

Customer(CustomerID:Integer, Name:varchar(30), PhoneNumber:Integer, Email: varchar(50),
TableID:Integer,)

Candidate Keys: (CustomerID, TableID)

Functional Dependencies:

CustomerID, TableID ==> Name, PhoneNumber, Email

SQL DDL: CREATE TABLE Customer (
CustomerID INTEGER PRIMARY KEY,
Name VARCHAR(30) NOT NULL,
PhoneNumber INTEGER NOT NULL,
Email varchar(50)
);

RestaurantTable(TableID:Integer, Row:Integer, Spot:varchar(30))

Candidate Keys: (TableID)

Functional Dependencies:

TableID ==> Row, Spot, Reserves_Date, Reserves_Time, Reserves_Period

SQL DDL: CREATE TABLE RestaurantTable (
TableID INTEGER PRIMARY KEY,
Row INTEGER,
Spot varchar(30)
);

RoomLocation(LocationID:Integer, Name:varchar(30), Description:varchar(200))

Candidate Keys: (LocationID)

Functional Dependencies:

LocationID ==> Name, Description

SQL DDL: CREATE TABLE RoomLocation (
LocationID INTEGER PRIMARY KEY,
Name varchar(30),
Description varchar(200)
);

EventOcation(OcationID:Integer, Description:varchar(200))

Candidate Keys: (OcationID)

Functional Dependencies:

OcationID ==> OcationID, Description

SQL DDL: CREATE TABLE EventOcation (
OcationID INTEGER PRIMARY KEY,
Description varchar(200)
);

Reserves(Date:Date, Time: Time, Period: Integer, TableID: Integer)

Candidate Keys: (TableID)

Functional Dependencies:

TableID ==> Date, Time, Period

SQL DDL: CREATE TABLE Reserves (
TableID INTEGER PRIMARY KEY,
Date Date,
Time Time,
Period Integer,
PRIMARY KEY (TableID),
FOREIGN KEY (TableID) REFERENCES RestaurantTable
);

GiveInstruction(SpecialInstruction:varchar(200), OcationID:Integer)

Candidate Keys: (OcationID)

Functional Dependencies:

OcationID ==> SpecialInstruction

SQL DDL: CREATE TABLE Reserves (
 TableID INTEGER PRIMARY KEY,
 SpecialInstruction varchar(200),
 PRIMARY KEY (OcationID),
 FOREIGN KEY (OcationID) REFERENCES EventOcation
);