Student ID: 46564602 Name: Ford Tang Score: / 100 CS122A HW2

CREATE TABLE User (  
 id INTEGER,  
 phone\_number CHAR(10) NOT NULL,  
 PRIMARY KEY (id)  
);

CREATE TABLE Driver (  
 id INTEGER,  
 SSN CHAR(9) NOT NULL,   
 bank\_account\_account\_number VARCHAR(14) NOT NULL,  
 bank\_account\_routing\_number CHAR(9) NOT NULL,  
 PRIMARY KEY (id),  
 FOREIGN KEY (id) REFERENCES User,  
 ON DELETE CASCADE  
);

CREATE TABLE Customer (  
 id INTEGER,  
 address VARCHAR(100) NOT NULL,   
 PRIMARY KEY (id),  
 FOREIGN KEY (id) REFERENCES User,  
 ON DELETE CASCADE  
);

CREATE TABLE Restaurant (  
 id INTEGER,  
 name VARCHAR(30) NOT NULL,  
 address VARCHAR(100) NOT NULL,  
 bank\_account\_account\_number VARCHAR(14) NOT NULL,  
 bank\_account\_routing\_number CHAR(9) NOT NULL,  
 PRIMARY KEY (id)  
);

CREATE TABLE Dish (  
 Restaurant\_id INTEGER,  
 name VARCHAR(30),  
 price DECIMAL(3,2) NOT NULL,  
 PRIMARY KEY (Restaurant\_id, name),  
 FOREIGN KEY (Restaurant\_id) REFERENCES Restaurant,  
 ON DELETE CASCADE  
);

CREATE TABLE Order (  
 id INTEGER,  
 order\_datetime DATETIME NOT NULL,  
 total\_amount DECIMAL(5,2) NOT NULL,  
 Customer\_id INTEGER NOT NULL,  
 Driver\_id INTEGER NOT NULL,  
 Restaurant\_id INTEGER NOT NULL,  
 PRIMARY KEY (id),  
 FOREIGN KEY (Driver\_id) REFERENCES Driver,  
 FOREIGN KEY (Restaurant\_id) REFERENCES Restaurant,  
 FOREIGN KEY (Customer\_id) REFERENCES Customer,  
 ON DELETE CASCADE  
);

CREATE TABLE Order\_Dish (  
 Order\_id INTEGER,  
 Restaurant\_id INTEGER NOT NULL,  
 Dish\_name VARCHAR(30),  
 quantity INTEGER NOT NULL,  
 PRIMARY KEY (Order\_id, Dish\_name),   
 FOREIGN KEY (Restaurant\_id, Dish\_name) REFERENCES Dish(Restaurant\_id, name),  
 FOREIGN KEY (Order\_id) REFERENCES Order,  
 ON DELETE CASCADE  
);

CREATE TABLE credit\_card (  
 number CHAR(16),  
 expr\_date CHAR(4) NOT NULL,  
 Customer\_id INTEGER NOT NULL,  
 PRIMARY KEY (number),  
 FOREIGN KEY (Customer\_id) REFERENCES Customer,  
 ON DELETE CASCADE  
);