

CPCA

Database Documentation 2017

Executive Summary

This document's objective and purpose is to provide a design for and implementation of a database for The Center for the Prevention of Child Abuse of Duchess County, as well as essential information regarding the architecture of the database. The CPCA requires a database to be able to store, insert, update, delete, and otherwise manipulate data, as well as view reports of data, for their business records and purposes. The database will be key in taking attendance for classes, building and viewing reports on participants, and storing class survey data.

All of the CPCA's data which was previously recorded on plain paper and stored in filing cabinets will now be accounted for in the database, and can quickly and easily be found, rather than manually storing and searching through physical pieces of paper for information. The database will be integrated with the client application, which will provide a clear front-end that will allow the users at the CPCA to easily and effectively retrieve data from the database. The implementation of the database will coincide with the use of physical paper reporting, until the system is proven effective and the users obtain a level of comfortability with the application utilizing the database, ultimately eliminating the need to use paper data storage and recovery.

The design encompasses all aspects of the CPCA's data retrieval, including—but not limited to—details about participants, classes, employees, reports, surveys, referrals and families. This database will only be accessible from the CPCA's secure network at its headquarters due to the high level of sensitive and confidential information that it contains.

Entity Relationship Diagram

An Entity Relationship Diagram, also known as an ER diagram or ERD, is a data modeling technique that graphically illustrates an information system's entities and the relationship between those entities. The elements of an ERD are:

Entities
 Attributes
 Relationships (Cardinality)

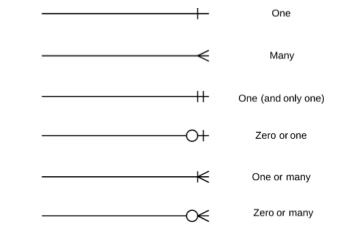
An **entity** is a real-world item or concept that exists on its own, typically a noun—such as a person, object, concept, or event—that can have data stored about it. It is represented by the tables in the database. Each row of the table is an instance of that entity. For example, a customer, student, car, or product.

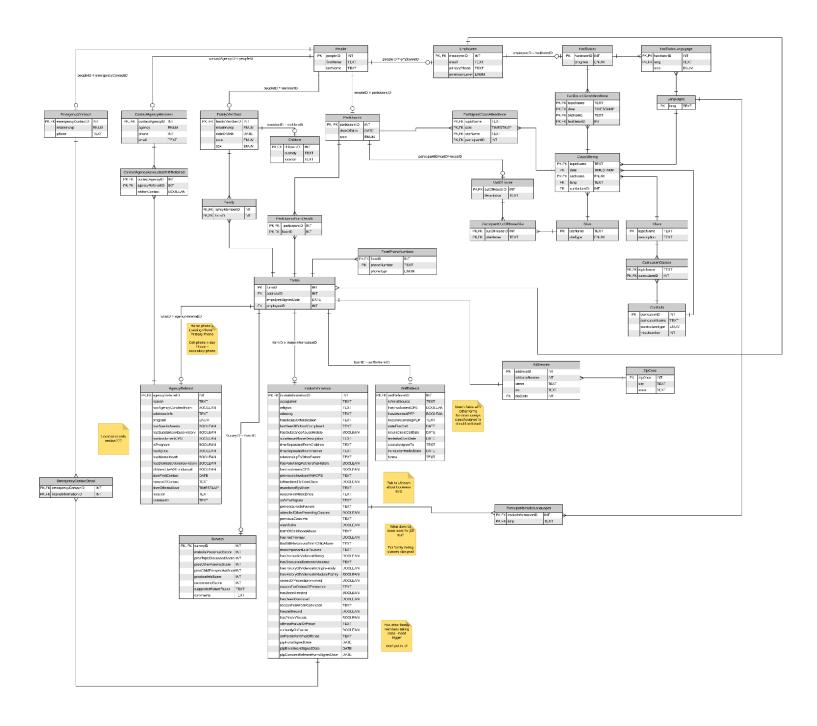
An **attribute** of an entity is a particular property that describes the entity. For example, attributes for a student entity may be: student_id, first_name, last_name, email, phone_number.

A **relationship** is the association that describes the interaction between entities, like a verb. For example, if a student registers for a course, the two entities would be the student and the course, and the relationship depicted is the act of enrolling, connecting the two entities in that way. Relationships are typically shown as connecting lines.

Cardinality defines relationships in terms of numbers; it is the number of instances that one entity can, or must, be associated with each instance of another entity. This can be **one-to-one**, **one-to-many**, or **many-to-many** relationships.

- One-to-One: Both tables can have only one record on either side of the relationship.
 - For example, one student associated with one mailing address.
- One-to-Many: The first table contains only one record that relates to none, or many records in the second, related table.
 - For example, one student registers for multiple courses, but all those courses have a single line back to that one student.
- Many-to-Many: Each record in one table can relate to any number of records (or no records) in the other table.
 - Students as a group are associated with multiple faculty members, and faculty members in turn are associated with multiple students.





Primary and Foreign Keys

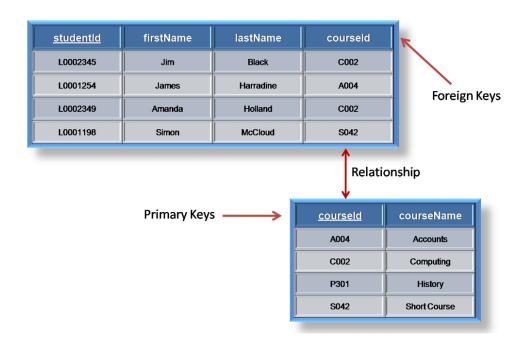
Primary keys and foreign keys are extremely important concepts and are critical to an efficient relational database. Without them, relational databases would not work. A **primary key** (PK) is a column, or columns, in a table that uniquely identifies the rows in that table. In order for a table to qualify as a relational table, it must have a primary key. The primary key's main features are:

- It must contain a unique value for each row of data.
- It cannot contain null values.

For example, the primary key in a *Students* table may be *student id*, since that is a unique number which identifies a specific student.

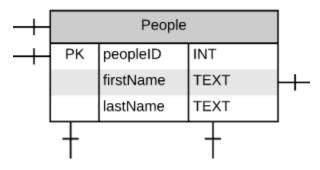
A **foreign key** (FK) is a column, or columns, in a table that refers to the primary key in another table. Unlike primary keys, duplicate and null values are allowed in foreign keys. Foreign keys allow for *referential integrity*, meaning that if a foreign key contains a value, this value refers to an existing record in the related table.

In the example below, the *Courses* table has a primary key of *courseld*, which is a foreign key in the *Students* table. The cardinality of their relationship is *many-to-many*, because a student can have many courses, and a course can have many students.



Tables

People Table



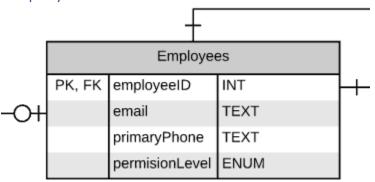
The People Table stores general data regarding any person. This table has the following attributes:

- peopleID (PK)
- firstName
- lastName

The People Table has 5 relationships and they are:

Table	Relationship	Other Table
People	One-to-Zero or One	EmergencyContacts
People	One-to-Zero or One	ContactAgencyMembers
People	One-to-Zero or One	FamilyMembers
People	One-to-Zero or One	Participants
People	One-to-Zero or One	Employees

Employees Table



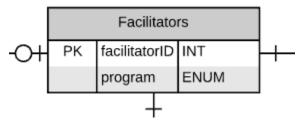
The Employees Table stores an employee's general data. The table has the following attributes:

- employeeID (PK/FK)
- email
- primaryPhone
- permissionLevel

The Employees Table has 3 relationships and they are:

Table	Relationship	Other Table
Employees	Zero or One-to-One	People
Employees	One-to-Zero or One	Facilitators
Employees	One-to-Many	Forms

Facilitators Table



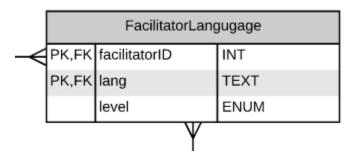
The Facilitators Table stores specific data for a facilitator type of employee. The table has the following attributes:

- facilitatorID (PK)
- program

The Facilitators Table has 3 relationships and they are:

Table	Relationship	Other Table
Facilitators	Zero or One-to-One	Employees
Facilitators	One-to-Many	Facilitator Class Attendance
Facilitators	One-to-Many	FacilitatorLanguage

FacilitatorLanguage Table



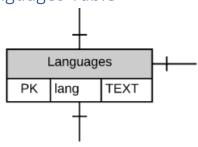
The FacilitatorLanguage Table stores data regarding the languages that a facilitator is able to speak. The table has the following attributes:

- facilitatorID (PK/FK)
- lang (PK/FK)
- level

The FacilitatorLanguage Table has 2 relationships and they are:

Table	Relationship	Other Table
FacilitatorLanguage	Many-to-One	Facilitators
FacilitatorLanguage	Many-to-One	Languages





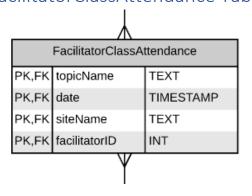
The Languages Table stores various languages. The table has the following attributes:

lang (PK)

The Languages Table has 3 relationships and they are:

Table	Relationship	Other Table
Languages	One-to-Many	FacilitatorLanguage
Languages	One-to-many	ClassOffering
Languages	One-to-Many	ParticipantsIntakeLanguages

FacilitatorClassAttendance Table



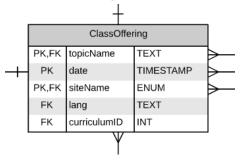
The FacilitatorClassAttendance Table stores data regarding class attendance taken by the facilitator. The table has the following attributes:

- topicName (PK/FK)
- date (PK/FK)
- siteName (PK/FK)
- facilitatorID (PK/FK)

The FacilitatorClassAttendance Table has 2 relationships and they are:

Table	Relationship	Other Table
FacilitatorClassAttendance	Many-to-One	Facilitators
FacilitatorClassAttendance	Many-to-One	ClassOffering

ClassOffering Table



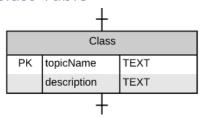
The ClassOffering Table has 6 relationships and they are:

The ClassOffering Table stores data regarding class attendance taken by the facilitator. The table has the following attributes:

- topicName (PK/FK)
- date (PK)
- siteName (PK/FK)
- lang (FK)
- curriculumID (FK)

Table	Relationship	Other Table
ClassOffering	Many-to-One	Languages
ClassOffering	Many-to-One	Curricula
ClassOffering	Many-to-One	Class
ClassOffering	Many-to-One	Sites
ClassOffering	One-to-Many	Facilitator Class Attendance
ClassOffering	One-to-Many	ParticipantClassAttendance

Class Table



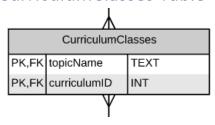
The Class Table has 2 relationships and they are:

The Class Table stores basic data about classes. The table has the following attributes:

- topicName (PK)
- description

Table	Relationship	Other Table
Class	One-to-Many	ClassOffering
Class	One-to-many	CurriculumClasses

CurriculumClasses Table



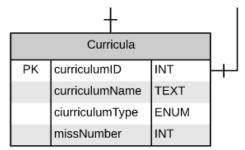
The CurriculumClass Table stores data connecting a class with a specific curriculum. The table has the following attributes:

- topicName (PK/FK)
- curriculumID (PK/FK)

The CurriculumClasses Table has 2 relationships and they are:

Table	Relationship	Other Table
CurriculumClass	Many-to-One	Class
CurriculumClass	Many-to-One	Curricula

Curricula Table



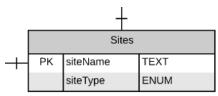
The Curricula Table stores data about specific curricula. The table has the following attributes:

- curriculumID (PK)
- curriculumName
- curriculumType
- missNumber

The Curricula Table has 2 relationships and they are:

Table	Relationship	Other Table
Curricula	One-to-Many	CurriculumClasses
ClassOffering	One-to-Many	ClassOffering

Sites Table



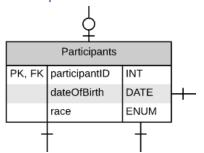
The Sites Table stores data about the type of various sites. The table has the following attributes:

- siteName (PK)
- siteType

The Sites Table has 2 relationships and they are:

Table	Relationship	Other Table
Sites	One-to-Many	ClassOffering
Sites	One-to-Many	ParticipantOutOfHouseSite

Participants Table



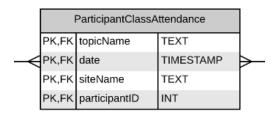
The Participants Table stores data about participants. The table has the following attributes:

- participantID (PK/FK)
- dateOfBirth
- race

The Participants Table has 4 relationships and they are:

	Table	Relationship	Other Table
Pa	articipants	Zero or One-to-One	People
Pa	articipants	One-to-Many	Participant Class Attendance
Pa	articipants	One-to-Zero or One	OutOfHouse
Pa	articipants	One-to-Many	ParticipantsFormDetails

ParticipantClassAttendance Table



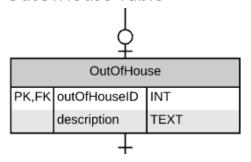
The ParticipantClassAttendance Table stores data about attendance as recorded by participants. The table has the following attributes:

- topicName (PK/FK)
- date (PK/FK)
- siteName (PK/FK)
- participantID (PK/FK)

The ParticipantClassAttendance Table has 2 relationships and they are:

Table	Relationship	Other Table
Participant Class Attendance	Many-to-One	Participants
ParticipantClassAttendance Many-to-One ClassOfferi		ClassOffering

OutOfHouse Table



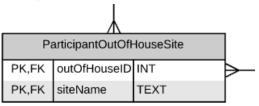
The OutOfHouse Table stores basic data about out-of-house sites descriptions. The table has the following attributes:

- outOfHouseID (PK/FK)
- description

The OutOfHouse Table has 2 relationships and they are:

Table	Relationship	Other Table
OutOfHouse	Zero or One-to-One	Participants
OutOfHouse	One-to-Many	ParticipantOutOfHouseSite

ParticipantOutOfHouseSite Table



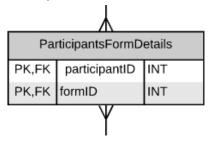
The ParticipantOutOfHouseSite Table stores basic data about outof-house sites names. The table has the following attributes:

- outOfHouseID (PK/FK)
- siteName (PK/FK)

The ParticipantOutOfHouseSite Table has 2 relationships and they are:

Table	Relationship	Other Table
ParticipantOutOfHouseSite	Many-to-One	OutOfHouse
ParticipantOutOfHouseSite	Many-to-One	Sites

ParticipantsFormDetails Table



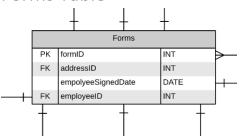
The ParticipantsFormDetails Table stores basic data connecting participants to forms. The table has the following attributes:

- participantID (PK/FK)
- formID (PK/FK)

The ParticipantsFormDetails Table has 2 relationships and they are:

Table Relationship		Other Table	
ParticipantsFormDetails	Many-to-One	Participants	
ParticipantsFormDetails	Many-to-One	Forms	

Forms Table



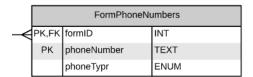
The Forms Table has 9 relationships and they are:

The Forms Table stores regarding forms. The table has the following attributes:

- formID (PK)
- addressID (FK)
- employeeSignedDate
- employeeID (FK)

Table	Relationship	Other Table
Forms	One-to-Many	ParticipantsFormDetails
Forms	One-to-Many	FormPhoneNumbers
Forms	Many-to-One	Employees
Forms	One-to-One	Addresses
Forms	One-to-Zero or One	SelfReferral
Forms	One-to-Zero or One	IntakeInformation
Forms	One-to-Zero or One	Surveys
Forms	One-to-Zero or One	AgencyReferral
Forms	One-to-Many	Family

FormPhoneNumbers Table



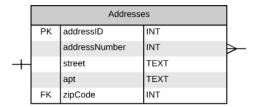
The FormPhoneNumbers Table stores regarding forms. The table has the following attributes:

- formID (PK/FK)
- phoneNumber (PK)
- phoneType

The Forms Table has 1 relationship and it is:

Table Relationship		Other Table	
FormPhoneNumbers	Many-to-One	Forms	

Addresses Table



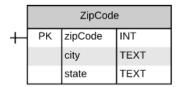
The Addresses Table stores basic data about addresses. The table has the following attributes:

- addressID (PK)
- addressNumber
- street
- apt
- zipCode (FK)

The Addresses Table has 2 relationships and they are:

Table	Relationship Other Table	
Addresses	Many-to-One	ZipCode
Addresses	One-to-One	Forms

ZipCode Table



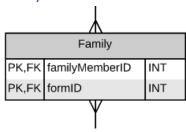
The ZipCode Table stores basic data about zip codes. The table has the following attributes:

- zipCode (PK)
- city
- state

The ZipCode Table has 1 relationships and it is:

Table	Relationship	Other Table
ZipCode	One-to-Many	Addresses

Family Table



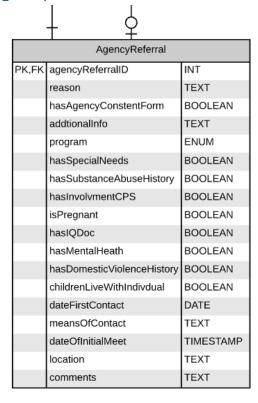
The Family Table a connects a generated ID to forms which mention family with additional data. The table has the following attributes:

- familyMemberID (PK/FK)
- formID (PK/FK)

The Family Table has 2 relationships and they are:

Table	Relationship	Other Table
Family	Many-to-One	Forms
Family	Many-to-One	FamilyMembers

AgencyReferral Table



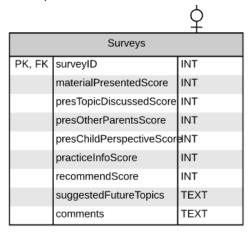
The AgencyReferral Table stores basic data from the referral form for a referral by an agency. The table has the following attributes:

- agencyReferralID (PK/FK)
- reason
- hasAgencyConsentForm
- additionalInfo
- program
- hasSpecialNeeds
- hasSubstanceAbuseHistory
- hasInvolvementCPS
- isPregnant
- hasIQDoc
- hasMentalHealth
- hasDomesticAbuseHistory
- childrenLiveWithIndividual
- dateFirstContact
- meansofContact
- dateOfInitialMeet
- location
- comments

The AgencyReferral Table has 2 relationships and they are:

Table	Relationship	Other Table	
AgencyReferral	Zero or One-to-One	Forms	
AgencyReferral	One-to-Many	ContactAgencyAssociatedWithReferred	

Surveys Table



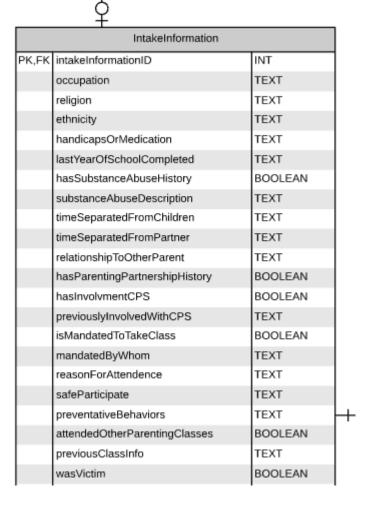
The Surveys Table stores data from the class surveys. The table has the following attributes:

- surveyID (PK)
- materialPresentedScore
- presTopicDiscussedScore
- presOtherParentsScore
- presChildPerspectiveScore
- practiceInfoScore
- recommendScore
- suggestedFutureTopics
- comments

The Surveys Table has 1 relationships and it is:

Table	Relationship	Other Table
Surveys	Zero or One-to-One	Forms

IntakeInformation Table



The IntakeInformation Table stores data from the intake forms. The table has the following attributes:

- intakeInformationID(PK/FK)
- occupation
- religion
- ethnicity
- handicapsOrMedication
- lastYearOfSchoolCompleted
- hasSubstanceAbuseHistory
- substanceAbuseDescription
- timeSeparatedFromChildren
- timeSeparatedFromPartner
- relationshipToOtherParent
- hasParentingPartnershipHistory
- hasInvolvementCPS
- previouslyInvolvedWithCPS
- isMandatedToTakeClass
- mandatedByWhom
- reasonForAttendance
- safeParticipate
- preventativeBehaviors
- $\bullet \quad attended Other Parenting Classes \\$
- previousClassInfo
- wasVictim

formOfChildhoodAbuse	TEXT
hasHadTherapy	BOOLEAN
feelStillHasIssuesFromChildAbuse	TEXT
mostImportantLikeToLearn	TEXT
hasDomesticViolenceHistory	BOOLEAN
hasDiscussedDomesticViolence	TEXT
hasHistoryOfViolenceInOriginFamily	BOOLEAN
hasHistoryOfViolenceInNuclearFamily	BOOLEAN
ordersOfProtectionInvolved	BOOLEAN
reasonForOrdersOfProtection	TEXT
hasBeenArrested	BOOLEAN
hasBeenConvicted	BOOLEAN
reasonForArrest/Conviction	TEXT
hasJailRecord	BOOLEAN
hasPrisonRecord	BOOLEAN
offenseForJailOrPrison	TEXT
currentlyOnParole	BOOLEAN
onParoleForWhatOffense	TEXT
prpFormSignedDate	DATE
ptpEnrollmentSignedDate	DATE
ptpConstentReleaseFormSignedDate	DATE
+	

- formOfChildhoodAbuse
- hasHadTherapy
- feelStillHasIssuesFromChildAbuse
- mostImportantLikeToLearn
- hasDomesticViolenceHistory
- hasDiscussedDomesticViolence
- hasHistoryOfViolenceInOriginFamily
- hasHistoryOfViolenceInNuclearFamily
- ordersOfProtectionInvolved
- reasonForOrdersOfProtection
- hasBeenArrested
- hasBeenConvicted
- reasonForArrest/Conviction
- hasJailRecord
- hasPrisonRecord
- offenseForJailOrPrison
- currentlyOnParole
- onParoleForWhatOffense
- hasOtherFamilyMembersTakingClass
- ptpFormSignedDate
- ptpEnrollmentSignedDate
- ptpConsentReleaseFormSignedDate

The IntakeInformation Table has 3 relationships and they are:

Table	Relationship	Other Table	
IntakeInformation	Zero or One-to-One	Forms	
IntakeInformation	One-to-Many	ParticipantsIntakeLanguages	
IntakeInformation	One-to-Many	EmergencyContactDetail	

ParticipantsIntakeLanguages Table



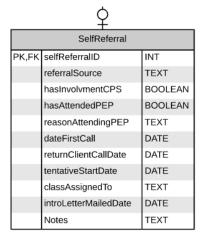
The ParticipantsIntakeLanguage Table stores basic data connecting intake forms to a language. The table has the following attributes:

- intakeInformationID (PK/FK)
- lang (PK/FK)

The ParticipantsIntakeLanguages Table has 2 relationships and they are:

Table	Relationship Other Tab	
ParticipantsIntakeLanguage	Many-to-One	IntakeInformation
ParticipantsIntakeLanguage	Many-to-One	Languages

SelfReferral Table



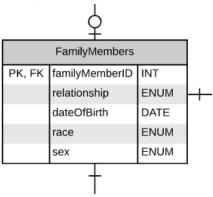
The SelfReferral Table stores data about the self-referral form. The table has the following attributes:

- selfReferralID (PK/FK)
- referralSource
- hasInvolvementCPS
- hasAttendedPEP
- dateFirstCall
- returnClientCallDate
- tentativeStartDate
- classAssignedTo
- introLetterMailedDate
- notes

The SelfReferral Table has 1 relationship and it is:

Table	Relationship	Other Table	
SelfReferral	Zero or One-to-One	Forms	

FamilyMembers Table



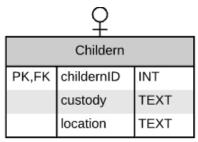
The FamilyMembers Table stores basic data about family members. The table has the following attributes:

- memberID (PK/FK)
- relationship
- dateOfBirth
- race
- sex

The FamilyMembers Table has 3 relationships and they are:

Table	Relationship	Other Table
FamilyMembers	Zero or One-to-One	People
FamilyMembers	One-to-Zero or One	Children
FamilyMembers	One-to-Many	Family

Children Table



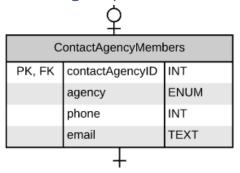
The Children Table stores data regarding custody and location of children. The table has the following attributes:

- childrenID (PK/FK)
- custody
- location

The Children Table has 1 relationship and it is:

Table	Relationship	Other Table	
Children	Zero or One-to-One	FamilyMembers	

ContactAgencyMembers Table



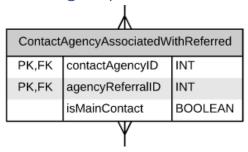
The ContactAgencyMembers Table stores basic data about a contact agency. The table has the following attributes:

- contactAgencyID (PK/FK)
- agency
- phone
- email

The ContactAgencyMembers Table has 2 relationships and they are:

Table	Relationship	Other Table
ContactAgencyMembers	Zero or One-to-Many	People
ContactAgencyMembers	One-to-Many	ContactAgencyAssociatedWithReferred

ContactAgencyAssociatedWithReferred Table



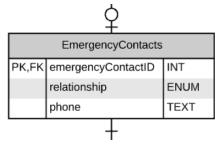
The ContactAgencyAssociatedWithReferred Table stores basic data connecting a contact agency with an agency referral. The table has the following attributes:

- contactAgencyID (PK/FK)
- agencyReferralID (PK/FK)
- isMainContact

The ContactAgencyAssociatedWithReferred Table has 2 relationships and they are:

Table	Relationship	Other Table	
ContactAgencyAssociatedWithReferred	Many-to-One	ContactAgencyMembers	
ContactAgencyAssociatedWithReferred	Many-to-One	AgencyReferral	

EmergencyContacts Table



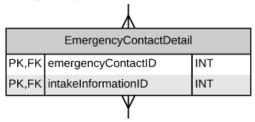
The EmergencyContacts Table stores basic data about emergency contacts. The table has the following attributes:

- emergencyContactID (PK/FK)
- relationship
- phone

The EmergencyContacts Table has 2 relationships and they are:

Table	Relationship	Other Table	
EmergencyContacts	Zero or One-to-One	People	
EmergencyContacts	One-to-Many	EmergencyContactDetail	

EmergencyContactDetail Table



The EmergencyContactDetail Table stores basic data about emergency contacts. The table has the following attributes:

- emergencyContactID (PK/FK)
- relationship
- phone

The EmergencyContactDetail Table has 2 relationships and they are:

Table	Relationship	Other Table
EmergencyContactDetail	Many-to-One	IntakeInformation
EmergencyContactDetail	Many-to-One	EmergencyContacts

SQL Statements

"DROP TABLE"

The "DROP TABLE IF EXISTS" statement in Structured Query Language (SQL) removes a table, if it exists with the provided name. The table would have previously been created with the "CREATE TABLE" statement. The dropped table is completely removed from the database schema and disk file. Once the table is removed, the file cannot be recovered—so use this statement with care.

```
DROP TABLE IF EXISTS
EmergencyContactDetail;
DROP TABLE IF EXISTS
ParticipantsIntakeLanguages;
DROP TABLE IF EXISTS Family;
DROP TABLE IF EXISTS
ContactAgencyAssociatedWithReferred
DROP TABLE IF EXISTS
IntakeInformation;
DROP TABLE IF EXISTS Surveys;
DROP TABLE IF EXISTS
AgencyReferral;
DROP TABLE IF EXISTS SelfReferral;
DROP TABLE IF EXISTS
ParticipantsFormDetails;
DROP TABLE IF EXISTS
FormPhoneNumbers;
DROP TABLE IF EXISTS Forms;
DROP TABLE IF EXISTS Addresses;
DROP TABLE IF EXISTS ZipCode;
```

```
DROP TABLE IF EXISTS
ParticipantOutOfHouseSite;
DROP TABLE IF EXISTS
FacilitatorLangugage;
DROP TABLE IF EXISTS
ParticipantClassAttendance;
DROP TABLE IF EXISTS
FacilitatorClassAttendance;
DROP TABLE IF EXISTS ClassOffering;
DROP TABLE IF EXISTS
CurriculumClasses;
DROP TABLE IF EXISTS Classes:
DROP TABLE IF EXISTS Curricula;
DROP TABLE IF EXISTS Sites;
DROP TABLE IF EXISTS Languages;
DROP TABLE IF EXISTS
ContactAgencyMembers;
DROP TABLE IF EXISTS
EmergencyContacts;
DROP TABLE IF EXISTS Children;
DROP TABLE IF EXISTS FamilyMembers;
```

```
DROP TABLE IF EXISTS OutOfHouse;
DROP TABLE IF EXISTS Participants;
DROP TABLE IF EXISTS Facilitators;
DROP TABLE IF EXISTS Employees;
DROP TABLE IF EXISTS People;
DROP TYPE IF EXISTS RELATIONSHIP;
DROP TYPE IF EXISTS PARENTINGPROGRAM;
DROP TYPE IF EXISTS PROGRAMTYPE;
DROP TYPE IF EXISTS PHONETYPE;
DROP TYPE IF EXISTS PERMISSION;
DROP TYPE IF EXISTS STATES;
DROP TYPE IF EXISTS LEVELTYPE;
DROP TYPE IF EXISTS CURRICULUMTYPE;
DROP TYPE IF EXISTS REFERRALTYPE;
DROP TYPE IF EXISTS FORM;
DROP TYPE IF EXISTS SEX;
DROP TYPE IF EXISTS RACE;
```

"CRFATF"

Create statements in SQL are used to create tables, types, and other objects that are a part of an ER Diagram.

"CREATE TYPE AS ENUM"

The "CREATE TYPE AS ENUM" statement in SQL creates an enumerated data type with the name provided. Enumerated (enum) types are data types that comprise a static, ordered set of values.

```
CREATE TYPE RACE AS ENUM('Asian', 'Black', 'Latino', 'Native American', 'Pacific Islander', 'White');
CREATE TYPE SEX AS ENUM ('Male', 'Female');
CREATE TYPE FORM AS ENUM ('Intake', 'Referral');
CREATE TYPE REFERRALTYPE AS ENUM ('Self', 'Court', 'Agency', 'Friend', 'Family');
CREATE TYPE CURRICULUMTYPE AS ENUM ('FULL', 'MINI');
CREATE TYPE LEVELTYPE AS ENUM ('PRIMARY', 'SECONDARY');
CREATE TYPE STATES AS ENUM('Alabama', 'Alaska', 'Arizona', 'Arkansas', 'California', 'Colorado', 'Connecticut', 'Delaware',
'Florida', 'Georgia', 'Hawaii', 'Idaho', 'Illinois', 'Indiana', 'Iowa', 'Kansas', 'Kentucky', 'Louisiana', 'Maine', 'Maryland',
'Massachusetts', 'Michigan', 'Minnesota', 'Mississippi', 'Missouri', 'Montana', 'Nebraska', 'Nevada', 'New Hampshire',
'New Jersey', 'New Mexico', 'New York', 'North Carolina', 'North Dakota', 'Ohio', 'Oklahoma', 'Oregon', 'Pennsylvania',
'Rhode Island', 'South Carolina', 'South Dakota', 'Tennessee', 'Texas', 'Utah', 'Vermont', 'Virginia', 'Washington',
'West Virginia', 'Wisconsin', 'Wyoming');
CREATE TYPE PERMISSION AS ENUM('User', 'Facilitator', 'Administator', 'Superuser');
CREATE TYPE PHONETYPE AS ENUM('Primary', 'Secondary', 'Day', 'Evening', 'Home', 'Cell');
CREATE TYPE PROGRAMTYPE AS ENUM('In-House', 'Jail', 'Rehab');
CREATE TYPE PARENTINGPROGRAM AS ENUM('TPP', 'SNPP', 'PEP');
CREATE TYPE RELATIONSHIP AS ENUM ('Mother', 'Father', 'Daughter', 'Son', 'Sister', 'Brother', 'Aunt', 'Uncle', 'Niece',
'Nephew', 'Cousin', 'Grandmother', 'Grandfather', 'Granddaughter', 'Grandson', 'Stepsister', 'Stepbrother', 'Stepmother',
'Stepfather', 'Stepdaughter', 'Stepson', 'Sister-in-law', 'Brother-in-law', 'Mother-in-law', 'Daughter-in-law', 'Son-in-law',
'Friend', 'Other');
```

"CREATE TABLE"

The "CREATE TABLE" statement in SQL defines a new table with the given parameters. The following "CREATE TABLE" statements are used to create the various tables in the database, corresponding with the tables in the ER Diagram.

People and Subtypes

```
CREATE TABLE IF NOT EXISTS People (
  peopleID
                                                            SERIAL
                                                                               NOT NULL
                                                                                             UNIQUE,
  firstName
                                                            TEXT
                                                                               NOT NULL,
  lastName
                                                            TEXT
                                                                               NOT NULL,
  PRIMARY KEY (peopleID)
);
CREATE TABLE IF NOT EXISTS Employees (
  employeeID
                                                            INT,
  email
                                                            TEXT
                                                                                NOT NULL,
  primaryPhone
                                                            TEXT,
 permisionLevel
                                                            PERMISSION
                                                                               NOT NULL,
 PRIMARY KEY (employeeID),
  FOREIGN KEY (employeeID) REFERENCES People(peopleID)
);
CREATE TABLE IF NOT EXISTS Facilitators (
  facilitatorID
                                                            INT,
 program
                                                            PARENTINGPROGRAM,
  PRIMARY KEY (facilitatorID),
  FOREIGN KEY (facilitatorID) REFERENCES Employees(employeeID)
);
```

```
CREATE TABLE IF NOT EXISTS Participants (
 participantID
                                                            INT,
  dateOfBirth
                                                            DATE
                                                                                NOT NULL,
                                                            RACE
                                                                                NOT NULL,
  race
  PRIMARY KEY (participantID),
  FOREIGN KEY (participantID) REFERENCES People (peopleID)
);
CREATE TABLE IF NOT EXISTS OutOfHouse (
 outOfHouseID
                                                            INT,
 description
                                                            TEXT,
 PRIMARY KEY (outOfHouseID),
  FOREIGN KEY (outOfHouseID) REFERENCES Participants(participantID)
);
CREATE TABLE IF NOT EXISTS FamilyMembers (
 familyMemberID
                                                            INT,
 relationship
                                                            RELATIONSHIP
                                                                               NOT NULL,
  dateOfBirth
                                                            DATE
                                                                                NOT NULL,
                                                            RACE,
  race
                                                            SEX,
  PRIMARY KEY (familyMemberID),
  FOREIGN KEY (familyMemberID) REFERENCES People(peopleID)
);
CREATE TABLE IF NOT EXISTS Children (
 childrenID
                                                            INT,
 custody
                                                            TEXT
                                                                                NOT NULL,
 location
                                                            TEXT
                                                                                NOT NULL,
  PRIMARY KEY (childrenID),
  FOREIGN KEY (childrenID) REFERENCES FamilyMembers(familyMemberID)
);
```

```
CREATE TABLE IF NOT EXISTS EmergencyContacts (
  emergencyContactID
                                                           INT,
  relationship
                                                           RELATIONSHIP
                                                                              NOT NULL,
  primaryPhone
                                                           TEXT
                                                                               NOT NULL,
  PRIMARY KEY (emergencyContactID),
  FOREIGN KEY (emergencyContactID) REFERENCES People(peopleID)
);
CREATE TABLE IF NOT EXISTS ContactAgencyMembers (
  contactAgencyID
                                                           INT,
                                                           REFERRALTYPE
  agency
                                                                              NOT NULL,
  phone
                                                           TEXT
                                                                               NOT NULL,
  email
                                                           TEXT
                                                                               NOT NULL,
  PRIMARY KEY (contactAgencyID),
  FOREIGN KEY (contactAgencyID) REFERENCES People(peopleID)
);
```

Curricula and Class

```
CREATE TABLE IF NOT EXISTS Languages (
                                                           TEXT
                                                                              NOT NULL
                                                                                           UNIQUE,
  lang
  PRIMARY KEY (lang)
) ;
CREATE TABLE IF NOT EXISTS Sites (
  siteName
                                                           TEXT
                                                                             NOT NULL
                                                                                           UNIQUE,
 programType
                                                           PROGRAMTYPE
                                                                             NOT NULL,
  PRIMARY KEY (siteName)
);
```

```
CREATE TABLE IF NOT EXISTS Curricula (
  curriculumID
                                                     SERIAL
                                                                         NOT NULL
                                                                                       UNIQUE,
  curriculumName
                                                     TEXT
                                                                         NOT NULL,
  curriculmType
                                                     PROGRAMTYPE
                                                                         NOT NULL,
  missNumber
                                                     TNT
                                                                         DEFAULT 2,
  PRIMARY KEY (curriculumID)
);
CREATE TABLE IF NOT EXISTS Classes (
 topicName
                                                     TEXT
                                                                         NOT NULL
                                                                                       UNIQUE,
 description
                                                     TEXT.
  PRIMARY KEY (topicName)
);
CREATE TABLE IF NOT EXISTS CurriculumClasses (
  topicName
                                                     TEXT.
 curriculumID
                                                     INT,
  PRIMARY KEY (topicName, curriculumID),
  FOREIGN KEY (topicName) REFERENCES Classes (topicName),
  FOREIGN KEY (curriculumID) REFERENCES Curricula(curriculumID)
);
CREATE TABLE IF NOT EXISTS ClassOffering (
  topicName
                                                     TEXT,
                                                     TIMESTAMP
  date
                                                                         NOT NULL,
  siteName
                                                     TEXT.
                                                     TEXT
                                                                         DEFAULT 'English',
  lang
  curriculumID
                                                     INT,
  PRIMARY KEY (topicName, date, siteName),
  FOREIGN KEY (topicName) REFERENCES Classes(topicName),
  FOREIGN KEY (siteName) REFERENCES Sites(siteName),
  FOREIGN KEY (lang) REFERENCES Languages (lang),
  FOREIGN KEY (curriculumID) REFERENCES Curricula(curriculumID)
);
```

```
CREATE TABLE IF NOT EXISTS FacilitatorClassAttendance (
  topicName
                                                      TEXT,
  date
                                                      TIMESTAMP,
  siteName
                                                      TEXT,
  facilitatorID
                                                      INT,
  PRIMARY KEY (topicName, date, siteName, facilitatorID),
  FOREIGN KEY (topicName, date, siteName) REFERENCES ClassOffering(topicName, date, siteName),
  FOREIGN KEY (facilitatorID) REFERENCES Facilitators (facilitatorID)
);
CREATE TABLE IF NOT EXISTS ParticipantClassAttendance (
  topicName
                                                      TEXT,
  date
                                                      TIMESTAMP,
  siteName
                                                      TEXT,
  participantID
                                                      INT,
  PRIMARY KEY (topicName, date, siteName, participantID),
  FOREIGN KEY (topicName, date, siteName) REFERENCES ClassOffering(topicName, date, siteName),
  FOREIGN KEY (participantID) REFERENCES Participants (participantID)
);
CREATE TABLE IF NOT EXISTS FacilitatorLanguage (
  facilitatorID
                                                      INT,
  lang
                                                      TEXT,
  level
                                                      LEVELTYPE
                                                                               NOT NULL,
  PRIMARY KEY (facilitatorID, lang, level),
  FOREIGN KEY (facilitatorID) REFERENCES Facilitators (facilitatorID),
  FOREIGN KEY (lang) REFERENCES Languages (lang)
);
```

```
CREATE TABLE IF NOT EXISTS ParticipantOutOfHouseSite (
    outOfHouseID INT,
    siteName TEXT,
    PRIMARY KEY (outOfHouseID, siteName),
    FOREIGN KEY (outOfHouseID) REFERENCES OutOfHouse(outOfHouseID),
    FOREIGN KEY (siteName) REFERENCES Sites(siteName)
);
```

Forms and Related Tables

```
CREATE TABLE IF NOT EXISTS ZipCode (
 zipCode
                                                           INT
                                                                                      UNIQUE,
 city
                                                           TEXT
                                                                                      NOT NULL,
 state
                                                           STATES
                                                                                      NOT NULL,
 PRIMARY KEY (zipCode)
);
CREATE TABLE IF NOT EXISTS Addresses (
  addressID
                                                           SERIAL
                                                                                      NOT NULL
                                                                                                 UNIQUE,
  addressNumber
                                                           INT,
  aptInfo
                                                           TEXT,
                                                           TEXT
  street
                                                                                      NOT NULL,
  zipCode
                                                           INT
                                                                                      NOT NULL,
  PRIMARY KEY (addressID),
  FOREIGN KEY (zipCode) REFERENCES ZipCode (zipCode)
);
```

```
CREATE TABLE IF NOT EXISTS Forms (
  formID
                                                      SERIAL
                                                                                NOT NULL
                                                                                              UNIQUE,
  addressID
                                                      INT,
  empolyeeSignedDate
                                                      DATE
                                                                                NOT NULL
                                                                                             DEFAULT NOW(),
  employeeID
                                                      INT,
  PRIMARY KEY (formID),
  FOREIGN KEY (addressID) REFERENCES Addresses (addressID),
  FOREIGN KEY (employeeID) REFERENCES Employees (EmployeeID)
);
CREATE TABLE IF NOT EXISTS FormPhoneNumbers (
 formID INT,
 phoneNumber TEXT,
 phoneType PHONETYPE,
  PRIMARY KEY (formID, phoneNumber),
  FOREIGN KEY (formID) REFERENCES Forms (formID)
);
CREATE TABLE IF NOT EXISTS ParticipantsFormDetails (
  participantID
                                                      INT,
  formID
                                                      INT,
  PRIMARY KEY (participantID, formID),
  FOREIGN KEY (participantID) REFERENCES Participants (participantID),
  FOREIGN KEY (formID) REFERENCES Forms (formID)
);
```

```
CREATE TABLE IF NOT EXISTS SelfReferral (
  selfReferralID
                                                      INT,
  referralSource
                                                      TEXT,
  hasInvolvmentCPS
                                                      BOOLEAN,
  hasAttendedPEP
                                                      BOOLEAN,
  reasonAttendingPEP
                                                      TEXT.
  dateFirstCall
                                                      DATE,
  returnClientCallDate
                                                      DATE,
  tentativeStartDate
                                                      DATE,
  classAssignedTo
                                                      TEXT,
  introLetterMailedDate
                                                      DATE.
  Notes
                                                      TEXT,
  PRIMARY KEY (selfReferralID),
  FOREIGN KEY (selfReferralID) REFERENCES Forms (formID)
);
CREATE TABLE IF NOT EXISTS Surveys (
 surveyID
                                                      INT,
  materialPresentedScore
                                                      INT,
  presTopicDiscussedScore
                                                      INT,
  presOtherParentsScore
                                                      INT,
  presChildPerspectiveScore
                                                      INT,
  practiceInfoScore
                                                      INT,
  recommendScore
                                                      INT,
  suggestedFutureTopics
                                                      TEXT,
  comments
                                                      TEXT,
  PRIMARY KEY (surveyID),
  FOREIGN KEY (surveyID) REFERENCES Forms (formID)
);
```

```
CREATE TABLE IF NOT EXISTS AgencyReferral (
  agencyReferralID
                                                      INT,
  secondaryPhone
                                                      TEXT,
  reason
                                                      TEXT,
  hasAgencyConstentForm
                                                      BOOLEAN,
  addtionalInfo
                                                      TEXT,
  program
                                                      PARENTINGPROGRAM,
  hasSpecialNeeds
                                                      BOOLEAN,
  hasSubstanceAbuseHistory
                                                      BOOLEAN,
  hasInvolvmentCPS
                                                      BOOLEAN,
  isPregnant
                                                      BOOLEAN,
  hasIQDoc
                                                      BOOLEAN,
  hasMentalHeath
                                                      BOOLEAN,
  hasDomesticViolenceHistory
                                                      BOOLEAN,
  childrenLiveWithIndivdual
                                                      BOOLEAN,
  dateFirstContact
                                                      DATE,
  meansOfContact
                                                      TEXT,
  dateOfInitialMeet
                                                      TIMESTAMP,
  location
                                                      TEXT,
  comments
                                                      TEXT,
  PRIMARY KEY (agencyReferralID),
  FOREIGN KEY (agencyReferralID) REFERENCES Forms(formID)
);
```

CREATE TABLE IF NOT EXISTS IntakeInformation	(
intakeInformationID	INT,
secondaryPhone	TEXT,
occupation	TEXT,
religion	TEXT,
ethnicity	TEXT,
handicapsOrMedication	TEXT,
lastYearOfSchoolCompleted	TEXT,
hasSubstanceAbuseHistory	BOOLEAN,
substanceAbuseDescription	TEXT,
timeSeparatedFromChildren	TEXT,
timeSeparatedFromPartner	TEXT,
relationshipToOtherParent	TEXT,
hasParentingPartnershipHistory	BOOLEAN,
hasInvolvmentCPS	BOOLEAN,
previouslyInvolvedWithCPS	TEXT,
isMandatedToTakeClass	BOOLEAN,
mandatedByWhom	TEXT,
reasonForAttendence	TEXT,
safeParticipate	TEXT,
preventativeBehaviors	TEXT,
attendedOtherParentingClasses	BOOLEAN,
previousClassInfo	TEXT,
wasVictim	BOOLEAN,
formOfChildhoodAbuse	TEXT,
hasHadTherapy	BOOLEAN,

f	FeelStillHasIssuesFromChildAbuse	TEXT,
n	nostImportantLikeToLearn	TEXT,
h	nasDomesticViolenceHistory	BOOLEAN,
h	nasDiscussedDomesticViolence	TEXT,
h	nasHistoryOfViolenceInOriginFamily	BOOLEAN,
h	nasHistoryOfViolenceInNuclearFamily	BOOLEAN,
C	ordersOfProtectionInvolved	BOOLEAN,
r	reasonForOrdersOfProtection	TEXT,
h	nasBeenArrested	BOOLEAN,
h	nasBeenConvicted	BOOLEAN,
r	reasonForArrestOrConviction	TEXT,
h	nasJailRecord	BOOLEAN,
h	nasPrisonRecord	BOOLEAN,
C	offenseForJailOrPrison	TEXT,
C	currentlyOnParole	BOOLEAN,
C	onParoleForWhatOffense	TEXT,
F	prpFormSignedDate	DATE,
Þ	ptpEnrollmentSignedDate	DATE,
F	otpConstentReleaseFormSignedDate	DATE,
E	PRIMARY KEY (intakeInformationID),	
E	FOREIGN KEY (intakeInformationID) REFERENCES	
For	rms(formID)	
);		

```
CREATE TABLE IF NOT EXISTS ContactAgencyAssociatedWithReferred (
  contactAgencyID INT,
  agencyReferralID INT,
  isMainContact BOOLEAN,
  PRIMARY KEY (contactAgencyID, agencyReferralID),
  FOREIGN KEY (contactAgencyID) REFERENCES ContactAgencyMembers(contactAgencyID),
  FOREIGN KEY (agencyReferralID) REFERENCES AgencyReferral(agencyReferralID)
);
CREATE TABLE IF NOT EXISTS Family (
  familyMembersID INT,
 formID INT,
  PRIMARY KEY (familyMembersID, formID),
  FOREIGN KEY (familyMembersID) REFERENCES FamilyMembers (familyMemberID),
  FOREIGN KEY (formID) REFERENCES Forms (formID)
);
CREATE TABLE IF NOT EXISTS ParticipantsIntakeLanguages (
 intakeInformationID INT,
 lang TEXT,
  PRIMARY KEY (intakeInformationID, lang),
  FOREIGN KEY (intakeInformationID) REFERENCES IntakeInformation(intakeInformationID),
  FOREIGN KEY (lang) REFERENCES Languages (lang)
);
CREATE TABLE IF NOT EXISTS EmergencyContactDetail (
  emergencyContactID INT,
 intakeInformationID INT,
  PRIMARY KEY (emergencyContactID, intakeInformationID),
  FOREIGN KEY (emergencyContactID) REFERENCES EmergencyContacts (emergencyContactID),
  FOREIGN KEY (intakeInformationID) REFERENCES IntakeInformation(intakeInformationID)
);
```