

Phase 2 SQL
CS 6400 – Fall 2016
Team028

```
CREATE DATABASE IF NOT EXISTS emergency_resource;
```

```
USE emergency_resource;
```

```
CREATE TABLE USERS (  
    Username varchar(50) NOT NULL,  
    Name_s varchar(50) NOT NULL,  
    Password_s varchar(50) NOT NULL,  
    PRIMARY KEY (Username));
```

```
CREATE TABLE INDIVIDUAL (  
    Username varchar(50) NOT NULL,  
    Job_title varchar(50) NOT NULL,  
    Date_hired datetime NOT NULL,  
    PRIMARY KEY (Username),  
    FOREIGN KEY (Username)  
        REFERENCES USERS (Username));
```

```
CREATE TABLE COMPANY (  
    Username varchar(50) NOT NULL,  
    Headquarter varchar(50) NOT NULL,  
    PRIMARY KEY (Username),  
    FOREIGN KEY (Username)  
        REFERENCES USERS (Username));
```

```
CREATE TABLE GOV_AGENCY (  
    Username varchar(50) NOT NULL,
```

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Jurisdiction varchar(50) NOT NULL,  
PRIMARY KEY (Username),  
FOREIGN KEY (Username)  
REFERENCES USERS (Username));
```

```
CREATE TABLE MUNICIPALITY (  
    Username varchar(50) NOT NULL,  
    Population_size varchar(50) NOT NULL,  
    PRIMARY KEY (Username),  
    FOREIGN KEY (Username)  
    REFERENCES USERS (Username));
```

```
CREATE TABLE INCIDENT (  
    Username varchar(50) NOT NULL,  
    Inc_ID int NOT NULL,  
    Date_s datetime NOT NULL,  
    Description varchar(50) NOT NULL,  
    Longitude double NOT NULL,  
    Latitude double NOT NULL,  
    PRIMARY KEY (Username, Inc_ID),  
    FOREIGN KEY (Username)  
    REFERENCES USERS (Username));
```

```
CREATE TABLE RESOURCES (  
    Username varchar(50) NOT NULL,  
    Res_ID int NOT NULL,  
    Res_name varchar(50) NOT NULL,  
    Prim_ESF varchar(100) NOT NULL,  
    Model varchar(50) NULL,  
    Home_lat double NOT NULL,
```

```
Home_long double NOT NULL,  
Status_s varchar(50) NULL,  
Price int NOT NULL,  
Cost_unit varchar(50) NULL,  
PRIMARY KEY (Username, Res_ID),  
FOREIGN KEY (Username)  
    REFERENCES USERS (Username),  
FOREIGN KEY (Prim_ESF)  
    REFERENCES ESF (ID_description),  
FOREIGN KEY (Cost_unit)  
    REFERENCES COST_UNIT (unit));
```

```
CREATE TABLE COST_UNIT (  
    Unit varchar(50) NOT NULL,  
    PRIMARY KEY (Unit));
```

```
INSERT INTO COST_UNIT (Unit) VALUES ('hour');  
INSERT INTO COST_UNIT (Unit) VALUES ('day');  
INSERT INTO COST_UNIT (Unit) VALUES ('week');
```

```
CREATE TABLE ESF (  
    ESF_ID_Desc varchar(100) NOT NULL,  
    PRIMARY KEY (ESF_ID_Desc));
```

```
INSERT INTO ESF (ESF_ID_Desc) VALUES ('1 - Transportation');  
INSERT INTO ESF (ESF_ID_Desc) VALUES ('2 - Communications');  
INSERT INTO ESF (ESF_ID_Desc) VALUES ('3 - Public Works & Engineering');  
INSERT INTO ESF (ESF_ID_Desc) VALUES ('4 - Firefighting');  
INSERT INTO ESF (ESF_ID_Desc) VALUES ('5 - Emergency Management');
```

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INSERT INTO ESF (ESF_ID_Desc) VALUES ('6 - Mass Care, Emergency Assistance,
Housing, & Human Services');

INSERT INTO ESF (ESF_ID_Desc) VALUES ('7 - Logistics Management & Resource
Support');

INSERT INTO ESF (ESF_ID_Desc) VALUES ('8 - Public Health & Medical Services');

INSERT INTO ESF (ESF_ID_Desc) VALUES ('9 - Search & Rescue');

INSERT INTO ESF (ESF_ID_Desc) VALUES ('10 - Oil & Hazardous Materials Response');

INSERT INTO ESF (ESF_ID_Desc) VALUES ('11 - Agriculture & Natural Resources');

INSERT INTO ESF (ESF_ID_Desc) VALUES ('12 - Energy');

INSERT INTO ESF (ESF_ID_Desc) VALUES ('13 - Public Safety & Security');

INSERT INTO ESF (ESF_ID_Desc) VALUES ('14 - Long-Term Community Recovery');

INSERT INTO ESF (ESF_ID_Desc) VALUES ('15 - External Affairs');

```

```

CREATE TABLE RES_ADDI_ESF (
    Res_ID int NOT NULL,
    ID_Desc varchar(100) NOT NULL,
    PRIMARY KEY (Res_ID, ID_Desc),
    FOREIGN KEY (Res_ID)
        REFERENCES RESOURCES (Res_ID),
    FOREIGN KEY (ID_Desc)
        REFERENCES ESF (ESF_ID_Desc));

```

```

CREATE TABLE RES_CAP (
    Res_ID int NOT NULL,
    Res_capability varchar(50) NOT NULL,
    PRIMARY KEY (Res_ID, Res_capability),
    FOREIGN KEY (Res_ID)
        REFERENCES RESOURCES (Res_ID));

```

```

CREATE TABLE REQUEST (

```

```
Inc_ID int NOT NULL,  
Res_ID int NOT NULL,  
Start_date datetime NULL,  
Return_by datetime NULL,  
PRIMARY KEY (Inc_ID, Res_ID),  
FOREIGN KEY (Inc_ID)  
    REFERENCES INCIDENT (Inc_ID),  
FOREIGN KEY (Res_ID)  
    REFERENCES RESOURCES (Res_ID));
```

```
CREATE TABLE REPAIRS (  
    Res_ID int NOT NULL,  
    Start_date datetime NOT NULL,  
    Return_by datetime NOT NULL,  
    PRIMARY KEY (Res_ID, Start_date),  
    FOREIGN KEY (Res_ID)  
        REFERENCES RESOURCES (Res_ID));
```