# **SQL CODE FOR ERD OF GUEST HOUSE MANAGEMENT SYSTEM**

-- MySQL Script generated by MySQL Workbench

-- Fri Jan 17 11:01:23 2020

-- Model: New Model Version: 1.0

-- MySQL Workbench Forward Engineering

SET @OLD\_UNIQUE\_CHECKS=@@UNIQUE\_CHECKS, UNIQUE\_CHECKS=0;

SET @OLD\_FOREIGN\_KEY\_CHECKS=@@FOREIGN\_KEY\_CHECKS, FOREIGN\_KEY\_CHECKS=0;

SET @OLD\_SQL\_MODE=@@SQL\_MODE, SQL\_MODE='ONLY\_FULL\_GROUP\_BY,STRICT\_TRANS\_TABLES,NO\_ZERO\_IN\_DATE,NO\_ZERO\_DATE,ERROR\_FOR\_DIVISION\_BY\_ZERO,NO\_ENGINE\_SUBSTITUTION';

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-- Schema mydb

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-- -----------------------------------------------------

-- Schema mydb

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CREATE SCHEMA IF NOT EXISTS `mydb` DEFAULT CHARACTER SET utf8 ;

USE `mydb` ;

-- -----------------------------------------------------

-- Table `mydb`.`Customer`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Customer` (

`customerID` INT NOT NULL AUTO\_INCREMENT,

`first\_name` VARCHAR(25) NOT NULL,

`last\_name` VARCHAR(25) NOT NULL,

`gender` VARCHAR(6) NOT NULL,

`DOB` DATE NOT NULL,

`CNIC` VARCHAR(15) NOT NULL,

`email` VARCHAR(45) NOT NULL,

`password` VARCHAR(25) NOT NULL,

`joining\_date` DATE NOT NULL,

PRIMARY KEY (`customerID`),

UNIQUE INDEX `customerID\_UNIQUE` (`customerID` ASC) VISIBLE,

UNIQUE INDEX `CNIC\_UNIQUE` (`CNIC` ASC) VISIBLE,

UNIQUE INDEX `email\_UNIQUE` (`email` ASC) VISIBLE)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Employee`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Employee` (

`empID` INT NOT NULL AUTO\_INCREMENT,

`first\_ name` VARCHAR(25) NOT NULL,

`last\_name` VARCHAR(25) NOT NULL,

`gender` VARCHAR(6) NOT NULL,

`DOB` DATE NOT NULL,

`CNIC` VARCHAR(15) NOT NULL,

`joinDate` DATE NOT NULL,

`salary` INT NOT NULL,

`branchID` VARCHAR(45) NOT NULL,

PRIMARY KEY (`empID`),

UNIQUE INDEX `empID\_UNIQUE` (`empID` ASC) VISIBLE,

UNIQUE INDEX `CNIC\_UNIQUE` (`CNIC` ASC) VISIBLE)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Admin`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Admin` (

`empID` INT NOT NULL,

`password` VARCHAR(25) NOT NULL,

INDEX `fk\_Admin\_Employee\_idx` (`empID` ASC) VISIBLE,

CONSTRAINT `fk\_Admin\_Employee`

FOREIGN KEY (`empID`)

REFERENCES `mydb`.`Employee` (`empID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Receptionist`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Receptionist` (

`empID` INT NOT NULL,

`password` VARCHAR(25) NOT NULL,

INDEX `fk\_Receptionist\_Employee1\_idx` (`empID` ASC) VISIBLE,

CONSTRAINT `fk\_Receptionist\_Employee1`

FOREIGN KEY (`empID`)

REFERENCES `mydb`.`Employee` (`empID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Customer\_Phone`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Customer\_Phone` (

`customerID` INT NOT NULL,

`phone\_number` VARCHAR(15) NOT NULL,

INDEX `fk\_Customer\_Phone\_Customer1\_idx` (`customerID` ASC) VISIBLE,

CONSTRAINT `fk\_Customer\_Phone\_Customer1`

FOREIGN KEY (`customerID`)

REFERENCES `mydb`.`Customer` (`customerID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Employee\_Phone`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Employee\_Phone` (

`empID` INT NOT NULL,

`phone\_number` VARCHAR(15) NOT NULL,

INDEX `fk\_Employee\_Phone\_Employee1\_idx` (`empID` ASC) VISIBLE,

CONSTRAINT `fk\_Employee\_Phone\_Employee1`

FOREIGN KEY (`empID`)

REFERENCES `mydb`.`Employee` (`empID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Country`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Country` (

`countryID` INT NOT NULL AUTO\_INCREMENT,

`country\_name` VARCHAR(35) NOT NULL,

PRIMARY KEY (`countryID`),

UNIQUE INDEX `countryID\_UNIQUE` (`countryID` ASC) VISIBLE)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`City`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`City` (

`cityID` INT NOT NULL AUTO\_INCREMENT,

`city\_name` VARCHAR(35) NOT NULL,

`countryID` INT NOT NULL,

PRIMARY KEY (`cityID`),

UNIQUE INDEX `cityID\_UNIQUE` (`cityID` ASC) VISIBLE,

INDEX `fk\_City\_Country1\_idx` (`countryID` ASC) VISIBLE,

CONSTRAINT `fk\_City\_Country1`

FOREIGN KEY (`countryID`)

REFERENCES `mydb`.`Country` (`countryID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Address`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Address` (

`addressID` INT NOT NULL AUTO\_INCREMENT,

`address` VARCHAR(45) NOT NULL,

`City\_cityID` INT NOT NULL,

PRIMARY KEY (`addressID`),

UNIQUE INDEX `addressID\_UNIQUE` (`addressID` ASC) VISIBLE,

INDEX `fk\_Address\_City1\_idx` (`City\_cityID` ASC) VISIBLE,

CONSTRAINT `fk\_Address\_City1`

FOREIGN KEY (`City\_cityID`)

REFERENCES `mydb`.`City` (`cityID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Customer\_Address`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Customer\_Address` (

`addressID` INT NOT NULL,

`customerID` INT NOT NULL,

PRIMARY KEY (`addressID`, `customerID`),

INDEX `fk\_Address\_has\_Customer\_Customer1\_idx` (`customerID` ASC) VISIBLE,

INDEX `fk\_Address\_has\_Customer\_Address1\_idx` (`addressID` ASC) VISIBLE,

CONSTRAINT `fk\_Address\_has\_Customer\_Address1`

FOREIGN KEY (`addressID`)

REFERENCES `mydb`.`Address` (`addressID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Address\_has\_Customer\_Customer1`

FOREIGN KEY (`customerID`)

REFERENCES `mydb`.`Customer` (`customerID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Address\_has\_Employee`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Address\_has\_Employee` (

`addressID` INT NOT NULL,

`empID` INT NOT NULL,

PRIMARY KEY (`addressID`, `empID`),

INDEX `fk\_Address\_has\_Employee\_Employee1\_idx` (`empID` ASC) VISIBLE,

INDEX `fk\_Address\_has\_Employee\_Address1\_idx` (`addressID` ASC) VISIBLE,

CONSTRAINT `fk\_Address\_has\_Employee\_Address1`

FOREIGN KEY (`addressID`)

REFERENCES `mydb`.`Address` (`addressID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Address\_has\_Employee\_Employee1`

FOREIGN KEY (`empID`)

REFERENCES `mydb`.`Employee` (`empID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Type`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Type` (

`typeID` INT NOT NULL AUTO\_INCREMENT,

`type` VARCHAR(15) NOT NULL,

PRIMARY KEY (`typeID`),

UNIQUE INDEX `typeID\_UNIQUE` (`typeID` ASC) VISIBLE)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Employee\_Type`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Employee\_Type` (

`empID` INT NOT NULL,

`typeID` INT NOT NULL,

PRIMARY KEY (`empID`, `typeID`),

INDEX `fk\_Employee\_has\_Type\_Type1\_idx` (`typeID` ASC) VISIBLE,

INDEX `fk\_Employee\_has\_Type\_Employee1\_idx` (`empID` ASC) VISIBLE,

CONSTRAINT `fk\_Employee\_has\_Type\_Employee1`

FOREIGN KEY (`empID`)

REFERENCES `mydb`.`Employee` (`empID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Employee\_has\_Type\_Type1`

FOREIGN KEY (`typeID`)

REFERENCES `mydb`.`Type` (`typeID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Location`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Location` (

`locationID` INT NOT NULL AUTO\_INCREMENT,

`location` VARCHAR(45) NOT NULL,

`cityID` INT NOT NULL,

PRIMARY KEY (`locationID`),

UNIQUE INDEX `locationID\_UNIQUE` (`locationID` ASC) VISIBLE,

INDEX `fk\_Location\_City1\_idx` (`cityID` ASC) VISIBLE,

CONSTRAINT `fk\_Location\_City1`

FOREIGN KEY (`cityID`)

REFERENCES `mydb`.`City` (`cityID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Branch`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Branch` (

`branchID` INT NOT NULL AUTO\_INCREMENT,

`branch\_name` VARCHAR(25) NOT NULL,

`locationID` INT NOT NULL,

PRIMARY KEY (`branchID`),

UNIQUE INDEX `branchID\_UNIQUE` (`branchID` ASC) VISIBLE,

INDEX `fk\_Branch\_Location1\_idx` (`locationID` ASC) VISIBLE,

CONSTRAINT `fk\_Branch\_Location1`

FOREIGN KEY (`locationID`)

REFERENCES `mydb`.`Location` (`locationID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`House`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`House` (

`houseID` INT NOT NULL AUTO\_INCREMENT,

`huose\_Type` VARCHAR(25) NOT NULL,

`branchID` INT NOT NULL,

PRIMARY KEY (`houseID`),

UNIQUE INDEX `houseID\_UNIQUE` (`houseID` ASC) VISIBLE,

INDEX `fk\_House\_Branch1\_idx` (`branchID` ASC) VISIBLE,

CONSTRAINT `fk\_House\_Branch1`

FOREIGN KEY (`branchID`)

REFERENCES `mydb`.`Branch` (`branchID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Room`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Room` (

`roomID` INT NOT NULL AUTO\_INCREMENT,

`room\_number` VARCHAR(5) NOT NULL,

`houseID` INT NOT NULL,

PRIMARY KEY (`roomID`),

UNIQUE INDEX `roomID\_UNIQUE` (`roomID` ASC) VISIBLE,

INDEX `fk\_Room\_House1\_idx` (`houseID` ASC) VISIBLE,

CONSTRAINT `fk\_Room\_House1`

FOREIGN KEY (`houseID`)

REFERENCES `mydb`.`House` (`houseID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Services`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Services` (

`serviceID` INT NOT NULL AUTO\_INCREMENT,

`service\_name` VARCHAR(25) NOT NULL,

`rate` INT NOT NULL,

PRIMARY KEY (`serviceID`),

UNIQUE INDEX `serviceID\_UNIQUE` (`serviceID` ASC) VISIBLE)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Bills`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Bills` (

`customerID` INT NOT NULL,

`serviceID` INT NOT NULL,

PRIMARY KEY (`customerID`, `serviceID`),

INDEX `fk\_Customer\_has\_Services\_Services1\_idx` (`serviceID` ASC) VISIBLE,

INDEX `fk\_Customer\_has\_Services\_Customer1\_idx` (`customerID` ASC) VISIBLE,

CONSTRAINT `fk\_Customer\_has\_Services\_Customer1`

FOREIGN KEY (`customerID`)

REFERENCES `mydb`.`Customer` (`customerID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Customer\_has\_Services\_Services1`

FOREIGN KEY (`serviceID`)

REFERENCES `mydb`.`Services` (`serviceID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Customer\_Record`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Customer\_Record` (

`customerID` INT NOT NULL,

`booking` VARCHAR(5) NOT NULL,

`booking\_date` DATE NOT NULL,

`leaving\_date` DATE NOT NULL,

INDEX `fk\_Customer\_Record\_Customer1\_idx` (`customerID` ASC) VISIBLE,

CONSTRAINT `fk\_Customer\_Record\_Customer1`

FOREIGN KEY (`customerID`)

REFERENCES `mydb`.`Customer` (`customerID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`EmpoyeeLeft`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`EmpoyeeLeft` (

`empID` INT NOT NULL,

`leaving\_date` DATE NOT NULL,

INDEX `fk\_EmpoyeeLeft\_Employee1\_idx` (`empID` ASC) VISIBLE,

CONSTRAINT `fk\_EmpoyeeLeft\_Employee1`

FOREIGN KEY (`empID`)

REFERENCES `mydb`.`Employee` (`empID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Customer\_Deleted`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Customer\_Deleted` (

`customerID` INT NOT NULL,

`joining\_date` DATE NOT NULL,

`leaving\_date` DATE NOT NULL,

INDEX `fk\_Customer\_Deleted\_Customer1\_idx` (`customerID` ASC) VISIBLE,

CONSTRAINT `fk\_Customer\_Deleted\_Customer1`

FOREIGN KEY (`customerID`)

REFERENCES `mydb`.`Customer` (`customerID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Service\_Record`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Service\_Record` (

`serviceID` INT NOT NULL,

`customerID` INT NOT NULL,

`empID` INT NOT NULL,

`date` DATE NOT NULL,

`time` VARCHAR(45) NOT NULL,

INDEX `fk\_Service\_Record\_Services1\_idx` (`serviceID` ASC) VISIBLE,

INDEX `fk\_Service\_Record\_Customer1\_idx` (`customerID` ASC) VISIBLE,

INDEX `fk\_Service\_Record\_Employee1\_idx` (`empID` ASC) VISIBLE,

CONSTRAINT `fk\_Service\_Record\_Services1`

FOREIGN KEY (`serviceID`)

REFERENCES `mydb`.`Services` (`serviceID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Service\_Record\_Customer1`

FOREIGN KEY (`customerID`)

REFERENCES `mydb`.`Customer` (`customerID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Service\_Record\_Employee1`

FOREIGN KEY (`empID`)

REFERENCES `mydb`.`Employee` (`empID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`House\_Booking`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`House\_Booking` (

`houseID` INT NOT NULL,

`customerID` INT NOT NULL,

INDEX `fk\_House\_Booking\_House1\_idx` (`houseID` ASC) VISIBLE,

INDEX `fk\_House\_Booking\_Customer1\_idx` (`customerID` ASC) VISIBLE,

CONSTRAINT `fk\_House\_Booking\_House1`

FOREIGN KEY (`houseID`)

REFERENCES `mydb`.`House` (`houseID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_House\_Booking\_Customer1`

FOREIGN KEY (`customerID`)

REFERENCES `mydb`.`Customer` (`customerID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Room\_Booking`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Room\_Booking` (

`roomID` INT NOT NULL,

`customerID` INT NOT NULL,

INDEX `fk\_Room\_Booking\_Room1\_idx` (`roomID` ASC) VISIBLE,

INDEX `fk\_Room\_Booking\_Customer1\_idx` (`customerID` ASC) VISIBLE,

CONSTRAINT `fk\_Room\_Booking\_Room1`

FOREIGN KEY (`roomID`)

REFERENCES `mydb`.`Room` (`roomID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Room\_Booking\_Customer1`

FOREIGN KEY (`customerID`)

REFERENCES `mydb`.`Customer` (`customerID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Complaint\_Category`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Complaint\_Category` (

`complaintCategoryID` INT NOT NULL AUTO\_INCREMENT,

`category` VARCHAR(15) NOT NULL,

PRIMARY KEY (`complaintCategoryID`),

UNIQUE INDEX `complaintCategoryID\_UNIQUE` (`complaintCategoryID` ASC) VISIBLE)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Complaint`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Complaint` (

`complaintID` INT NOT NULL AUTO\_INCREMENT,

`complaintCategoryID` INT NOT NULL,

`complaint` VARCHAR(100) NOT NULL,

`customerID` INT NOT NULL,

PRIMARY KEY (`complaintID`),

UNIQUE INDEX `complaintID\_UNIQUE` (`complaintID` ASC) VISIBLE,

INDEX `fk\_Complaint\_Complaint\_Category1\_idx` (`complaintCategoryID` ASC) VISIBLE,

INDEX `fk\_Complaint\_Customer1\_idx` (`customerID` ASC) VISIBLE,

CONSTRAINT `fk\_Complaint\_Complaint\_Category1`

FOREIGN KEY (`complaintCategoryID`)

REFERENCES `mydb`.`Complaint\_Category` (`complaintCategoryID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_Complaint\_Customer1`

FOREIGN KEY (`customerID`)

REFERENCES `mydb`.`Customer` (`customerID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `mydb`.`Response`

-- -----------------------------------------------------

CREATE TABLE IF NOT EXISTS `mydb`.`Response` (

`responseID` INT NOT NULL AUTO\_INCREMENT,

`response` VARCHAR(100) NOT NULL,

`complaintID` INT NOT NULL,

PRIMARY KEY (`responseID`),

UNIQUE INDEX `responseID\_UNIQUE` (`responseID` ASC) VISIBLE,

INDEX `fk\_Response\_Complaint1\_idx` (`complaintID` ASC) VISIBLE,

CONSTRAINT `fk\_Response\_Complaint1`

FOREIGN KEY (`complaintID`)

REFERENCES `mydb`.`Complaint` (`complaintID`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

SET SQL\_MODE=@OLD\_SQL\_MODE;

SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS;

SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;