnEllis'),
 ('SLhs041223', 'LeMorris'), ('SLhs041923', 'EmSchneider'), ('SLhs041923', 'CIHammond'),
 ('SLms092622', 'NoClark'), ('SLms092622', 'LiNyugen'), ('SLms102422', 'StGuzman'),
 ('SLms102422', 'StHoffman'), ('SLms102422', 'NoClark'), ('SLms112822', 'DaMontgomery'),
 ('SLms112822', 'JaLee'), ('SLms121922', 'BrMitchell'), ('SLms121922', 'JaLee'),
 ('SLms121922', 'NoClark'), ('SLms013023', 'StGuzman'), ('SLms013023', 'SaGardner'),
 ('SLms013023', 'StHoffman'), ('SLms013023', 'NoClark'), ('SLms022723', 'NoClark'),
 ('SLms022723', 'JaLee'), ('SLms032723', 'JaLee'), ('SLms032723', 'StGuzman'),
 ('SLms042423', 'SaGardner'), ('SLms042423', 'NoClark'), ('SHhs090722', 'NoWarner'),
 ('SHhs090722', 'LeRuiz'), ('SHhs090722', 'FaCasey'), ('SHhs110222', 'NoWarner'),
 ('SHhs110222', 'LeRuiz'), ('SHhs010423', 'NoWarner'), ('SHhs010423', 'LeRuiz'),
 ('SHhs010423', 'FaCasey'), ('SHhs030723', 'FaCasey'), ('SHhs050223', 'NoWarner'),
 ('SHhs050223', 'FaCasey'), ('SHco101322', 'HaMcguire'), ('SHco101322', 'MaRoberts'),
 ('SHco111022', 'HaMcguire'), ('SHco120822', 'KaFleming'), ('SHco120822', 'HaMcguire'),
 ('SHco020223', 'LuGomez'), ('SHco020223', 'HaMcguire'), ('SHco030123', 'KaFleming'),
 ('SHco030123', 'LuGomez'), ('SHco040523', 'HaMcguire'), ('SHco040523', 'CaBlake'),
 ('SHco050323', 'HaMcguire'), ('SHco050323', 'MaHudson');

INSERT INTO Teaches (cID, pID)

VALUES

('ELco101122', 'LiBennett'), ('ELco110822', 'EmEvans'), ('ELco121322', 'MaSmith'),
 ('ELco011023', 'MiKeller'), ('ELco021423', 'JaReynolds'), ('ELco031423', 'WiWallace'),
 ('ELco041123', 'AlDixon'), ('ELco050923', 'ChReed'), ('GRhs091522', 'CaHughes'),
 ('GRhs100622', 'MaSmith'), ('GRhs102022', 'NoDavis'), ('GRhs110322', 'AvGreene'),
 ('GRhs111722', 'IsIngram'), ('GRhs120122', 'LuJensen'), ('GRhs011923', 'EtLawson'),
 ('GRhs020223', 'OlNelson'), ('GRhs021623', 'AmOwens'), ('GRhs030223', 'ElParker'),
 ('GRhs031623', 'AbStewart'), ('GRhs040623', 'WiWallace'), ('GRhs042023', 'HeZimmerman'),
 ('GRhs050423', 'GrHarrison'), ('GRms091922', 'AlDixon'), ('GRms091922', 'LiMason'),
 ('GRms101722', 'SaPorter'), ('GRms101722', 'DaSanders'), ('GRms112122', 'ZoWarren'),
 ('GRms112122', 'CaHughes'), ('GRms112122', 'ElRoss'), ('GRms121922', 'LiBennett'),
 ('GRms121922', 'AvGreene'), ('GRms011623', 'AiHayes'), ('GRms011623', 'IsIngram'),
 ('GRms022023', 'MaSmith'), ('GRms032023', 'LuJensen'), ('GRms032023', 'MiKeller'),
 ('GRms032023', 'EtLawson'), ('GRms041023', 'ChVaughn'), ('GRms041023', 'HeZimmerman'),
 ('GRms041023', 'GrHarrison'), ('PWhs091522', 'AlDixon'), ('PWhs100622', 'LiMason'),
 ('PWhs102722', 'SaPorter'), ('PWhs102722', 'ChReed'), ('PWhs111722', 'CaHughes'),
 ('PWhs111722', 'ElRoss'), ('PWhs120122', 'SoBennett'), ('PWhs120122', 'OlNelson'),
 ('PWhs120122', 'AmOwens'), ('PWhs020223', 'BeTurner'), ('PWhs021623', 'ScYoung'),
 ('PWhs021623', 'HeZimmerman'), ('PWhs021623', 'AlDixon'), ('PWhs030223', 'LiMason'),
 ('PWhs030223', 'SaPorter'), ('PWhs031623', 'ChReed'), ('PWhs031623', 'ZoWarren'),
 ('PWhs040623', 'CaHughes'), ('PWhs040623', 'ElRoss'), ('PWhs042023', 'LiBennett'),
 ('PWhs042023', 'AvGreene'), ('PWhs050423', 'AiHayes'), ('PWhs050423', 'IsIngram'),
 ('SBhs093022', 'MaSmith'), ('SBhs093022', 'LuJensen'), ('SBhs102822', 'MiKeller'),
 ('SBhs102822', 'EtLawson'), ('SBhs111822', 'ChVaughn'), ('SBhs111822', 'HeZimmerman'),
 ('SBhs121622', 'GrHarrison'), ('SBhs121622', 'LiMason'), ('SBhs012723', 'SaPorter'),
 ('SBhs022423', 'ChReed'), ('SBhs022423', 'DaSanders'), ('SBhs033123', 'OlNelson'),
 ('SBhs033123', 'BeTurner'), ('SBhs042823', 'ChVaughn'), ('SBhs042823', 'WiWallace'),
 ('SBhs052623', 'ScYoung'), ('SBhs052623', 'HeZimmerman'), ('SLhs101222', 'GrHarrison'),
 ('SLhs101222', 'LiMason'), ('SLhs102622', 'SaPorter'), ('SLhs102622', 'ChReed'),
 ('SLhs110922', 'DaSanders'), ('SLhs110922', 'WiWallace'), ('SLhs112322', 'HeZimmerman'),
 ('SLhs112322', 'GrHarrison'), ('SLhs121422', 'AlDixon'), ('SLhs121422', 'LiMason'),
 ('SLhs011123', 'SaPorter'), ('SLhs011123', 'ChReed'), ('SLhs012523', 'DaSanders'),
 ('SLhs020823', 'SaPorter'), ('SLhs020823', 'ChReed'), ('SLhs020823', 'DaSanders'),
 ('SLhs022223', 'GrHarrison'), ('SLhs022223', 'AlDixon'), ('SLhs030823', 'LiMason'),
 ('SLhs030823', 'WiWallace'), ('SLms092622', 'ScYoung'), ('SLms092622', 'HeZimmerman'),

```
(SLms092622', 'GrHarrison'),(SLms102422', 'AlDixon'),(SLms102422', 'LiMason'),
(SLms102422', 'SaPorter'),(SLms112822', 'ChReed'),(SLms112822', 'DaSanders'),
(SLms112822', 'ZoWarren'),(SLms121922', 'CaHughes'),(SLms121922', 'ElRoss'),
(SLms121922', 'MaPowell'),(SLms013023', 'SoBennett'),(SLms013023', 'AmOwens'),
(SLms013023', 'OlNelson'),(SLms022723', 'BeTurner'),(SLms022723', 'ChVaughn'),
(SLms022723', 'WiWallace'),(SHhs090722', 'HeZimmerman'),(SHhs090722', 'GrHarrison'),
(SHhs090722', 'LiMason'),(SHhs110222', 'SaPorter'),(SHhs110222', 'ChReed'),
(SHhs110222', 'DaSanders'),(SHhs010423', 'WiWallace'),(SHhs010423', 'ScYoung'),
(SHhs010423', 'HeZimmerman'),(SHhs030723', 'GrHarrison'),(SHhs030723', 'AlDixon'),
(SHhs030723', 'LiMason'),(SHhs050223', 'SaPorter'),(SHhs050223', 'ChReed'),
(SHhs050223', 'DaSanders'),(SHco101322', 'SaPorter'),(SHco101322', 'ChReed'),
(SHco101322', 'DaSanders'),(SHco111022', 'GrHarrison'),(SHco111022', 'AlDixon'),
(SHco111022', 'LiMason'),(SHco120822', 'WiWallace'),(SHco120822', 'ScYoung'),
(SHco120822', 'HeZimmerman'),(SHco020223', 'GrHarrison'),(SHco020223', 'AlDixon'),
(SHco020223', 'LiMason'),(SHco030123', 'SaPorter'),(SHco030123', 'ChReed'),
(SHco030123', 'DaSanders'),(SHco040523', 'ZoWarren'),(SHco040523', 'CaHughes'),
(SHco050323', 'ElRoss');
```

```
INSERT INTO Runs (pID, eID)
VALUES ('MaSmith', '093022ms_wksp'),
      ('LiBennett', '093022ms_wksp'),
      ('OlCarter', '012023ms_wksp'),
      ('IsIngram', '012023ms_wksp'),
      ('NoDavis', '121622ms_service'),
      ('MaSmith', '121622ms_service'),
      ('EmEvans', '093022hs_workshop'),
      ('JaFisher', '093022hs_workshop'),
      ('LiMason', '093022hs_workshop'),
      ('AvGreene', '100722hs_workshop'),
      ('AiHayes', '100722hs_workshop'),
      ('IsIngram', '041322hs_workshop'),
      ('MaSmith1', '041322hs_workshop'),
      ('LuJensen', '031622hs_workshop'),
      ('IsIngram', '031622hs_workshop'),
      ('AbStewart', '100622hs_workshop'),
      ('MiKeller', '100622hs_workshop'),
      ('EtLawson', '111822hs_service'),
      ('HaMitchell', '111822hs_service'),
      ('OlNelson', '111822hs_service'),
      ('IsIngram', '051823hs_service'),
      ('AmOwens', '051823hs_service'),
      ('ElParker', '051823hs_service'),
      ('WiWallace', '110422hs_retreat'),
      ('EvQuinn', '110422hs_retreat'),
      ('ElParker', '110422hs_retreat'),
      ('JaReynolds', '110422hs_retreat'),
      ('AbStewart', '110422hs_retreat'),
      ('ScYoung', '121722hs_other'),
      ('BeTurner', '032323hs_retreat'),
      ('ChVaughn', '032323hs_retreat'),
      ('WiWallace', '032323hs_retreat'),
      ('HeZimmerman', '121722hs_other'),
      ('GrHarrison', '102822co_workshop'),
      ('AlDixon', '102822co_workshop'),
      ('ScYoung', '120922co_service'),
      ('LiMason', '120922co_service'),
      ('SaPorter', '021023co_service'),
      ('ScYoung', '021023co_service'),
      ('EtLawson', '032323co_service'),
      ('LiMason', '032323co_service'),
      ('DaSanders', '011323co_retreat'),
      ('ZoWarren', '011323co_retreat');
```

```
(HaMitchell', '042023co_retreat'),
('CaHughes', '042023co_retreat'),
('ElRoss', '110622co_other'),
('DaSanders', '110622co_other'),
('IsIngram', '032623co_other'),
('ChVaughn', '032623co_other'),
('JaReynolds', '042823co_other'),
('ElParker', '042823co_other'),
('HeZimmerman', '042823co_other');
```

```
INSERT INTO attends (sID, eID) VALUES
```

```
('ChAnderson', '093022ms_wksp'),
('AvAnderson', '012023ms_wksp'),
('AnEllis', '121622ms_service'),
('JaMorris', '093022hs_workshop'),
('LoShaw', '100722hs_workshop'),
('HaMcguire', '041322hs_workshop'),
('AvBrown', '031622hs_workshop'),
('KaFleming', '100622hs_workshop'),
('EmDavis', '111822hs_service'),
('MaHudson', '051823hs_service'),
('LeYates', '110422hs_retreat'),
('BrMitchell', '032323hs_retreat'),
('JaLee', '121722hs_other'),
('FaCasey', '102822co_workshop'),
('FaCasey', '120922co_service'),
('MaBecker', '021023co_service'),
('BrMitchell', '032323co_service'),
('LiWood', '011323co_retreat'),
('DaCarter', '042023co_retreat'),
('LoMiller', '110622co_other'),
('ZaParker', '032623co_other'),
('MaRoberts', '042823co_other'),
('JaMorris', '093022ms_wksp'),
('ChAnderson', '012023ms_wksp'),
('EmDavis', '121622ms_service'),
('ChAnderson', '093022hs_workshop'),
('JaMoore', '100722hs_workshop'),
('ClHammond', '041322hs_workshop'),
('OlBrown', '031622hs_workshop'),
('AnEllis', '100622hs_workshop'),
('CeCollier', '111822hs_service'),
('KaFleming', '051823hs_service'),
('SoParker', '110422hs_retreat'),
('SaGardner', '032323hs_retreat'),
('ElYoung', '121722hs_other'),
('CaFlores', '102822co_workshop'),
('NoClark', '120922co_service'),
('ZoCooper', '021023co_service'),
('WiHarris', '032323co_service'),
('SoMorgan', '011323co_retreat');
```

```
INSERT INTO HELPS(vID, eID) VALUES
```

```
('V01', '093022hs_workshop'),
('V05', '102822co_workshop'),
('V10', '032323co_service'),
('V08', '110622co_other'),
('V03', '042823co_other'),
('V01', '102822co_workshop'),
('V10', '042823co_other'),
('V08', '032323co_service'),
('V08', '110422hs_retreat');
```

```
('V03', '100722hs_workshop');
```

Queries

/*VolunteerHelp Query (David)*/

```
Select V.VID,V.vFirst,V.VtrainStatus,V.vPhoneNumber, Count(DISTINCT H.eid) AS
Numerofeventsmanaged
From Helps H, Volunteer V, Event E
Where H.VID= V.VID And E.eid = H.EID
Group by V.VID,V.vfirst,V.VtrainStatus,V.vPhoneNumber
Having Count(H.eid) >= 1
Order by V.vfirst ASC;
```

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Query Query History

```
1 Select V.VID,V.vFirst,V.VtrainStatus,V.vPhoneNumber, Count(DISTINCT H.eid) AS Numerofeventsmanaged
2 From Helps H, Volunteer V, Event E
3 Where H.VID= V.VID And E.eid = H.EID
4 Group by V.VID,V.vfirst,V.VtrainStatus,V.vPhoneNumber
5 Having Count(H.eid) >= 1
6 Order by V.vfirst ASC;
```

Data Output Messages Notifications

	vid [PK] character varying	vfirst character varying	vtrainstatus character varying	vphonenumber character varying (12)	numerofeventsmanaged bigint
1	V05	Adam	initiated	224-527-8765	1
2	V03	Angela	good	208-447-5583	2
3	V10	James	good	444-012-6890	1
4	V01	Jane	good	333-444-5567	2
5	V06	Logan	good	220-657-7890	1
6	V08	Tyson	flag	312-876-4521	3

/*AvgStudentsClassLevel Query (Rachel)*/

SELECT cenName, cLevel, num_students/num_classes as avg_students_per_class
FROM (/* find the total number of classes of a particular level offered at each center
and the total number of students who have attended those classes*/

SELECT C.cenID, C.cenName, CL.cLevel, count(S.sID) as num_students, count(distinct
CL.cID) as num_classes




FROM student S, takes T, class CL, center C

WHERE S.sID = T.sID and T.cID = CL.cID and CL.cenID = C.cenID

GROUP BY CL.clevel, C.cenID, C.cenName)

GROUP BY cLevel, cenID, cenName, num_students, num_classes

ORDER BY cenName;

	cenname character varying 	clevel character varying (2) 	avg_students_per_class bigint 
1	Elms	co	3
2	Grove	hs	3
3	Grove	ms	2
4	Petawa	hs	2
5	Shellbourne	hs	2
6	Sherlake	hs	2
7	Sherlake	ms	2
8	Southold	co	1
9	Southold	hs	2

```

/*Query: leadershipGroupClassAttendance (Taylor)*/
SELECT Cen.cenName, Tot.cLevel, TotalStudentCount, LeadershipStudentCount
FROM Center Cen,
    /*Inner query for count of distinct leadership group students attending classes*/
    (SELECT C.cenID, C.cLevel, count(distinct S.sID) as LeadershipStudentCount
     FROM Student S, Takes T, Class C
     WHERE T.sID=S.sID and C.cID=T.cID and S.sLeadership='yes'
     GROUP BY C.cenID, c.cLevel
    ) Lead,
    /*Inner query for count of total distinct students attending classes*/
    (SELECT C.cenID, C.cLevel, count(distinct S.sID) as TotalStudentCount
     FROM Student S, Takes T, Class C
     WHERE T.sID=S.sID and C.cID=T.cID
     GROUP BY C.cenID, c.cLevel
    ) Tot
WHERE Lead.cenID=Tot.cenID and Lead.cLevel=Tot.cLevel and Lead.cenID=Cen.cenID
ORDER By Cen.cenName, Tot.cLevel;

```

```

654 /*Query: leadershipGroupClassAttendance (Taylor)*/
655 SELECT Cen.cenName, Tot.cLevel, TotalStudentCount, LeadershipStudentCount
656 FROM Center Cen,
657     /*Inner query for count of distinct leadership group students attending classes*/
658     (SELECT C.cenID, C.cLevel, count(distinct S.sID) as LeadershipStudentCount
659      FROM Student S, Takes T, Class C
660      WHERE T.sID=S.sID and C.cID=T.cID and S.sLeadership='yes'
661      GROUP BY C.cenID, c.cLevel
662     ) Lead,
663     /*Inner query for count of total distinct students attending classes*/
664     (SELECT C.cenID, C.cLevel, count(distinct S.sID) as TotalStudentCount
665      FROM Student S, Takes T, Class C
666      WHERE T.sID=S.sID and C.cID=T.cID
667      GROUP BY C.cenID, c.cLevel
668     ) Tot
669 WHERE Lead.cenID=Tot.cenID and Lead.cLevel=Tot.cLevel and Lead.cenID=Cen.cenID
670 ORDER By Cen.cenName, Tot.cLevel
671

```

Data Output Messages Notifications

	cenname character varying	clevel character varying (2)	totalstudentcount bigint	leadershipstudentcount bigint
1	Elms	co	8	5
2	Grove	hs	10	6
3	Grove	ms	7	4
4	Petawa	hs	9	5
5	Shellbourne	hs	9	6
6	Sherlake	hs	11	7
7	Sherlake	ms	8	4
8	Southold	co	6	4
9	Southold	hs	3	1

/*numberOfEvents Query (Max)*/

SELECT

s.sID AS StudentID,
s.sFirst AS FirstName,
s.sLast AS LastName,
COUNT(DISTINCT a.eID) AS numberOfEvents,
STRING_AGG(e.eName, ', ' ORDER BY e.eName) AS AttendedEvents

FROM attends a, student s, event e

WHERE a.sID = s.sID and a.eID = e.eID

GROUP BY s.sID, s.sFirst, s.sLast

HAVING COUNT(DISTINCT a.eID) > 1

ORDER BY numberOfEvents DESC;

```

40  /*numberOfEvents Query (Max)*/
41  SELECT
42      s.sID AS StudentID,
43      s.sFirst AS FirstName,
44      s.sLast AS LastName,
45      COUNT(DISTINCT a.eID) AS numberOfEvents,
46      STRING_AGG(e.eName, ', ' ORDER BY e.eName) AS AttendedEvents
47  FROM attends a, student s, event e
48  WHERE a.sID = s.sID and a.eID = e.eID
49  GROUP BY s.sID, s.sFirst, s.sLast
50  HAVING COUNT(DISTINCT a.eID) > 1
51  ORDER BY numberOfEvents DESC;
52

```





Data Output Messages Notifications

	studentid character varying	firstname character varying	lastname character varying	numerofevents bigint	attendedevents text
1	ChAnderson	Chloe	Anderson	3	Goal Setting, Optimal Work, Study Techniques
2	BrMitchell	Brayden	Mitchell	2	Food Pantry, HS Spring Retreat
3	AnEllis	Andrew	Ellis	2	Building Habits, Food Pantry
4	FaCasey	Faith	Casey	2	Optimal Work, Visit the Homeless
5	JaMorris	Jackson	Morris	2	Goal Setting, Optimal Work
6	KaFleming	Karla	Fleming	2	Building Habits, Visit to Elderly
7	EmDavis	Emily	Davis	2	Food Pantry, Food Pantry


```

/*StudentAttendance Query (Kadin)*/
SELECT s.sFirst as FirstName,
       s.sLast as LastName,
       COUNT(DISTINCT C.cID) as classAttend,
       COUNT(DISTINCT E.eID) as eventAttend
FROM Student S, Event E, Class C, Takes T, Attends A
WHERE A.eID = E.eID and A.sID = S.sID and S.sID = T.sID and T.cID = C.cID
GROUP BY s.sFirst, s.sLast
HAVING COUNT(DISTINCT C.cID) <= 1
ORDER BY classAttend ASC;

```

	firstname character varying 	lastname character varying 	classattend bigint 	eventattend bigint 
1	Ava	Brown	1	1
2	Brayden	Mitchell	1	2
3	Ella	Young	1	1
4	Emily	Davis	1	2
5	Maria	Hudson	1	1
6	Maria	Roberts	1	1
7	Olivia	Brown	1	1
8	William	Harris	1	1

GROUP STATUS REPORT**GROUP #: 1****GROUP NAME: YOUTHPROGRAM****PHASE #: 2**

Dates & attendance at group meetings in this phase:

Thursday, Oct 12	7:30-9:00PM	All except David Sheleru
Tuesday, Oct 17	7:30-8:30PM	All except David
Thursday, Oct 19	7:30-8:45PM	All
Monday, Oct 23	6:00-8:30PM	All

Overview of progress on project as of:

10/12/23:

- Update diagram and schema with minor changes.
- Started implementing data (excel sheet)
- Query ideas and table assignments.
- Assign tables for DML and DDL.

10/17/23:

- Combine DML + DDL scripts for all entities/attributes except relationships.
- Fulfill data (excel sheet)
- Plan out and work on relationship entities.
- Plan out query ideas.

10/19/23:

- Combine all tables entities including relationships.
- Insert all data.
- Assign queries.

10/23/23:

- Review and make sure queries are working properly.
- Update report to include DDL, DML, and Queries.

Phase 2 Deliverable is complete. The YOUTHPROGRAM Database is complete and functional. Listed below are the reports, queries, and DDL responsibilities completed by each group member.

CONTRIBUTIONS OF GROUP MEMBERS

Leader: Kadin Suga

- * QUERY IMPLEMENTATION: studentAttendance
- * TABLE DDL: class & runs

Recorder: Max Simmer

- * Revised relational schema and update report.
- * QUERY IMPLEMENTATION: numberOfEvents
- * TABLE DDL: center & event & attend

Phase Checker: David Sheleru

- * QUERY IMPLEMENTATION: volunteerHelp
- * TABLE DDL: volunteer & helps

Technical Advisor: Taylor Fischer

- * Compiled all DDL/DML together

- * Revised document to include verified DDL
- * QUERY IMPLEMENTATION: leadershipGroupClassAttendance
- * TABLE DDL: student & takes

Technical Advisor: Rachel Gordon

- * Revised ER diagram
- * Revised document to include verified DDL
- * QUERY IMPLEMENTATION: avgStudentsClassLevel
- * TABLE DDL: permStaff & teaches