DROP TABLE IF EXISTS employees\_work;

DROP TABLE IF EXISTS details\_compatibilities;

DROP TABLE IF EXISTS employees;

DROP TABLE IF EXISTS details;

DROP TABLE IF EXISTS services;

DROP TABLE IF EXISTS cars;

DROP TABLE IF EXISTS clients;

CREATE TABLE clients (

last\_name varchar(60) NOT NULL,

first\_name varchar(60) NOT NULL,

second\_name varchar(60),

address varchar(60) NOT NULL,

phone\_number varchar(60) NOT NULL,

login varchar(60) NOT NULL PRIMARY KEY,

password varchar(60) NOT NULL,

status varchar(60) NOT NULL

);

CREATE TABLE cars (

id\_owner varchar(60),

license\_plate varchar(60) NOT NULL PRIMARY KEY,

model varchar(60) NOT NULL,

car\_make varchar(60) NOT NULL,

status varchar(60) NOT NULL,

FOREIGN KEY (id\_owner) REFERENCES clients(login)

ON UPDATE CASCADE

);

CREATE TABLE services (

id\_service int unsigned NOT NULL PRIMARY KEY AUTO\_INCREMENT,

work\_time int unsigned NOT NULL,

mileage bigint unsigned NOT NULL,

start\_date DATE NOT NULL,

final\_date DATE NOT NULL,

id\_employee varchar(60),

license\_plate varchar(60) NOT NULL,

detail\_serial\_number varchar(60) NOT NULL,

FOREIGN KEY (id\_employee) REFERENCES employees(login)

ON UPDATE CASCADE,

FOREIGN KEY (license\_plate) REFERENCES cars(license\_plate)

ON UPDATE CASCADE,

FOREIGN KEY (detail\_serial\_number) REFERENCES details(serial\_number)

ON UPDATE CASCADE

);

CREATE TABLE details (

category varchar(60) NOT NULL,

serial\_number varchar(60) NOT NULL PRIMARY KEY,

price int NOT NULL

);

CREATE TABLE employees (

last\_name varchar(60) NOT NULL,

first\_name varchar(60) NOT NULL,

second\_name varchar(60),

address varchar(60) NOT NULL,

login varchar(60) NOT NULL PRIMARY KEY,

password varchar(60) NOT NULL,

permission int unsigned NOT NULL

);

CREATE TABLE details\_compatibilities (

model varchar(60) NOT NULL,

detail\_serial\_number varchar(60) NOT NULL

);

CREATE TABLE employees\_work(

login varchar(60) NOT NULL,

details\_category varchar(60) NOT NULL,

work\_time\_in\_day int NOT NULL

);

DELIMITER //

CREATE TRIGGER check\_compatibilities

BEFORE INSERT ON services

FOR EACH ROW

BEGIN

DECLARE car\_model varchar(60);

DECLARE detail\_model varchar(60);

SELECT model INTO car\_model FROM cars WHERE license\_plate = NEW.license\_plate;

SELECT model INTO detail\_model FROM details\_compatibilities WHERE detail\_serial\_number = NEW.detail\_serial\_number;

IF car\_model != detail\_model THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'License plate and detail serial number are not compatible';

END IF;

END;//

DELIMITER ;

DELIMITER //

CREATE TRIGGER prevent\_duplicate\_employees\_work

BEFORE INSERT ON employees\_work

FOR EACH ROW

BEGIN

DECLARE detail\_count INT;

SELECT COUNT(\*) INTO detail\_count

FROM details

WHERE category = NEW.details\_category;

IF detail\_count = 0 THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'Invalid detail category';

END IF;

END;//

DELIMITER ;

DELIMITER //

CREATE TRIGGER check\_employee\_login

BEFORE INSERT ON employees\_work

FOR EACH ROW

BEGIN

DECLARE count\_rows int;

SELECT COUNT(\*) INTO count\_rows

FROM employees\_work

WHERE login = NEW.login AND details\_category = NEW.details\_category;

IF count\_rows > 0 THEN

SIGNAL SQLSTATE '45000' SET MESSAGE\_TEXT = 'Duplicate login and detail\_category are not allowed';

END IF;

END;//

DELIMITER ;

DELIMITER //

CREATE TRIGGER check\_detail\_category

BEFORE INSERT ON employees\_work

FOR EACH ROW

BEGIN

DECLARE detail\_count INT;

SELECT COUNT(\*) INTO detail\_count

FROM details

WHERE category = NEW.details\_category;

IF detail\_count = 0 THEN

SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = 'Invalid detail category';

END IF;

END;//

DELIMITER ;

INSERT INTO clients (last\_name, first\_name, second\_name, address, phone\_number, login, password, status)

VALUES

("Иванов", "Иван", "Иванович", "ул. Ленина, д. 10, кв. 5", "+79123456789", "ivanov\_123", "qwerty123", "1"),

("Петров", "Петр", "Петрович", "ул. Кирова, д. 15, кв. 7", "+79234567890", "petrov\_456", "asdfgh456", "1"),

("Сидоров", "Сидор", "Сидорович", "ул. Гагарина, д. 20", "+79012345678", "sidorov\_789", "zxcvbn789", "0"),

("Кузнецов", "Алексей", "Владимирович", "ул. Советская, д. 5, кв. 12", "+79091234567", "kuznetsov\_012", "qazwsx012", "1"),

("Орлова", "Екатерина", "", "ул. Пушкина, д. 1, кв. 3", "+79015678902", "orlova\_345", "edcrfv345", "1"),

("Морозов", "Игорь", "Николаевич", "ул. Пролетарская, д. 7, кв. 9", "+79025678901", "morozov\_678", "tgbnhy678", "1"),

("Новикова", "Мария", "Андреевна", "ул. Лермонтова, д. 8", "+79031234567", "novikova\_901", "ujmikl901", "1"),

("Смирнов", "Дмитрий", "Сергеевич", "ул. Гоголя, д. 25, кв. 20", "+79044567890", "smirnov\_234", "zaq12wsx234", "0"),

("Тимофеев", "Андрей", "Олегович", "ул. Набережная, д. 12, кв. 3", "+79011234567", "timofeev\_567", "xcdvbn567", "1"),

("Васильева", "Елена", "Михайловна", "ул. Парковая, д. 10, кв. 15", "+79021234567", "vasilieva\_890", "poiuyt890", "1"),

("Игошев", "Владимир", "Алексеевич", "ул. Мира, д. 15, кв. 8", "+79125678903", "igoshov\_123", "qweasd123", "0"),

("Королев", "Игорь", "Вадимович", "ул. Красная, д. 3, кв. 6", "+79135678902", "korolev\_456", "zxcvb456", "1"),

("Захаров", "Юрий", "Анатольевич", "ул. Спортивная, д. 7, кв. 10", "+79111234567", "zakharov\_789", "poi98u789", "1"),

("Макарова", "Ольга", "Дмитриевна", "ул. Жукова, д. 9, кв. 22", "+79014567892", "makarova\_012", "lkjhgf012", "1"),

("Казаков", "Николай", "Петрович", "ул. Октябрьская, д. 6", "+79024567891", "kazakov\_345", "mnbvcx345", "1");

INSERT INTO cars (id\_owner, license\_plate, model, car\_make, status) VALUES

("ivanov\_123", "А111АА12", "Toyota Camry", "Toyota", 1),

("petrov\_456", "С456СС78", "BMW X5", "BMW", 1),

("sidorov\_789", "О123НО77", "Mercedes E-Class", "Mercedes-Benz", 1),

("kuznetsov\_012", "К555КА19", "Audi A6", "Audi", 1),

("orlova\_345", "Н789МЕ99", "Hyundai Sonata", "Hyundai", 1),

("morozov\_678", "О001АК96", "Volkswagen Tiguan", "Volkswagen", 1),

("novikova\_901", "Е567НВ77", "Peugeot 508", "Peugeot", 1),

("smirnov\_234", "Р786РМ09", "Nissan Almera", "Nissan", 1),

("timofeev\_567", "Р123РВ78", "Kia Optima", "Kia", 1),

("vasilieva\_890", "С765КО32", "Skoda Superb", "Skoda", 1),

("igoshov\_123", "У456АВ77", "Renault Logan", "Renault", 1),

("korolev\_456", "А777КМ63", "Ford Focus", "Ford", 1),

("zakharov\_789", "К890АА23", "Chevrolet Cruze", "Chevrolet", 1),

("makarova\_012", "Е444МХ71", "Mazda 6", "Mazda", 1),

("kazakov\_345", "Р555КР35", "Honda Civic", "Honda", 1);

INSERT INTO details (category, serial\_number, price) VALUES

("Двигатель", "56F89TY", 50000),

("Кпп", "HD6712K", 10000),

("Подвеска", "RU848KL", 15000),

("Электрика", "BH555UJ", 8000),

("Частичка", "MM3345L", 2000),

("Топливная система", "TF776VB", 12000),

("Система охлаждения", "KE423DR", 10000),

("Тормозная система", "JY2345P", 5000),

("Система сцепления", "LK342CD", 9000),

("Система выхлопа", "DB777GT", 7000),

("Система подачи воздуха", "TY345GF", 10000),

("Рулевое управление", "HJ333KI", 6000),

("Салон", "LK444VC", 12000),

("Крышка багажника", "TJ324LK", 5000),

("Стекло переднее", "CX2345G", 8000);

INSERT INTO details\_compatibilities (model, detail\_serial\_number) VALUES

("Toyota Camry", "56F89TY"),

("Toyota Camry", "BH555UJ"),

("Toyota Camry", "HD6712K"),

("BMW X5", "HD6712K"),

("BMW X5", "HBH555UJ"),

("BMW X5", "CX2345G"),

("Mercedes E-Class", "RU848KL"),

("Mercedes E-Class", "BH555UJ"),

("Audi A6", "BH555UJ"),

("Audi A6", "HD6712K"),

("Audi A6", "TF776VBL"),

("Hyundai Sonata", "MM3345L"),

("Hyundai Sonata", "TF776VBL"),

("Volkswagen Tiguan", "TF776VB"),

("Volkswagen Tiguan", "CX2345G"),

("Peugeot 508", "KE423DR"),

("Peugeot 508", "CX2345G"),

("Peugeot 508", "KE423DR"),

("Nissan Almera", "JY2345P"),

("Nissan Almera", "BH555UJ"),

("Nissan Almera", "HJ333KI"),

("Kia Optima", "HJ333KI"),

("Kia Optima", "BH555UJ"),

("Kia Optima", "LK342CD"),

("Skoda Superb", "CX2345G"),

("Skoda Superb", "DB777GT"),

("Ford Focus", "KE423DR"),

("Ford Focus", "HJ333KI"),

("Ford Focus", "HKE423DR"),

("Chevrolet Cruze", "LK444VC"),

("Chevrolet Cruze", "CX2345G"),

("Mazda 6", "CX2345G"),

("Mazda 6", "BH555UJ"),

("Mazda 6", "TJ324LK"),

("Honda Civic", "HJ333KI"),

("Honda Civic", "CX2345G"),

("Honda Civic", "BH555UJ");

INSERT INTO employees (last\_name, first\_name, second\_name, address, login, password, permission) VALUES

("Смирнова", "Анна", "Александровна", "ул. Пушкина 30, кв. 5", "smirnova\_456", "8E$2gF5j", 1),

("Ковалев", "Илья", "Евгеньевич", "ул. Гагарина 5, кв. 7", "koval\_789", "6W@9kL5s", 1),

("Максимова", "София", "Михайловна", "ул. Советская 45, кв. 12", "maksim\_012", "hR#7gT2u", 1),

("Козлов", "Александр", "Петрович", "ул. Московская 10, кв. 8", "kozlov\_345", "pT%5fB3r", 1);

INSERT INTO service (work\_time, mileage, start\_date, final\_date, id\_employee, license\_plate, detail\_serial\_number) VALUES

(5, 123456, "2022-01-01", "2022-01-02", "petrov\_123", "А111АА12", "56F89TY"),

(3, 345678, "2022-03-01", "2022-03-02", "kozlov\_345", "О123НО77", "RU848KL"),

(5, 123456, "2022-10-01", "2022-10-02", "smirnova\_456", "С765КО32", "DB777GT"),

(2, 234567, "2022-11-01", "2022-11-02", "kozlov\_345", "У456АВ77", "TY345GF"),

(3, 456789, "2023-01-01", "2023-01-02", "petrov\_123", "К890АА23", "LK444VC"),

(4, 567890, "2023-02-01", "2023-02-03", "smirnova\_456", "Е444МХ71", "TJ324LK");