DROP TABLE IF EXISTS service;

DROP TABLE IF EXISTS employees;

DROP TABLE IF EXISTS details\_compatibility;

DROP TABLE IF EXISTS details;

DROP TABLE IF EXISTS car;

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

);

CREATE TABLE car (

id\_owner varchar(60),

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

model varchar(60) NOT NULL,

car\_make varchar(60) NOT NULL,

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

ON DELETE SET NULL

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 details\_compatibility (

model varchar(60) NOT NULL,

detail\_serial\_number varchar(60) 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 service (

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 car(license\_plate)

ON UPDATE CASCADE,

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

ON UPDATE CASCADE

);

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

('Ivanov', 'Ivan', 'Ivanovich', 'Moscow, Arbat st. 25', '+7 (495) 123-45-67', 'ivanivanovich', 'qwe123'),

('Petrov', 'Petr', 'Petrovich', 'St. Petersburg, Nevsky pr. 55', '+7 (812) 987-65-43', 'petrpetrovich', 'asd456'),

('Sidorov', 'Sergey', 'Vasilyevich', 'Vladivostok, Lenina st. 10', '+7 (423) 555-55-55', 'sergeyvasil', 'zxc789'),

('Kuznetsov', 'Alexey', 'Viktorovich', 'Krasnoyarsk, Mira st. 14', '+7 (391) 777-77-77', 'alexeykuz', 'rty123'),

('Smirnov', 'Dmitry', 'Andreevich', 'Rostov-on-Don, Komsomolskaya st. 19', '+7 (863) 222-22-22', 'dmitrysmir', 'fgh456'),

('Novikov', 'Denis', 'Sergeevich', 'Nizhny Novgorod, Gorkogo st. 9', '+7 (831) 333-33-33', 'denisnovik', 'vbn789'),

('Khvatov', 'Vladimir', 'Olegovich', 'Ufa, Pushkina st. 17', '+7 (347) 444-44-44', 'vladimirhva', 'yui123'),

('Gavrilov', 'Mikhail', 'Alexandrovich', 'Novosibirsk, Lenina st. 85', '+7 (383) 666-66-66', 'mikhailgav', 'hjk456'),

('Korolyov', 'Dmitry', 'Igorevich', 'Yekaterinburg, Vysotskogo st. 31', '+7 (343) 888-88-88', 'dmitrykoro', 'zxcvbnm'),

('Zaytsev', 'Artem', 'Nikolaevich', 'Kazan, Baumana st. 77', '+7 (843) 999-99-99', 'artemzayts', 'qwertyui'

);

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

('alexeykuz', 'X456BC78', 'Audi A4', 'Audi'),

('alexeykuz', 'P345MM90', 'Volkswagen Polo', 'Volkswagen'),

('artemzayts', 'E987AA12', 'Hyundai Solaris', 'Hyundai'),

('artemzayts', 'S123HT32', 'Ford Focus', 'Ford'),

('denisnovik', 'T456BK78', 'BMW 5 Series', 'BMW'),

('dmitrykoro', 'F888NJ01', 'Kia Sportage', 'Kia'),

('dmitrysmir', 'H234CC78', 'Toyota Camry', 'Toyota'),

('ivanivanovich', 'I234KJ78', 'Honda CR-V', 'Honda'),

('mikhailgav', 'M525EE12', 'Mercedes-Benz S-Class', 'Mercedes-Benz'),

('petrpetrovich', 'A436GG23', 'Mazda CX-5', 'Mazda'

);

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

('Engine', 'ENG01', 15000),

('Engine', 'ENG02', 15000),

('Tires', 'TR01', 5000),

('Tires', 'TR02', 1000),

('Transmission', 'TRNS01', 20000),

('Windshield', 'WNDW01', 7000),

('Brake pads', 'BRKP01', 3500),

('Oil filter', 'OILF01', 1000),

('Air filter', 'AIRF01', 2000),

('Battery', 'BAT01', 8000),

('Suspension', 'SPSN01', 10000),

('Fuel filter', 'FLTR01', 3000

);

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

('Audi A4', 'ENG01'),

('Audi A4', 'TR02'),

('Volkswagen Polo', 'TR01'),

('Volkswagen Polo', 'ENG02'),

('Hyundai Solaris', 'TRNS01'),

('Ford Focus', 'WNDW01'),

('BMW 5 Series', 'BRKP01'),

('Kia Sportage', 'OILF01'),

('Toyota Camry', 'AIRF01'),

('Honda CR-V', 'BAT01'),

('Mercedes-Benz S-Class', 'SPSN01'),

('Mazda CX-5', 'FLTR01');

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

('Иванов', 'Петр', 'Сергеевич', 'ул. Ленина, д.5, кв.10', 'ivanov\_petr', '12345', 1),

('Петров', 'Игорь', 'Владимирович', 'ул. Советская, д.20, кв.30', 'petrov\_igor', 'qwerty', 1),

('Сидоров', 'Александр', 'Николаевич', 'ул. Гагарина, д.15, кв.5', 'sidorov\_alex', 'changeme', 1),

('Кузнецова', 'Ирина', 'Ивановна', 'ул. Маяковского, д.4, кв.12', 'kuznetsova\_ira', 'ilovecats', 1),

('Лебедев', 'Андрей', 'Павлович', 'ул. Пушкина, д.10, кв.20', 'lebedev\_andrew', 'welcome', 1),

('Смирнова', 'Екатерина', 'Дмитриевна', 'ул. Чехова, д.25, кв.7', 'smirnova\_ekat', '12345678', 2),

('Васильев', 'Денис', 'Олегович', 'ул. Фрунзе, д.30, кв.15', 'vasilyev\_den', 'password', 1),

('Захарова', 'Наталья', 'Сергеевна', 'ул. Красноармейская, д.12, кв.8', 'zakharova\_nat', 'letmein', 2),

('Андреев', 'Константин', 'Михайлович', 'ул. Жукова, д.6, кв.14', 'andreev\_konst', 'pa$$w0rd', 1),

('Медведева', 'Елена', 'Витальевна', 'ул. Куйбышева, д.8, кв.21', 'medvedeva\_elen', 'abc123', 1

);

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

(4, 10000, '2021-01-05', '2021-01-10', 'ivanov\_petr', 'X456BC78', 'ENG01'),

(2, 5000, '2021-02-11', '2021-02-13', 'andreev\_konst', 'X456BC78', 'TR02'),

(2, 15000, '2021-03-15', '2021-03-22', 'petrov\_igor', 'P345MM90', 'TR01'),

(7, 8000, '2021-04-20', '2021-04-24', 'ivanov\_petr', 'P345MM90', 'ENG02'),

(9, 12000, '2021-05-25', '2021-05-31', 'andreev\_konst', 'E987AA12', 'TRNS01'),

(4, 20000, '2021-06-30', '2021-07-08', 'ivanov\_petr', 'A436GG23', 'FLTR01'),

(6, 3000, '2021-08-10', '2021-08-12', 'zakharova\_nat', 'S123HT32', 'WNDW01'),

(3, 18000, '2021-09-15', '2021-09-24', 'zakharova\_nat', 'T456BK78', 'BRKP01'),

(5, 22000, '2021-10-30', '2021-11-08', 'sidorov\_alex', 'S123HT32', 'WNDW01'),

(6, 7000, '2021-12-10', '2021-12-14', 'ivanov\_petr', 'X456BC78', 'ENG01');

DELIMITER //

CREATE TRIGGER check\_compatibility BEFORE INSERT ON service

FOR EACH ROW

BEGIN

DECLARE car\_model varchar(60);

DECLARE detail\_model varchar(60);

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

SELECT model INTO detail\_model FROM details\_compatibility 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 ;