



#### Assumptions:

1. One user could report multiple events, while one event could be reported by multiple users.
2. One event has a specific category.
3. One event may not has victim
4. One event happened in a specific area
5. One street belongs to an area
6. Each event has at most one victim

#### A description of each relationship and its cardinality:

1. Users report Events, Events are reported by Users;
2. Events have one crime category, a CrimeType is a category of Events;
3. Events have Victims, Victims suffer from Events;
4. Events happen in Areas, Areas is location of Events;
5. Areas have Streets, Streets belong to Areas.

#### Relational Schema:

Users(UserID [PK], Name, Email)

Reports(UserID [FK to Users.UserID], EventID [FK to Events.EventID])

Events(EventID [PK], DateReported, DateEnd, CrimeType [FK to Crimes.CrimeType], AreaID [FK to Areas.AreaID]) Crimes(CrimeType [PK], CrimeDesc, Mocodes, Risk)

Victims(VictimID [PK], Age, Sex, Descent)

EventVictims(EventID [FK to Events.EventID], VictimID [FK to Victims.VictimID])

Streets(StreetName [PK], Latitude, Longitude, AreaID [FK to Areas.AreaID])

Areas(AreaID [PK], Name)