

El Centro Cultural

Dec. 10, 2023

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1: Scope of Work

1.1 Organization

Nestled in the heart of Cameron Park, Brownsville, Texas, El Centro Cultural is more than just a community center; it's a beacon of hope and a catalyst for positive change. Since its inception in 1993, this non-profit organization has been dedicated to enhancing the lives of its residents by offering a diverse range of services, spanning education, family support, healthcare access, employment opportunities, and literacy promotion. Its primary focus is on improving community welfare.

El Centro Cultural operates as a non-profit organization with a mission to enhance community welfare rather than generate profit. Its primary source of revenue is charitable donations, grants from organizations, and potentially government funding for specific programs or projects. The organization may also organize community events or fundraisers to generate supplementary revenue. These funds are reinvested into the organization to continue offering vital services to the community.

The primary customers of El Centro Cultural are the residents of Cameron Park and the surrounding areas. The organization actively engages with the community through workshops, gatherings, and events. These events not only create a sense of belonging but also serve as opportunities for the center to understand and address the ever-evolving needs of the residents, ensuring its services remain relevant and effective.

El Centro Cultural may form partnerships with local educational institutions, healthcare providers, and employers to facilitate their programs and services. These collaborations enable the center to expand its offerings and provide more comprehensive support to the community. These partnerships are instrumental in achieving El Centro Cultural's mission of community empowerment and well-being.

1.2 System Description

El Centro Cultural requires assistance in organizing the numerous organizations, partnerships, and community work taking place in their small park. The community center is managed by two managers who need help with information organization. They oversee individuals who are court-ordered to volunteer by the county, as well as community volunteers who participate for school or community support reasons. Besides receiving assistance for the center's operations, the center offers help to the community. Each community member requires support in various ways, so it is essential to document their information and reasons for visiting the community center.

This community center provides a wide range of services catering to students, adults, and children. Many of these services are provided by other organizations, events, or community volunteers. Keeping an up-to-date record of available services is crucial to assisting community members in finding the specific support they need. The list of organizations and partners visiting the community center is extensive, with a mix of different and similar organizations that come to help the community or request assistance from other agencies.

Collaboration among agencies and other community partners often involves hosting events at the community center, offering aid to the community and those in need, as well as promoting their organizations through registrations and information about their services. The primary goal of the database project is to create a centralized system that streamlines data management, enhances operational efficiency, and empowers El Centro Cultural to better serve the community. This project is crucial for the organization's ability to maintain accurate records, track the impact of their programs, and strengthen their relationships with volunteers and partner agencies.

1.3 Sample Reports

1.3.1 Sample Report 1:

Centro Cultural provides opportunities for people of all ages and backgrounds to volunteer and contribute to local events and classes. Additionally, individuals fulfilling court-mandated community service can actively participate in initiatives that benefit the community.

Volunteers			
Name	Phone Number	Total hours volunteered	Grade
Johan Rodriguez	(956)426-0191	44	B
Laura Martinez	(956)122-4967	70	A
Maria Hernandez	(956)502-6730	36	B
Ana Morales	(956)784-0248	55	A
Rosa Irma	(956)092-1934	48	A

1.3.2 Sample Report 2:

Community members visit El Centro Cultural's office seeking various forms of assistance. The information that is gathered from their application, including their income and needs, is uploaded to the database and allows for easy analysis, making it faster and simpler to find the right partner organizations.

Community Members				
Name	Phone Number	Service Needed	Date Requested	Date Fulfilled
Maria Lopez	(956)555-6789	Health Screening	02/02/2020	02/05/2020
Carlos Ramirez	(956)876-4520	Counseling	04/01/2021	04/09/2021
Ana Vasques	(956)365-7103	Food	7/02/2022	07/02/2022
David Torres	(956)275-8501	Assistance with CHIP & Medicaid	09/20/2022	10/15/2022
Jasmin Venegas	(956)502-5713	Daycare	01/23/23	01/24/23

1.3.3 Sample Report 3:

This report will focus on the various events provided to the community. It will include the EventID, the event type, the month the event is hosted, the amount of services, and the number of members that attended.

Event				
Event ID	EventType	Month	# of Services	Number of Members
100	Educational Workshop	January	5	45
101	Job Fair	February	13	75
102	Health Fair	March	6	180
103	Summer Sports Camp	June	8	74
104	Summer Reading Program	July	16	40

1.3.4 Sample Report 4:

The following partner organizations aid El Centro Cultural by creating events and providing funds, resources, and volunteers to support the cause.

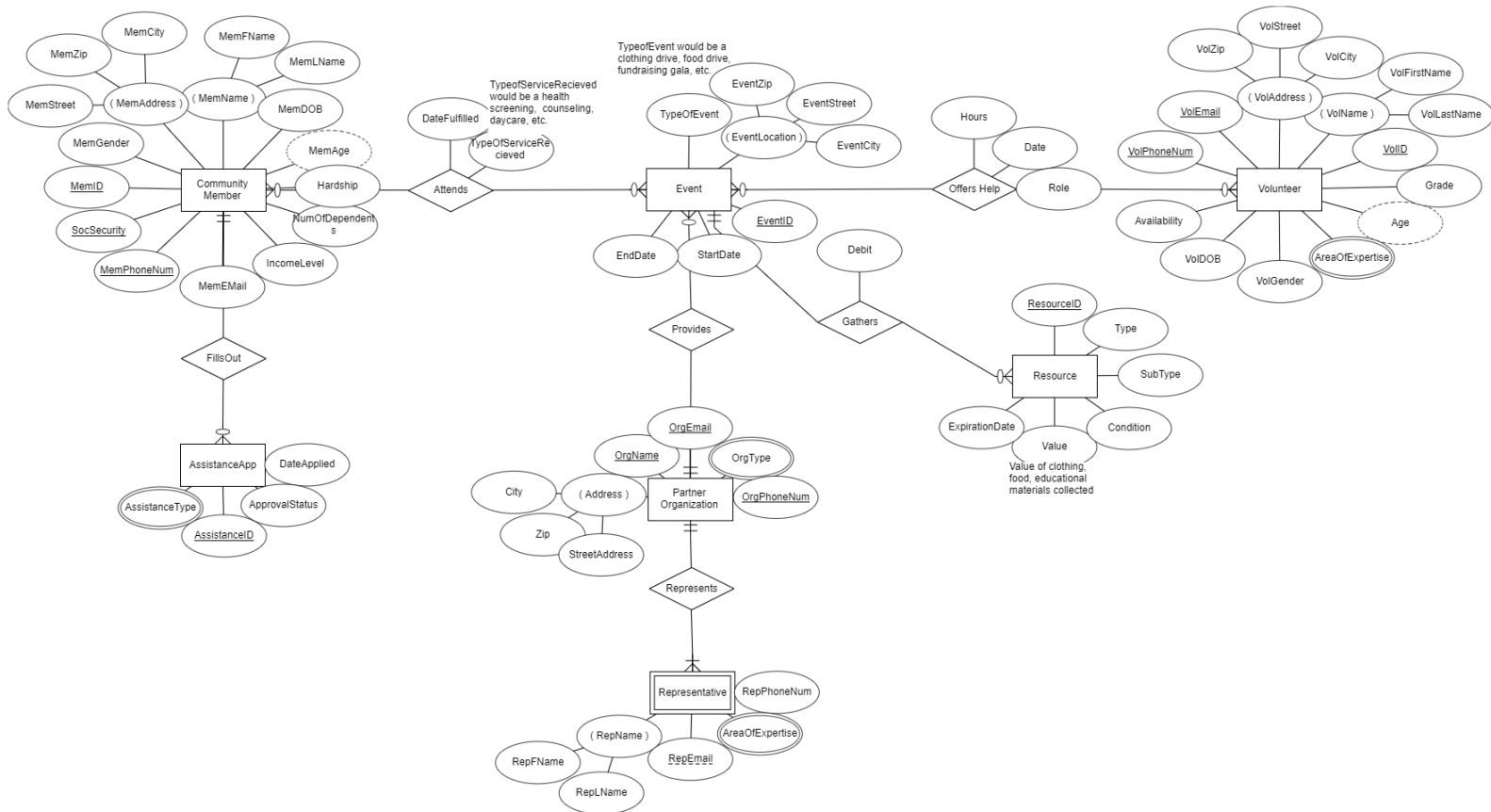
Partner Organization						
Agency	Type of Service	Amount of Events	Type of Event	Representative	Phone Number	Address
Star Plus Program	Educational Support	10	Educational Workshops	Araceli Guerrero	(956) 456 - 9723	1925 Iowa
County of Cameron	Healthcare Assistance	15	Health Clinics	Melissa Medrando	(956) 339 - 3075	35 Orange St.
Community Development	Childcare	10	Parenting Seminars	Alex Gutierres	(956)472-2960	4700 Rice Rd
County of Cameron	Food Distribution	25	Food Distribution	Annie M. Romero	(956) 399 - 3075	1102 S. Commerce
State of Texas	Clothing Assistance	8	Clothing Drives	Norma Cavazos	(956) 421 - 5531	601 W Sesame Dr.

1.3.5 Sample Report 5:

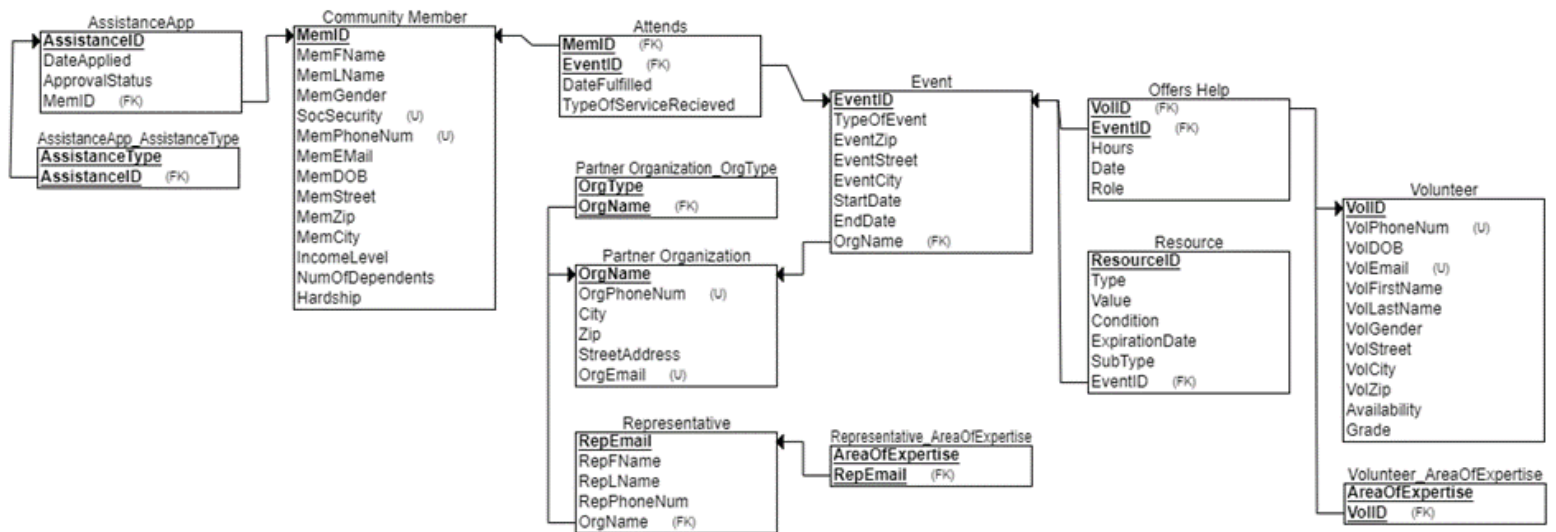
El Centro Cultural collects resources from other organizations, businesses, and schools with donations. It highlights the seamless integration of sponsor contributions into both community-driven initiatives and county-funded events, showcasing Centro Cultural's inclusive strategy for the support of the community.

Resource				
<u>ResourceID</u>	Volume	Host	Type	Subtype
13485678	300	Benavides Elementary School	School Supplies	Backpacks
56897012	150	St. Joseph Catholic Church	Food	Non-perishable Canned Foods
90187564	200	Sunrise Mall	Supplies	Toys and Gifts
12589647	100	Goodwill	Clothing	Winter Apparel
52497308	150	City of Brownsville	Medical Supplies	Informational Pamphlets and Glucose Meters

2: Conceptual Model



3: Relational Model



4: Normalization

Each table listed in section 4 is examined for the following violations:

1. 1NF: Absence of primary key, presence of multi-value attributes
2. 2NF: Presence of Partial dependency
3. 3NF: Presence of Transitive Dependency

4.1 Table: Community Member

MEMBER [MemID, MemFName, MemLName, MemGender, SocialSecurity, MemPhoneNum, MemEMail, MemDOB, MemStreet, MemZip, MemCity, IncLevel, NumOfDependents, Hardship]

Functional Dependencies:

1. MemID → MemFName, MemLName, MemGender, MemDOB, IncLevel
2. MemZip → MemCity
3. IncLevel, NumOfDependents → Hardship

1NF

The table was examined for the presence of the primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of MemID. The table/relation was examined for partial dependencies. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. Tables 2 and 3 were found to have Transitive Dependencies. Therefore they're decomposed and named as follows:

1. COMMUNITY_MEM [MemID, MemFName, MemLName, MemGender, SocialSecurity, MemDOB, MemZip, NumOfDependents, IncLevel]
2. MEM_LOCATION [MemZip, MemCity]
3. MEM_INCOME [IncLevel, NumOfDependents, Hardship]

4.2 Table: Assistance Application

ASSISTANCE [AssistanceID, DateApplied, ApprovalStatus, MemID(FK)]

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of AssistanceID. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. This table did not have any transitive dependencies therefore decomposition was not necessary. The following table is in 3rd normal form:

1. ASSISTANCE_APP[AssistanceID, DateApplied, ApprovalStatus, MemID(FK)]

4.3 Table: Event

EVENT[EventID, StartDate, EndDate, TypeOfEvent, EventZip, EventStreet, EventCity, OrgName(FK)]

Functional Dependencies:

1. EventID → StartDate, EndDate, TypeOfEvent, EventZip, EventStreet, EventCity
2. EventZip → EventCity

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of only EventID. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. Table 2 was found to have a Transitive Dependency. Therefore it's decomposed and named as follows:

1. EVENT_INFO[EventID, StartDate, EndDate, TypeOfEvent, EventZip, EventStreet, OrgName(FK)]
2. EVENT_LOCATION[EventZip, EventCity]

4.4 Table: Volunteer

VOLUNTEER[VolID, VolPhoneNum, VolDOB, VolEmail, VolFirstName, VolLastName, VolGender, VolStreet, VolCity, VolZip, Availability, Grade]

Functional Dependencies:

1. VolID → VolPhoneNum, VolDOB, VolEmail, VolFirstName, VolLastName, VolGender, VolStreet, VolCity, VolZip, Availability, Grade
2. VolZip → VolCity

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of VolID, VolPhoneNum, and VolEmail. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. Table 2 was found to have a Transitive Dependency. Therefore it's decomposed and named as follows:

1. VOL_IDENTIFICATION[VolID, VolPhoneNum, VolDOB, VolEmail, VolFirstName, VolLastName, VolGender, VolStreet, VolZip, Availability, Grade]
2. VOL_LOCATION[VolZip VolCity]

4.5 Table: Resource

RESOURCE[ResourceID, Type, SubType Value, ResourceCondition, ExpirationDate, EventID(FK)]

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of only ResourceID. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. This table did not have any transitive dependencies therefore decomposition was not necessary. The following table is in 3rd normal form:

1. RESOURCE_ID[ResourceID, Type, SubType Value, ResourceCondition, ExpirationDate, EventID(FK)]

4.6 Table: Partner Organization

PARTNERORGANIZATION[OrgName, OrgPhoneNum, City, Zip, StreetAddress, OrgEmail]

Functional Dependencies:

1. OrgName → OrgPhoneNum, City, Zip, StreetAddress, OrgEmail
2. Zip → City

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of OrgName, OrgPhoneNum, and OrgEmail. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. Table 2 was found to have a Transitive Dependency. Therefore it's decomposed and named as follows:

1. PARTNER_ORG [OrgName, OrgPhoneNum, Zip, StreetAddress, OrgEmail]
2. ORG_LOCATION [Zip, City]

4.7 Table: Representative

REPRESENTATIVE[RepEmail, RepFName, RepLName, RepPhoneNum, OrgName(FK)]

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of only RepEmail. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. This table did not have any transitive dependencies therefore decomposition was not necessary. The following table is in 3rd normal form:

1. REP[RepEmail, RepFName, RepLName, RepPhoneNum, OrgName(FK)]

4.8 Table: AssistanceApp_AssistanceType

ASSISTANCEAPP_TYPE[AssistanceID(FK), AssistanceType]

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of AssistanceType and AssistanceID. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. This table did not have any transitive dependencies therefore decomposition was not necessary. The following table is in 3rd normal form:

1. ASSISTANCEID [AssistanceID(FK), AssistanceType]

4.9 Table: Attends

ATTENDS [MemID (FK), EventID(FK), DateFulfilled, TypeOfServiceRecieved]

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of MemID and EventID. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. This table did not have any transitive dependencies therefore decomposition was not necessary. The following table is in 3rd normal form:

1. MEM_ATTENDS [MemID(FK), EventID(FK), DateFulfilled, TypeOfServiceRecieved]

4.10 Table: PartnerOrg_OrgType

PARTNERORG_ORGTYPE [OrgName(FK), OrgType]

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of OrgType and OrgName. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. Because there is at least 1 primary key, this table could not have any transitive dependencies. Therefore decomposition was not necessary. The following table is in 3rd normal form:

1. ORGNAME_ORGTYPE [OrgName(FK), OrgType]

4.11 Table: Vol_Role

OFFERS_HELP[VolID(FK), EventID(FK), Hours, Date, Role]

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of VolID and EventID. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. Because there is at least 1 primary key, this table could not have any transitive dependencies. Therefore decomposition was not necessary. The following table is in 3rd normal form:

1. VOL_ROLE[VolID(FK), EventID(FK), Hours, Date, Role]

4.12 Table: Rep_AreaOfExpertise

REPRESENTATIVE_EXPERTISE [RepEmail(FK), AreaOfExpertise]

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of RepEmail and AreaOfExpertise. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. Because there is at least 1 primary key, this table could not have any transitive dependencies. Therefore decomposition was not necessary. The following table is in 3rd normal form:

1. REP_EXPERTISE [RepEmail(FK), AreaOfExpertise]

4.13 Table: Vol_AreaOfExpertise

VOLUNTEER_EXPERTISE [VolIID(FK), AreaOfExpertise]

1NF

The table was examined for the presence of primary key and any multi-value attributes. The table has a primary key and none of the attributes are multivalued. Therefore the table is already in 1st normal form.

2NF

Full key consists of AreaOfExpertise and VolIID. The table/relation was examined for partial dependencies and no partial dependencies were found. The table is already in 2nd normal form.

3NF

3rd normal form requires examining tables for any transitive functional dependencies. Because there is at least 1 primary key, this table could not have any transitive dependencies. Therefore decomposition was not necessary. The following table is in 3rd normal form:

1. VOL_EXPERTISE [VolIID(FK), AreaOfExpertise]

Resulting Relational Tables:

1. COMMUNITY_MEM

- MemID: MemID is the unique identification number for community members.
- MemFName: MemFName represents the first name of the community member.
- MemLName: MemLName represents the last name of the community member.
- MemGender: MemGender represents the gender of the community member.
- SocialSecurity: SocialSecurity is the social security number of the community member.
- MemDOB: MemDOB represents the date of birth of the community member.
- MemZip: MemZip represents the zip code of the community member.
- NumOfDependents: NumOfDependents represents the number of dependents of the community member.
- IncLevel: IncLevel represents the income level of the community member.

Field	Type	Null	Key	Default
MemID	CHAR(7)	NO	PRI	NULL
MemFName	VARCHAR(8)	YES		NULL
MemLName	VARCHAR(12)	YES		NULL
MemGender	ENUM('M','F')	YES		NULL
SocialSecurity	CHAR(11)	YES		NULL
MemDOB	DATE	YES		NULL
MemZip	CHAR(5)	NO	PRI	NULL
NumOfDependents	INT	NO	PRI	NULL
IncLevel	MEDIUMINT	NO	PRI	NULL

2. MEM_LOCATION

- MemZip: MemZip represents the zip code of the community member.
- MemCity: MemCity represents the city of the community member.

Field	Type	Null	Key	Default
MemZip	CHAR(5)	NO	PRI	NULL
MemCity	VARCHAR(11)	YES		NULL

“MemZip” is the foreign key and references the MemZip column in the COMMUNITY_MEM table.

3. MEM_INCOME

- IncLevel: IncLevel represents the income level of the community member.
- NumOfDependents: NumOfDependents represents the number of dependents of the community member.
- Hardship: Hardship represents the level of hardship that a community member is experiencing.

Field	Type	Null	Key	Default
IncLevel	INT	NO	PRI	NULL
NumOfDependents	INT	NO	PRI	NULL
Hardship	VARCHAR(6)	YES		NULL

“IncLevel” is the foreign key and references the IncLevel column in the COMMUNITY_MEM table.

“NumOfDependents” is the foreign key and references the NumOfDependents column in the COMMUNITY_MEM table

4. ASSISTANCE_APP

- AssistanceID: AssistanceID is the unique identification number for assistance applications.
- DateApplied: DateApplied represents the date when the assistance application was submitted.

- **ApprovalStatus:** ApprovalStatus represents the approval status of the assistance application.
- **MemID:** MemID is the foreign key referencing the member associated with the assistance application.

Field	Type	Null	Key	Default
AssistanceID	INT	NO	PRI	NULL
DateApplied	DATE	YES		NULL
ApprovalStatus	ENUM('Y','N')	YES		NULL
MemID	INT	YES		NULL

“MemID” is the foreign key and references the MemID column in COMMUNITY_MEM table.

5. EVENT_INFO

- **EventID:** EventID is the unique identification number for events.
- **StartDate:** StartDate represents the date when the event starts.
- **EndDate:** EndDate represents the date when the event ends.
- **TypeOfEvent:** TypeOfEvent represents the type of the event.
- **EventZip:** EventZip represents the zip code of the event.
- **EventStreet:** EventStreet represents the street of the event.
- **OrgName:** OrgName is the foreign key referencing the partner organization associated with the event.

Field	Type	Null	Key	Default
EventID	INT	NO	PRI	NULL
StartDate	DATE	YES		NULL
EndDate	DATE	YES		NULL
TypeOfEvent	VARCHAR(22)	YES		NULL
EventZip	CHAR(5)	NO	PRI	NULL

EventStreet	VARCHAR(19)	YES		NULL
OrgName	VARCHAR(50)	YES		NULL

“OrgName” is the foreign key and references the OrgName column in the PARTNER_ORG table.

6. EVENT_LOCATION

- EventZip: EventZip represents the zip code of the event.
- EventCity: EventCity represents the city of the event.

Field	Type	Null	Key	Default
EventZip	CHAR(5)	NO	PRI	NULL
EventCity	VARCHAR(11)	YES		NULL

“EventZip” is the foreign key and references the EventZip column in the EVENT_INFO table.

7. VOL_ID

- VolID: VolID is the unique identification number for volunteers.
- VolPhoneNum: VolPhoneNum represents the phone number of the volunteer.
- VolDOB: VolDOB represents the date of birth of the volunteer.
- VolEmail: VolEmail represents the email of the volunteer.
- VolFirstName: VolFirstName represents the first name of the volunteer.
- VolLastName: VolLastName represents the last name of the volunteer.
- VolGender: VolGender represents the gender of the volunteer.
- VolStreet: VolStreet represents the street address of the volunteer’s residence.
- VolZip: VolZip represents the zip code of the volunteer’s residence.
- Availability: Availability represents the availability of the volunteer (Weekdays, Weekends, Evenings, etc.).

- **Grade:** The grade determines the score a volunteer gets when considering factors like punctuality, trustworthiness, effort, etc. This determines their likelihood of being asked to return for more events.

Field	Type	Null	Key	Default
VolID	INT	NO	PRI	NULL
VolPhoneNum	CHAR(13)	YES		NULL
VolDOB	DATE	YES		NULL
VolEmail	VARCHAR(27)	YES		NULL
VolFirstName	VARCHAR(9)	YES		NULL
VolLastName	VARCHAR(11)	YES		NULL
VolGender	ENUM(' Male', ' Female')	YES		NULL
VolStreet	VARCHAR(14)	YES		NULL
VolZip	INT	NO	PRI	NULL
Availability	VARCHAR(10)	YES		NULL
Grade	ENUM('A', 'B', 'C')	YES		NULL

8. VOL_LOCATION

- **VolZip:** VolZip represents the zip code of the volunteer.
- **VolCity:** VolCity represents the city of the volunteer.

Field	Type	Null	Key	Default
VolZip	CHAR(5)	NO	PRI	NULL
VolCity	VARCHAR(11)	YES		NULL

“VolZip” is the foreign key and references the VolZip column in the VOL_ID table.

9. RESOURCE_ID

- ResourceID: ResourceID is the unique identification number for resources.
- Type: Type represents the type of the resource.
- SubType: SubType represents the subtype of the resource.
- Value: Value represents the value of the resource.
- ResourceCondition: ResourceCondition represents the condition of the resource(New, Used, Non-expired, etc.)
- ExpirationDate: ExpirationDate represents the expiration date of the resource.
- EventID: EventID is the unique ID for each event hosted

Field	Type	Null	Key	Default
ResourceID	INT	NO	PRI	NULL
Type	VARCHAR(21)	YES		NULL
SubType	VARCHAR(42)	YES		NULL
Value	INT	YES		NULL
ResourceCondition	VARCHAR(11)	YES		NULL
ExpirationDate	DATE	YES		NULL
EventID	INT	YES		NULL

“EventID” is the foreign key and references the EventID column in EVENT_INFO table.

10.PARTNER_ORG

- OrgName: OrgName is the unique identification name for partner organizations.
- OrgPhoneNum: OrgPhoneNum represents the phone number of the partner organization.
- Zip: Zip represents the zip code of the partner organization.
- StreetAddress: StreetAddress represents the street address of the partner organization.
- OrgEmail: OrgEmail represents the email of the partner organization.

Field	Type	Null	Key	Default
OrgName	VARCHAR(50)	NO	PRI	NULL
OrgPhoneNum	CHAR(13)	YES		NULL
Zip	CHAR(5)	NO	PRI	NULL
StreetAddress	VARCHAR(25)	YES		NULL
OrgEmail	VARCHAR(32)	YES		NULL

11.ORG_LOCATION

- Zip: Zip represents the zip code of the organization.
- City: City represents the city of the organization.

Field	Type	Null	Key	Default
Zip	CHAR(5)	NO	PRI	NULL
City	VARCHAR(11)	YES		NULL

“Zip” is the foreign key and references the Zip column in the PARTNER_ORG table.

12. REP

- RepEmail: RepEmail represents the email of the representative.
- RepFName: RepFName represents the first name of the representative.
- RepLName: RepLName represents the last name of the representative.
- RepPhoneNum: RepPhoneNum represents the phone number of the representative.
- AreaOfExpertise: AreaOfExpertise represents the area of expertise of the representative.
- OrgName: OrgName is the foreign key referencing the partner organization associated with the representative.

Field	Type	Null	Key	Default
RepEmail	VARCHAR(32)	NO	PRI	NULL
RepFName	VARCHAR(20)	YES		NULL
RepLName	VARCHAR(20)	YES		NULL
RepPhoneNum	CHAR(13)	YES		NULL
OrgName	VARCHAR(50)	YES		NULL

“OrgName” is the foreign key and references the OrgName column in the PARTNER_ORG table.

13. ASSISTANCE_ID

- AssistanceID: AssistanceID is the foreign key referencing assistance applications.
- AssistanceType: AssistanceType represents the type of assistance.

Field	Type	Null	Key	Default
AssistanceID	INT	NO	PRI	NULL
AssistanceType	VARCHAR(31)	NO	PRI	NULL

“AssistanceID” is the foreign key and references the AssistanceID column in the ASSISTANCE_APP table.

14.MEM_ATTENDS

- MemID: MemID represents the member ID.
- EventID: EventID represents the event ID.
- DateFulfilled: DateFulfilled represents the date when the service was fulfilled.
- TypeOfServiceReceived: TypeOfServiceReceived represents the type of service received by the member at the event.

Field	Type	Null	Key	Default
MemID	INT	NO	PRI	NULL
EventID	INT	NO	PRI	NULL
DateFulfilled	DATE	YES		NULL

TypeOfService Received	VARCHAR(19)	YES		NULL
---------------------------	-------------	-----	--	------

“MemID” is the foreign key and references the MemID column in COMMUNITY_MEM table.

“EventID” is the foreign key and references the EventID column in the EVENT_INFO table.

15. ORGNAME_ORGTYPE

- OrgName: OrgName is the foreign key referencing the name of the organization.
- OrgType: OrgType represents the type of organization.

Field	Type	Null	Key	Default
OrgName	VARCHAR(40)	NO	PRI	NULL
OrgType	VARCHAR(21)	NO	PRI	NULL

“OrgName” is the foreign key and references the OrgName column in PARTNER_ORG table.

16. VOL_ROLE

- VolID: VolID represents the unique identification number of the volunteer offering help.
- EventID: EventID represents the unique identification number of the event where help is offered.
- Hours: Hours represent the number of hours the volunteer is offering to help during the event.
- Date: Date represents the date on which the volunteer is offering help during the event.
- Role: Role represents the specific role or task that the volunteer is offering to perform during the event.

Field	Type	Null	Key	Default
VolID	INT	NO	PRI	NULL
EventID	INT	NO	PRI	NULL
Hours	INT	YES		NULL

Date	DATE	YES		NULL
Role	VARCHAR(30)	YES		NULL

“VolID” is the foreign key and references the VolID column in the VOL_ID table.

“EventID” is the foreign key and references the EventID column in the EVENT_INFO table.

17.REP_EXPERTISE

- RepEmail: RepEmail is the foreign key referencing the Representative table.
- AreaOfExpertise: AreaOfExpertise represents the area of expertise of the volunteer.

Field	Type	Null	Key	Default
RepEmail	VARCHAR(21)	NO	PRI	NULL
AreaOfExpertise	VARCHAR(32)	NO	PRI	NULL

“RepEmail” is the foreign key and references the RepEmail column in the REP table.

18.VOL_EXPERTISE

- VolID: VolID is the foreign key referencing the volunteer tables.
- AreaOfExpertise: AreaOfExpertise represents the area of expertise of the volunteer.

Field	Type	Null	Key	Default
VolID	INT	NO	PRI	NULL
AreaOfExpertise	VARCHAR(19)	NO	PRI	NULL

“VolID” is the foreign key and references the VolID column in the VOL_ID table.

5: Database Implementation

All Tables:

```
mysql> show tables;
+-----+
| Tables_in_project_3 |
+-----+
| ASSISTANCE_APP        |
| ASSISTANCE_ID         |
| COMMUNITY_MEM        |
| EVENT_INFO           |
| EVENT_LOCATION       |
| MEM_ATTENDS          |
| MEM_INCOME           |
| MEM_LOCATION         |
| OFFERS_HELP          |
| ORGNAME_ORGTYPE      |
| ORG_LOCATION         |
| PARTNER_ORG          |
| REP                  |
| REP_EXPERTISE        |
| RESOURCE_ID          |
| VOL_EXPERTISE        |
| VOL_ID               |
| VOL_LOCATION         |
+-----+
18 rows in set (0.00 sec)
```

A. Data Structures:

```
mysql> DESC ASSISTANCE_APP;
```

Field	Type	Null	Key	Default	Extra
AssistanceID	int	NO	PRI	NULL	
DateApplied	date	YES		NULL	
ApprovalStatus	enum('Y','N')	YES		NULL	
MemID	int	YES	MUL	NULL	

4 rows in set (0.00 sec)

```
mysql> DESC ASSISTANCE_ID;
```

Field	Type	Null	Key	Default	Extra
AssistanceID	int	NO	PRI	NULL	
AssistanceType	varchar(31)	NO	PRI	NULL	

2 rows in set (0.00 sec)

```
mysql> DESC COMMUNITY_MEM;
```

Field	Type	Null	Key	Default	Extra
MemID	int	NO	PRI	NULL	
MemFName	varchar(8)	YES		NULL	
MemLName	varchar(12)	YES		NULL	
MemGender	enum('M','F')	YES		NULL	
SocialSecurity	char(11)	YES		NULL	
MemDOB	date	YES		NULL	
MemZip	char(5)	YES	MUL	NULL	
NumOfDependents	int	YES	MUL	NULL	
IncLevel	int	YES	MUL	NULL	

9 rows in set (0.00 sec)

```
mysql> DESC EVENT_INFO;
```

Field	Type	Null	Key	Default	Extra
EventID	int	NO	PRI	NULL	
StartDate	date	YES		NULL	
EndDate	date	YES		NULL	
TypeOfEvent	varchar(22)	YES		NULL	
EventZip	char(5)	YES	MUL	NULL	
EventStreet	varchar(19)	YES		NULL	
OrgName	varchar(50)	YES	MUL	NULL	

7 rows in set (0.00 sec)

```
mysql> DESC EVENT_LOCATION;
```

Field	Type	Null	Key	Default	Extra
EventZip	char(5)	NO	PRI	NULL	
EventCity	varchar(11)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> DESC MEM_ATTENDS;
```

Field	Type	Null	Key	Default	Extra
MemID	int	NO	PRI	NULL	
EventID	int	NO	PRI	NULL	
DateFulfilled	date	YES		NULL	
TypeOfServiceReceived	varchar(19)	YES		NULL	

4 rows in set (0.00 sec)


```
mysql> DESC MEM_INCOME;
```

Field	Type	Null	Key	Default	Extra
IncLevel	int	YES	MUL	NULL	
NumOfDependents	int	YES	MUL	NULL	
Hardship	varchar(6)	YES		NULL	

```
3 rows in set (0.01 sec)
```

```
mysql> DESC MEM_LOCATION;
```

Field	Type	Null	Key	Default	Extra
MemZip	char(5)	NO	PRI	NULL	
MemCity	varchar(11)	YES		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> DESC ORGNAME_ORGTYPE;
```

Field	Type	Null	Key	Default	Extra
OrgName	varchar(40)	NO	PRI	NULL	
OrgType	varchar(21)	NO	PRI	NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> DESC ORG_LOCATION;
```

Field	Type	Null	Key	Default	Extra
Zip	char(5)	NO	PRI	NULL	
City	varchar(11)	YES		NULL	

```
2 rows in set (0.01 sec)
```

```
mysql> DESC PARTNER_ORG;
```

Field	Type	Null	Key	Default	Extra
OrgName	varchar(50)	NO	PRI	NULL	
OrgPhoneNum	char(13)	YES		NULL	
Zip	char(5)	YES	MUL	NULL	
StreetAddress	varchar(25)	YES		NULL	
OrgEmail	varchar(32)	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> DESC REP;
```

Field	Type	Null	Key	Default	Extra
RepEmail	varchar(32)	NO	PRI	NULL	
RepFName	varchar(10)	YES		NULL	
RepLName	varchar(9)	YES		NULL	
RepPhoneNum	char(13)	YES		NULL	
OrgName	varchar(50)	YES	MUL	NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> DESC REP_EXPERTISE;
```

Field	Type	Null	Key	Default	Extra
AreaOfExpertise	varchar(21)	NO	PRI	NULL	
RepEmail	varchar(32)	NO	PRI	NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> DESC RESOURCE_ID;
```

Field	Type	Null	Key	Default	Extra
ResourceID	int	NO	PRI	NULL	
Type	varchar(21)	YES		NULL	
SubType	varchar(42)	YES		NULL	
Value	int	YES		NULL	
ResourceCondition	varchar(11)	YES		NULL	
ExpirationDate	date	YES		NULL	
EventID	int	YES	MUL	NULL	

```
7 rows in set (0.00 sec)
```

```
mysql> DESC VOL_EXPERTISE;
```

Field	Type	Null	Key	Default	Extra
VolID	int	NO	PRI	NULL	
AreaOfExpertise	varchar(19)	NO	PRI	NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> DESC VOL_ID;
```

Field	Type	Null	Key	Default	Extra
VolID	int	NO	PRI	NULL	
VolPhoneNum	char(13)	YES		NULL	
VolDOB	date	YES		NULL	
VolEmail	varchar(27)	YES		NULL	
VolFirstName	varchar(9)	YES		NULL	
VolLastName	varchar(11)	YES		NULL	
VolGender	enum('Male','Female')	YES		NULL	
VolStreet	varchar(14)	YES		NULL	
VolZip	int	YES	MUL	NULL	
Availability	varchar(10)	YES		NULL	
Grade	enum('A','B','C')	YES		NULL	

```
11 rows in set (0.00 sec)
```

```
mysql> DESC VOL_LOCATION;
```

Field	Type	Null	Key	Default	Extra
VolZip	int	NO	PRI	NULL	
VolCity	varchar(11)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> DESC VOL_ROLE;
```

Field	Type	Null	Key	Default	Extra
VolID	int	NO	PRI	NULL	
EventID	int	NO	PRI	NULL	
Hours	int	YES		NULL	
Date	date	YES		NULL	
Role	varchar(24)	YES		NULL	

5 rows in set (0.00 sec)

B. Sample Data:

```
mysql> select * from ASSISTANCE_APP limit 10;
```

AssistanceID	DateApplied	ApprovalStatus	MemID
103570	2022-06-24	Y	2
123456	2023-12-05	Y	19
128358	2022-09-02	Y	3
167416	2023-02-24	Y	7
185347	2023-04-29	Y	9
198765	2023-11-08	Y	16
239485	2022-05-15	Y	1
309846	2023-07-22	Y	12
432189	2023-10-12	Y	14
459830	2022-12-02	N	4

```
10 rows in set (0.00 sec)
```

```
mysql> select * from ASSISTANCE_ID limit 10;
```

AssistanceID	AssistanceType
103570	Counseling
123456	Counseling
128358	Food Assistance
167416	Housing Assistance
185347	Utility Bill Assistance
198765	Transportation Assistance
239485	Medical Expense
309846	Medical Expenses
432189	Housing Assistance
459830	Assistance with CHIP & Medicaid

```
10 rows in set (0.00 sec)
```

```
mysql> mysql> select * from COMMUNITY_MEM limit 10;
```

MemID	MemFName	MemLName	MemGender	SocialSecurity	MemDOB	MemZip	NumOfDependents	IncLevel
1	Maria	Lopez	F	128-83-6758	2000-05-15	78520	3	16000
2	Carlos	Ramirez	M	479-93-2914	1998-09-25	78501	2	14200
3	Ana	Vasques	F	570-28-5482	1992-02-12	78521	4	13920
4	David	Torres	M	478-68-1924	1989-03-21	78524	1	16470
5	Jasmin	Venegas	F	174-28-5829	1996-08-16	78550	5	21735
6	Michael	Rodriguez	M	690-25-2398	1990-02-18	78521	7	10000
7	Sophia	Pinales	F	567-89-0123	1982-06-10	78521	3	16000
8	Daniel	Reynolds	M	623-96-4547	1976-07-08	78501	1	28000
9	Noah	Chavez	M	542-74-3108	2010-05-06	78521	5	15000
10	Marcelo	Gamez	M	128-83-6759	2001-01-07	78520	3	18665

```
10 rows in set (0.00 sec)
```

```
mysql> mysql> select * from EVENT_INFO limit 10;
```

EventID	StartDate	EndDate	TypeOfEvent	EventZip	EventStreet	OrgName
100	2023-01-01	2023-04-01	Educational Workshop	78521	E 6th St	Star Plus
101	2023-02-01	2023-10-31	Job Fair	78521	1 Event Center	County of Cameron
102	2023-03-01	2023-07-01	Health Fair	78521	191 E Price Rd	Community Development
103	2023-06-01	2023-08-31	Summer Sports Camp	78521	1000 Sports Park	CC Food Distribution
104	2023-07-01	2023-08-31	Summer Reading Program	78521	2600 Central Blvd	State of Texas
105	2023-08-01	2023-09-30	Educational Seminar	78521	35 W Elizabeth St	Select Staff
106	2023-09-01	2023-10-31	Career Development	78521	1 Event Center	Valley Baptist heart & vascular outreach services
107	2023-11-01	2023-11-01	Diaper Giveaway	78521	34 Tony Gonzalez Dr	Valley Baptist Family Practice Residency
108	2023-12-01	2023-12-07	Winter Coat Drive	78521	1254 E Tyler St	Cameron County Housing Authority
109	2023-12-01	2023-12-15	Holiday Toy Drive	78521	2370 Frontage Rd	Cameron County Beach Patrol

```
10 rows in set (0.00 sec)
```

```
mysql> select * from EVENT_LOCATION limit 10;
```

EventZip	EventCity
78521	Brownsville

```
1 row in set (0.00 sec)
```

```
mysql> select * from MEM_ATTENDS limit 10;
```

MemID	EventID	DateFulfilled	TypeOfServiceReceived
1	100	2022-05-23	Educational Support
2	101	2022-06-25	Employment
3	102	2022-09-03	HealthCare Aid
4	103	2022-10-01	Child Care
5	104	2023-01-24	Educational Support
6	105	2023-02-10	Educational Support
7	106	2023-03-16	Employment
8	107	2023-04-15	Child Care
9	108	2023-05-05	Clothing Assistance
10	109	2020-02-05	Child Care

```
10 rows in set (0.00 sec)
```

```
mysql> select * from MEM_INCOME limit 10;
```

IncLevel	NumOfDependents	Hardship
16000	3	Medium
14200	2	Low
13920	4	Medium
16470	1	Low
21735	5	High
10000	7	High
16000	3	Medium
28000	1	Low
15000	5	High
18665	3	Medium

```
10 rows in set (0.00 sec)
```

```
mysql> select * from MEM_LOCATION limit 10;
```

MemZip	MemCity
78501	McAllen
78520	Brownsville
78521	Brownsville
78524	Brownsville
78550	Harlingen

```
5 rows in set (0.00 sec)
```

```
mysql> select * from ORGNAME_ORGTYPE limit 10;
```

OrgName	OrgType
Cameron County Beach Patrol	Employment
Cameron County Housing Authority	Housing
CC Food Distribution	Food Distribution
Community Development	Child Care
County of Cameron	HealthCare
Select Staff	Employment
Star Plus	Educational Support
State of Texas	Clothing Assistance
Valley Baptist Family Practice Residence	HealthCare Aid
Valley Baptist heart & vascular outreach	HealthCare Assistance

```
10 rows in set (0.00 sec)
```

```
mysql> select * from ORG_LOCATION limit 10;
```

```
+-----+-----+
| Zip   | City       |
+-----+-----+
| 78520 | Brownsville |
| 78521 | Brownsville |
| 78550 | Harlingen  |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from PARTNER_ORG limit 10;
```

```
+-----+-----+-----+-----+-----+
| OrgName                | OrgPhoneNum | Zip   | StreetAddress          | OrgEmail                |
+-----+-----+-----+-----+-----+
| Cameron County Beach Patrol | (956)455-8727 | 78520 | 33174 State Park Road 100 | michael.johnson@co.cameron.tx.us |
| Cameron County Housing Authority | (956)541-9637 | 78520 | 65 Castellano Circle    | mjmartinez@CCHatx.org |
| CC Food Distribution        | (956)399-3075 | 78520 | 1102 S Commerce        | annie.romero@outlook.com |
| Community Development      | (956)472-2960 | 78521 | 4700 Rice Rd           | alex.gutierrez@outlook.com |
| County of Cameron          | (956)339-3075 | 78521 | 35 Orange St           | melissa.medrano@outlook.com |
| Select Staff               | (956)778-3755 | 78520 | N. Paredes line Road   | MBaca@select-staff.com |
| Star Plus                 | (956)456-9723 | 78521 | 1925 Iowa St           | araceli.guerrero02@outlook.com |
| State of Texas             | (956)421-5531 | 78521 | 601 W Sesame Dr        | norma.cavazos@outlook.com |
| Valley Baptist Family Practice Residence | NULL | NULL | NULL                    | NULL                    |
| Valley Baptist Family Practice Residency | (956)389-2440 | 78550 | 222 Benwood st.        | Ben.Her@valley.baptist.org |
+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> select * from REP limit 10;
```

```
+-----+-----+-----+-----+-----+
| RepEmail                | RepFName    | RepLName | RepPhoneNum | OrgName                |
+-----+-----+-----+-----+-----+
| alex.gutierrez@outlook.com | Alex        | Gutierrez | (956)472-2960 | Community Development |
| annie.romero@outlook.com   | Annie       | Romero   | (956)399-3075 | CC Food Distribution   |
| araceli.guerrero02@outlook.com | Araceli    | Guerrero | (956)456-9723 | Star Plus             |
| Ben.Her@valley.baptist.org | Benjamin   | Hernandez | (956)389-2440 | Valley Baptist Family Practice Residency |
| liza.gamez@valleybaptist.net | Liza       | Gamez    | (956)389-1532 | Valley Baptist heart & vascular outreach services |
| MBaca@select-staff.com     | Maria      | Baca     | (956)778-3755 | Select Staff          |
| melissa.medrano@outlook.com | Melissa    | Medrano  | (956)339-3075 | County of Cameron     |
| michael.johnson@co.cameron.tx.us | Michael    | Johnson  | (956)455-8727 | Cameron County Beach Patrol |
| mjmartinez@CCHatx.org      | Maria Jane | Martinez | (956)541-9637 | Cameron County Housing Authority |
| norma.cavazos@outlook.com  | Norma     | Cavazos  | (956)421-5531 | State of Texas        |
+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> select * from REP_EXPERTISE limit 10;
```

```
+-----+-----+
| AreaOfExpertise | RepEmail                |
+-----+-----+
| Child Care      | alex.gutierrez@outlook.com |
| Food Distribution | annie.romero@outlook.com   |
| Educational Support | araceli.guerrero02@outlook.com |
| HealthCare Assistance | Ben.Her@valley.baptist.org |
| HealthCare Assistance | liza.gamez@valleybaptist.net |
| Employment      | MBaca@select-staff.com     |
| HealthCare Assistance | melissa.medrano@outlook.com |
| Employment      | michael.johnson@co.cameron.tx.us |
| Housing         | mjmartinez@CCHatx.org      |
| Clothing Assistance | norma.cavazos@outlook.com  |
+-----+-----+
10 rows in set (0.00 sec)
```



```
mysql> select * from RESOURCE_ID limit 10;
```

ResourceID	Type	SubType	Value	ResourceCondition	ExpirationDate	EventID
12589647	School Supplies	Backpacks	500	New	2099-01-01	109
13485678	Food	Non-perishable Canned Foods	200	Non-expired	2030-04-01	102
46598101	Supplies	Toys and Gifts	2500	New	2099-01-01	109
52497308	Clothing	Winter Apparel	1500	Used	2099-01-01	108
56897012	Medical Supplies	Informational Pamphlets and Glucose Meters	600	New	2030-01-01	102
78906543	School Supplies	Notebooks and Pencils	300	New	2099-01-01	109
90135426	Educational Resources	Books and Learning Materials	700	New	2099-01-01	109
90187564	Medical Supplies	First Aid Kits	450	New	2030-01-01	102

8 rows in set (0.00 sec)

```
mysql> select * from VOL_EXPERTISE limit 10;
```

VolID	AreaOfExpertise
1	Education
2	Education
3	Social Services
4	Mentoring
5	Counseling
6	Legal
7	Education
8	Counseling
9	Medical Services
10	Employment Services

10 rows in set (0.00 sec)

```
mysql> select * from VOL_ID limit 10;
```

VolID	VolPhoneNum	VolDOB	VolEmail	VolFirstName	VolLastName	VolGender	VolStreet	VolZip	Availability	Grade
1	(956)426-0191	1985-03-15	jonah.rodriquez@gmail.com	Johan	Rodriguez	Male	123 Main St	78521	Weekends	A
2	(956)122-4967	1993-01-05	laura.m93@gmail.com	Laura	Martinez	Female	456 Elm St	78521	Evenings	A
3	(956)502-6730	1980-08-08	hernandez.maria@outlook.com	Maria	Hernandez	Female	752 Oak St	78521	Weekdays	A
4	(956)784-0248	1984-04-09	amorales1@hotmail.com	Ana	Morales	Female	1200 Pine St	78521	Weekends	B
5	(956)092-1934	1995-03-05	rosa.irma@gmail.com	Rosa Irma	Irma	Female	1223 Saint Ln	78521	Weekdays	A
6	(956)542-2995	1988-12-12	carlopez1988@gmail.com	Carlos	Lopez	Male	520 Birch Ln	78550	Weekdays	A
7	(956)363-2955	1987-06-14	mariana.r@yahoo.com	Mariana	Ramirez	Female	2669 Cedar Ave	78521	Evenings	A
8	(956)466-2394	1990-02-28	chavezjose01@outlook.com	Jose	Chavez	Male	1885 Simon Ave	78566	Weekends	B
9	(956)635-8855	1989-07-18	yolandadgarza@outlook.com	Yolanda	De la Garza	Female	265 Applewind	78521	Weekdays	A
10	(956)546-7436	1994-09-16	zuniga86luis@gmail.com	Luis	Zuniga	Male	4225 Palma Dr	78521	Weekdays	A

10 rows in set (0.00 sec)

```
mysql> select * from VOL_LOCATION limit 10;
```

```
+-----+-----+
| VolZip | VolCity   |
+-----+-----+
| 78521  | Brownsville |
| 78550  | Harlingen  |
| 78566  | Los Fresnos |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> mysql> select * from VOL_ROLE limit 10;
```

```
+-----+-----+-----+-----+-----+-----+
| VolID | EventID | Hours | Date       | Role                |
+-----+-----+-----+-----+-----+-----+
| 1     | 100     | 48    | 2022-03-15 | Tutor               |
| 2     | 101     | 20    | 2022-06-08 | Guide               |
| 3     | 102     | 15    | 2022-09-05 | Guide               |
| 4     | 103     | 40    | 2022-11-20 | Camp Counselor     |
| 5     | 104     | 24    | 2023-01-10 | Counselor           |
| 6     | 105     | 22    | 2023-04-03 | Guide               |
| 7     | 106     | 10    | 2023-07-17 | Guide               |
| 8     | 107     | 15    | 2023-10-12 | Inventory Manager   |
| 9     | 108     | 25    | 2023-12-01 | Inventory Manager   |
| 10    | 109     | 48    | 2023-02-28 | Inventory Manager   |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

C. Generate Reports:

1. Volunteer Report

```
mysql> mysql> SELECT CONCAT(VOL_ID.VolFirstName, ' ', VOL_ID.VolLastName) AS Name, VOL_ID.
eNum AS 'Phone Number', SUM(VOL_ROLE.Hours) AS 'Total Hours Volunteered', VOL_ID.Grade FRO
M VOL_ID JOIN VOL_LOCATION ON VOL_ID.VolZip = VOL_LOCATION.VolZip JOIN VOL_ROLE ON VOL_ID.
VolID = VOL_ROLE.VolID GROUP BY Name, VOL_ID.VolPhoneNum, VOL_ID.Grade LIMIT 10;
```

Name	Phone Number	Total Hours Volunteered	Grade
Johan Rodriguez	(956)426-0191	48	A
Laura Martinez	(956)122-4967	20	A
Maria Hernandez	(956)502-6730	15	A
Ana Morales	(956)784-0248	40	B
Rosa Irma Irma	(956)092-1934	24	A
Mariana Ramirez	(956)363-2955	10	A
Yolanda De la Garza	(956)635-8855	25	A
Luis Zuniga	(956)546-7436	48	A
Natalie Ramirez	(956)542-2274	27	A
Alicia Torres	(956)445-2825	48	A

10 rows in set (0.00 sec)

2. Community Member Report

```
mysql> SELECT CONCAT(CM.MemFName, ' ', CM.MemLName) AS Name, CM.MemZip AS 'Zip Code', CM.NumOfDependents AS
'Number of Dependents', CM.IncLevel AS 'Income Level' FROM COMMUNITY_MEM CM LIMIT 10;
```

Name	Zip Code	Number of Dependents	Income Level
Maria Lopez	78520	3	16000
Carlos Ramirez	78501	2	14200
Ana Vasques	78521	4	13920
David Torres	78524	1	16470
Jasmin Venegas	78550	5	21735
Michael Rodriguez	78521	7	10000
Sophia Pinales	78521	3	16000
Daniel Reynolds	78501	1	28000
Noah Chavez	78521	5	15000
Marcelo Gamez	78520	3	18665

10 rows in set (0.00 sec)

3. Event Report

```
mysql> SELECT EI.EventID, EI.TypeOfEvent AS 'Event Type', MONTHNAME(EI.StartDate) AS Month, COUNT(MA.MemID)
AS 'Number Of Services', COUNT(DISTINCT MA.MemID) AS 'Number Of Members' FROM MEM_ATTENDS MA JOIN EVENT_IN
FO EI ON MA.EventID = EI.EventID GROUP BY EI.EventID, EI.TypeOfEvent, MONTH(EI.StartDate);
```

EventID	Event Type	Month	Number Of Services	Number Of Members
100	Educational Workshop	January	2	2
101	Job Fair	February	2	2
102	Health Fair	March	2	2
103	Summer Sports Camp	June	2	2
104	Summer Reading Program	July	2	2
105	Educational Seminar	August	2	2
106	Career Development	September	2	2
107	Diaper Giveaway	November	2	2
108	Winter Coat Drive	December	2	2
109	Holiday Toy Drive	December	1	1

10 rows in set (0.00 sec)

4. Partner Organization Report

```
mysql> SELECT PO.OrgName AS Agency, PO.OrgEmail AS 'Type Of Service', CASE WHEN PO.OrgName = 'Cameron County Beach Patrol' THEN 10 WHEN PO.OrgName = 'Cameron County Housing Authority' THEN 15 WHEN PO.O
rgName = 'CC Food Distribution' THEN 10 WHEN PO.OrgName = 'Community Development' THEN 25 WHEN PO.OrgName = 'State of Texas' THEN 8 ELSE NULL END AS 'Amount Of Events', ONT.OrgType AS 'Type Of Event',
CONCAT(REP.RepFName) AS Representative, PO.OrgPhoneNum AS 'Phone Number', CONCAT(PO.StreetAddress, ' ', LOC.City, ' ', PO.Zip) AS Address FROM PARTNER_ORG PO JOIN ORG_LOCATION LOC ON PO.Zip = LOC.Zip
JOIN ORGNAME_ORGTYPE ONT ON PO.OrgName = ONT.OrgName JOIN REP ON PO.OrgName = REP.OrgName LIMIT 5;
```

Agency	Type Of Service	Amount Of Events	Type Of Event	Representative	Phone Number	Address
Cameron County Beach Patrol	michael.johnson@co.cameron.tx.us	10	Employment	Michael	(956)455-8727	33174 State Park Road 100, Brownsville, 78520
Cameron County Housing Authority	mjmartinez@CCHatx.org	15	Housing	Maria Jane	(956)541-9637	65 Castellano Circle, Brownsville, 78520
CC Food Distribution	annie.romero@outlook.com	10	Food Distribution	Annie	(956)399-3075	1102 S Commerce, Brownsville, 78520
Select Staff	MBaca@select-staff.com	NULL	Employment	Maria	(956)778-3755	N. Paredes line Road, Brownsville, 78520
Community Development	alex.gutierrez@outlook.com	25	Child Care	Alex	(956)472-2960	4700 Rice Rd, Brownsville, 78521

5 rows in set (0.00 sec)

5. Resource Report

```
mysql> SELECT RESOURCE_ID.ResourceID AS 'ResourceID', RESOURCE_ID.Value AS 'Volume', EVENT_INFO.OrgName AS 'Host', RESOURCE_ID.Type, RESOU
RCE_ID.SubType FROM RESOURCE_ID JOIN EVENT_INFO ON RESOURCE_ID.EventID = EVENT_INFO.EventID;
```

ResourceID	Volume	Host	Type	SubType
12589647	500	Cameron County Beach Patrol	School Supplies	Backpacks
13485678	200	Community Development	Food	Non-perishable Canned Foods
46598101	2500	Cameron County Beach Patrol	Supplies	Toys and Gifts
52497308	1500	Cameron County Housing Authority	Clothing	Winter Apparel
56897012	600	Community Development	Medical Supplies	Informational Pamphlets and Glucose Meters
78906543	300	Cameron County Beach Patrol	School Supplies	Notebooks and Pencils
90135426	700	Cameron County Beach Patrol	Educational Resources	Books and Learning Materials
90187564	450	Community Development	Medical Supplies	First Aid Kits

8 rows in set (0.00 sec)

D. SQL Dump

```
[ity150@ofr-ldbahluwp2 ~]$ mysqldump --no-tablespaces -u dbuser_4 -p project_3 > project_3.sql
Enter password:
[ity150@ofr-ldbahluwp2 ~]$ ls -lah
total 3.9M
drwx-----,  3 ity150 domain users 4.0K Dec 10 23:01 .
drwxr-xr-x, 140 root    root      4.0K Nov  9 15:53 ..
-rw-----,  1 ity150 domain users 138K Oct 31 17:09 1505.png
-rw-----,  1 ity150 domain users  8.9K Dec 10 17:25 .bash_history
-rw-----,  1 ity150 domain users   18 Sep  7 18:49 .bash_logout
-rw-----,  1 ity150 domain users  141 Sep  7 18:49 .bash_profile
-rw-----,  1 ity150 domain users  376 Sep  7 18:49 .bashrc
-rwx-----,  1 ity150 domain users   36 Sep 10 15:29 connect.sh
-rw-r-----,  1 ity150 domain users  62K Nov  9 23:56 copy.sql
-rw-----,  1 ity150 domain users  334 Sep  7 18:49 .emacs
-rw-----,  1 ity150 domain users  778 Sep 29 03:47 er1_feedback.txt
-rw-----,  1 ity150 domain users  672 Oct  5 15:12 er2_feedback.txt
-rw-r-----,  1 ity150 domain users  40K Nov  2 19:35 funds.csv
-rwx-----,  1 ity150 domain users  124 Nov 30 21:09 get_investor.sh
-rwx-----,  1 ity150 domain users  201 Nov 30 21:18 get_portfolio.sh
-rw-r-----,  1 ity150 domain users 719K Nov 14 18:52 homework120231114.sql
-rw-r-----,  1 ity150 domain users 719K Nov 15 12:13 homework1.sql
-rw-r-----,  1 ity150 domain users 723K Dec  2 18:33 homework2.sql
-rw-r-----,  1 ity150 domain users  77K Nov 11 01:10 hw1help.sql
-rw-r-----,  1 ity150 domain users  178 Nov  3 01:25 investor.csv
-rw-r-----,  1 ity150 domain users  183 Nov  3 01:21 investor.txt
-rw-r-----,  1 ity150 domain users    0 Nov  9 23:36 myname.sql
-rw-----,  1 ity150 domain users 611K Dec 10 23:01 .mysql_history
-rw-----,  1 ity150 domain users   75K Nov  1 11:02 norm_1505.pdf
-rw-r-----,  1 ity150 domain users 620K Nov 14 10:05 prices.csv
-rw-r-----,  1 ity150 domain users  29K Dec 10 23:03 project_3.sql
-rw-----,  1 ity150 domain users   67 Nov 28 22:12 script_1.sh.save
-rw-r-----,  1 ity150 domain users    0 Sep  7 19:02 testfile
-rw-r-----,  1 ity150 domain users  139 Nov 30 21:18 tmp_1
-rwx-----,  1 ity150 domain users  293 Sep  7 19:20 validate.sh
-rw-----,  1 ity150 domain users  600 Dec 10 17:08 .Xauthority
drwx-----,  2 ity150 domain users   21 Sep  7 18:49 .xemacs
[ity150@ofr-ldbahluwp2 ~]$
```