# **Phase 2 SQL**

# CS 6400 – Fall 2016

# Team028

CREATE TABLE USER (

Username varchar(50) NOT NULL,

Name varchar(50) NOT NULL,

Password varchar(50) NOT NULL,

PRIMARY KEY (Username));

CREATE TABLE COMPANY (

Username varchar(50) NOT NULL,

Headquarter varchar(50) NULL,

PRIMARY KEY (Username),

FOREIGN KEY (Username)

REFERENCES USER (Username));

CREATE TABLE GOVERNMENT\_AGENCY (

Username varchar(50) NOT NULL,

Jurisdiction varchar(50) NULL,

PRIMARY KEY (Username),

FOREIGN KEY (Username)

REFERENCES USER (Username));

CREATE TABLE MUNICIPALITY (

Username varchar(50) NOT NULL,

Population\_size varchar(50) NULL,

PRIMARY KEY (Username),

FOREIGN KEY (Username)

REFERENCES USER (Username));

CREATE TABLE INDIVIDUAL (

Username varchar(50) NOT NULL,

Job\_title varchar(50) NULL,

Date\_hired NULL

PRIMARY KEY (Username),

FOREIGN KEY (Username)

REFERENCES USER (Username));

CREATE TABLE INCIDENT (

Username varchar(50) NOT NULL,

Inc\_ID int NOT NULL,

Date datetime NULL,

Description varchar(50) NULL,

Longitude double NOT NULL,

Latitude double NOT NULL,

PRIMARY KEY (Username, Inc\_ID),

FOREIGN KEY (Username)

REFERENCES USER (Username));

CREATE TABLE RESOURCES (

Username varchar(50) NOT NULL,

Res\_ID int NOT NULL,

Res\_name varchar(50) NULL,

ID\_desc varchar(100) NOT NULL,

Model varchar(50) NULL,

Home\_lat double NULL,

Home\_long double NULL,

Price int NULL,

Status varchar(50) NULL,

Available\_date datetime NULL,

Rep\_start datetime NULL,

Cost\_unit varchar(50) NULL,

PRIMARY KEY (Username, Res\_ID),

FOREIGN KEY (Username)

REFERENCES USER (Username),

FOREIGN KEY (ID\_desc)

REFERENCES ESF (ID\_description),

FOREIGN KEY (Cost\_unit)

REFERENCES COST\_UNIT (unit));

CREATE TABLE ESF (

ID\_description varchar(100) NOT NULL,

PRIMARY KEY (ID\_description));

CREATE TABLE COST\_UNIT (

Unit varchar(50) NOT NULL,

PRIMARY KEY (Unit));

CREATE TABLE RES\_CAP (

Res\_ID int NOT NULL,

Res\_capability varchar(50) NULL,

PRIMARY KEY (Res\_ID, Res\_capability),

FOREIGN KEY (Res\_ID)

REFERENCES RESOURCES (Res\_ID));

CREATE TABLE ADDI\_HAS (

Res\_ID int NOT NULL,

ID\_desc varchar(100) NOT NULL,

UNIQUE (Res\_ID, ID\_desc),

FOREIGN KEY (Res\_ID)

REFERENCES RESOURCES (Res\_ID)

FOREIGN KEY (ID\_desc)

REFERENCES ESF (ID\_description));

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, Rec\_ID),

FOREIGN KEY (Inc\_ID)

REFERENCES INCIDENT (Inc\_ID),

FOREIGN KEY (Res\_ID)

REFERENCES RESOURCES (Res\_ID));