DROP TABLE IF EXISTS customer, admin, room, address, creditcard, reservation, reservationlog;

CREATE TABLE `customer` (

`customerID` int(11) NOT NULL AUTO\_INCREMENT,

`fname` varchar(30) NOT NULL,

`lname` varchar(30) NOT NULL,

`email` varchar(255) NOT NULL,

`pswd` varchar(15) NOT NULL,

`phone` bigint(10) NOT NULL,

PRIMARY KEY(customerID)

);

INSERT INTO `customer` (`customerID`, `fname`, `lname`, `email`, `pswd`, `phone`) VALUES

(12, 'Chinki', 'Patel', 'cdp@gmail.com', 'cdp', 8729990374),

(13, 'xyz', 'abc', 'xyz@gmail.com', 'xyz', 123456789);

CREATE TABLE `admin` (

`adminID` int(11) NOT NULL AUTO\_INCREMENT,

`fname` varchar(30) NOT NULL,

`lname` varchar(30) NOT NULL,

`email` varchar(255) NOT NULL,

`password` varchar(255) NOT NULL,

PRIMARY KEY(adminID)

) ;

INSERT INTO `admin` (`adminID`, `fname`, `lname`, `email`, `password`) VALUES

(1, 'Chingari', 'Patel', 'cdp@gmail.com', 'cdp'),

(2, 'Ilona', 'Shparii', 'is@gmail.com', 'is'),

(3, 'Anne', 'Zhao', 'az@gmail.com', 'az');

CREATE TABLE `address` (

`addressID` int(11) NOT NULL AUTO\_INCREMENT,

`customerID` int(11) NOT NULL,

`addressline1` varchar(255) NOT NULL,

`addressline2` varchar(255) NOT NULL,

`city` varchar(25) NOT NULL,

`state` varchar(25) NOT NULL,

`zipcode` int(5) NOT NULL,

PRIMARY KEY(addressID)

) ;

ALTER TABLE `address`

ADD CONSTRAINT `ac` FOREIGN KEY (`customerID`) REFERENCES `customer` (`customerID`) ON DELETE CASCADE ON UPDATE CASCADE;

INSERT INTO `address` (`addressID`, `customerID`, `addressline1`, `addressline2`, `city`, `state`, `zipcode`) VALUES

(3, 12, '6542 N Ashland Avenue', '', 'Chicago', 'Illinois', 60626),

(4, 13, '123 London Street', 'apt 1E', 'Chicago', 'Illinois', 60660);

CREATE TABLE `creditcard` (

`cardnumber` bigint(16) NOT NULL,

`customerID` int(11) NOT NULL,

`addressID` int(11) NOT NULL,

`cardholdername` varchar(255) NOT NULL,

`cvv` int(3) NOT NULL,

`expirymm` int(2) NOT NULL,

`expiryyy` int(2) NOT NULL,

PRIMARY KEY(cardnumber)

) ;

ALTER TABLE `creditcard`

ADD CONSTRAINT `cc` FOREIGN KEY (`customerID`) REFERENCES `customer` (`customerID`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `ca` FOREIGN KEY (`addressID`) REFERENCES `address` (`addressID`) ON DELETE CASCADE ON UPDATE CASCADE;

INSERT INTO `creditcard` (`cardnumber`, `customerID`, `addressID`, `cardholdername`, `cvv`, `expirymm`, `expiryyy`) VALUES

(1111111111111111, 12, 3, 'Chinki', 111, 11, 20),

(2222222222222222, 13, 4, 'xyz', 222, 22, 20);

CREATE TABLE `room` (

`roomno` int(11) NOT NULL,

`adminID` int(11) NOT NULL,

`bedsize` enum('Twin Size','Queen Size','Full Size','King Size','Super King Size') NOT NULL,

`smokingallowed` tinyint(1) NOT NULL DEFAULT '0',

`noofbeds` int(11) NOT NULL,

`noofguests` int(11) NOT NULL,

`noofbathroom` int(11) NOT NULL,

`isAvailable` tinyint(1) NOT NULL DEFAULT '1',

`price` double NOT NULL,

PRIMARY KEY(roomno)

) ;

ALTER TABLE `room`

ADD CONSTRAINT `ra` FOREIGN KEY (`adminID`) REFERENCES `admin` (`adminID`);

INSERT INTO `room` (`roomno`, `adminID`, `bedsize`, `smokingallowed`, `noofbeds`, `noofguests`, `noofbathroom`, `isAvailable`, `price`) VALUES

(101, 1, 'Twin Size', 0, 2, 2, 1, 0, 40),

(102, 1, 'Twin Size', 0, 2, 2, 1, 0, 40),

(103, 1, 'Full Size', 0, 1, 2, 1, 1, 55),

(104, 1, 'Queen Size', 0, 1, 2, 1, 1, 60),

(105, 1, 'King Size', 0, 1, 2, 1, 1, 70),

(106, 1, 'Super King Size', 0, 1, 2, 2, 1, 75),

(201, 2, 'Twin Size', 1, 1, 1, 1, 1, 40),

(202, 2, 'Queen Size', 1, 2, 4, 2, 1, 55),

(203, 2, 'King Size', 0, 1, 2, 1, 1, 60),

(204, 2, 'Super King Size', 1, 1, 2, 1, 1, 75);

CREATE TABLE `reservation` (

`reservationID` int(11) NOT NULL AUTO\_INCREMENT,

`customerID` int(11) NOT NULL,

`roomno` int(11) NOT NULL,

`cardnumber` bigint(20) NOT NULL,

`startdate` date NOT NULL,

`enddate` date NOT NULL,

`checkinstatus` tinyint(1) NOT NULL,

`checkoutstatus` tinyint(1) NOT NULL,

`noofguests` int(11) NOT NULL,

PRIMARY KEY(reservationID)

) ;

ALTER TABLE `reservation`

ADD CONSTRAINT `rc` FOREIGN KEY (`customerID`) REFERENCES `customer` (`customerID`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `rr` FOREIGN KEY (`roomno`) REFERENCES `room` (`roomno`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `rcc` FOREIGN KEY (`cardnumber`) REFERENCES `creditcard` (`cardnumber`) ON DELETE NO ACTION ON UPDATE NO ACTION;

INSERT INTO `reservation` (`reservationID`, `customerID`, `roomno`, `cardnumber`, `startdate`, `enddate`, `checkinstatus`, `checkoutstatus`, `noofguests`) VALUES

(1, 12, 102, 1111111111111111, '2016-11-09', '2016-11-12', 1, 1, 2),

(2, 13, 106, 2222222222222222, '2016-12-01', '2016-12-02', 1, 1, 2);

CREATE TABLE `reservationlog` (

`reservationID` int(11) NOT NULL,

`customerID` int(11) NOT NULL,

`changesmade` varchar(255) NOT NULL

) ;

ALTER TABLE `reservationlog`

ADD CONSTRAINT `rrs` FOREIGN KEY (`reservationID`) REFERENCES `reservation` (`reservationID`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD CONSTRAINT `rcu` FOREIGN KEY (`customerID`) REFERENCES `customer` (`customerID`) ON DELETE CASCADE ON UPDATE CASCADE;

INSERT INTO `reservationlog` (`reservationID`, `customerID`, `changesmade`) VALUES

(1, 12, 'Changed the date for customer as requested');