**Министерство науки и высшего образования Российской Федерации**

федеральное государственное автономное образовательное учреждение высшего образования

**«НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО»**

**Отчет**

по лабораторной работе №3.2 «Создание таблиц базы данных PostgreSQL. Заполнение таблиц рабочими данными**»**

по дисциплине **«Проектирование и реализация баз данных»**

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# Цель работы

Овладеть практическими навыками создания таблиц базы данных PostgreSQL 1Х, заполнения их рабочими данными, резервного копирования и восстановления БД.

# Практическое задание

1. Создать базу данных с использованием pgAdmin 4 (согласно индивидуальному заданию).
2. Создать схему в составе базы данных.
3. Создать таблицы базы данных.
4. Установить ограничения на данные: Primary Key, Unique, Check, Foreign Key.
5. Заполнить таблицы БД рабочими данными.
6. Создать резервную копию БД.

Указание:

Создать две резервные копии:

с расширением CUSTOM для восстановления БД;

с расширением PLAIN для листинга (в отчете);

при создании резервных копий БД настроить параметры Dump options для Type of objects и Queries  .

1. Восстановить БД.

# Вариант 12. БД «Прокат автомобилей»

**Описание предметной области:**

 Компания предоставляет прокат автомобилей. В пункт проката обращаются клиенты, данные о которых регистрируют в базе. Цена проката зависит от марки автомобиля, технических характеристик и года выпуска.

Для проката авто с клиентом заключается договор, в котором фиксируется период проката, вид страховки, стоимость страховки, залоговая стоимость. Залоговая стоимость возвращается полностью или частично клиенту, в зависимости от страховки, аварий и штрафов. Если залоговая стоимость уже возвращена клиенту, но на авто в компанию пришел штраф, то он оплачивается компанией, а не клиентом.  При передаче авто клиенту составляется акт о передаче автомобиля клиенту. При возвращении автомобиля также составляется акт о передаче авто компании.

Если клиент не вернул автомобиль в срок и не оформил продление, ему назначается штраф за каждый час просрочки.

Постоянным клиентам предоставляются скидки.

В системе необходимо хранить историю нарушений (со штрафами за вид нарушения ПДД) и аварий автомобилей. Нарушение может быть совершено во время аварии. Необходимо хранить информацию, кто оплачивает штраф: компания или клиент.

Цены на прокат автомобилей могут меняться.

БД должна содержать следующий минимальный набор сведений: ФИО. Паспортные данные. Код должности. Наименование должности. Оклад. Обязанности. Код марки. Наименование. Технические характеристики. Описание. Код автомобиля. Регистрационный номер. Номер кузова. Номер двигателя.  Год выпуска. Пробег. Цена автомобиля. Цена проката. Дата последнего ТО. Специальные отметки. Отметка о возврате. Код клиента. ФИО. Адрес. Телефон. Паспортные данные. Дата и время выдачи автомобиля. На сколько часов. Дата и время возврата автомобиля. Данные о нарушениях. Данные об авариях. Дата продления. Часов продления.

# Выполнение

Название создаваемой БД – «Каршеринг» («Carsharing»)

Схема логической модели базы данных, сгенерированная в Generate ERD

## db_carsharing - public.png

## Листинг

--

-- PostgreSQL database dump

--

-- Dumped from database version 16.0

-- Dumped by pg\_dump version 16.0

-- Started on 2024-02-29 22:00:47 MSK

SET statement\_timeout = 0;

SET lock\_timeout = 0;

SET idle\_in\_transaction\_session\_timeout = 0;

SET client\_encoding = 'UTF8';

SET standard\_conforming\_strings = on;

SELECT pg\_catalog.set\_config('search\_path', '', false);

SET check\_function\_bodies = false;

SET xmloption = content;

SET client\_min\_messages = warning;

SET row\_security = off;

--

-- TOC entry 4 (class 2615 OID 2200)

-- Name: public; Type: SCHEMA; Schema: -; Owner: -

--

CREATE SCHEMA public;

--

-- TOC entry 3748 (class 0 OID 0)

-- Dependencies: 4

-- Name: SCHEMA public; Type: COMMENT; Schema: -; Owner: -

--

COMMENT ON SCHEMA public IS 'standard public schema';

--

-- TOC entry 240 (class 1255 OID 25182)

-- Name: remove\_cars(integer); Type: PROCEDURE; Schema: public; Owner: -

--

CREATE PROCEDURE public.remove\_cars(IN year integer)

LANGUAGE plpgsql

AS $$

BEGIN

DELETE FROM "car" WHERE "release\_year" < Year;

END;

$$;

SET default\_tablespace = '';

SET default\_table\_access\_method = heap;

--

-- TOC entry 236 (class 1259 OID 25137)

-- Name: accident; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.accident (

id integer NOT NULL,

contract\_id integer NOT NULL,

date timestamp without time zone NOT NULL,

guilty boolean NOT NULL,

damage\_description character varying(500) NOT NULL,

damage\_cost double precision NOT NULL,

CONSTRAINT ck\_accident\_date CHECK ((date <= now())),

CONSTRAINT ck\_damage\_cost CHECK ((damage\_cost >= (0)::double precision))

);

--

-- TOC entry 235 (class 1259 OID 25136)

-- Name: accident\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.accident\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3749 (class 0 OID 0)

-- Dependencies: 235

-- Name: accident\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.accident\_id\_seq OWNED BY public.accident.id;

--

-- TOC entry 230 (class 1259 OID 25078)

-- Name: car; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.car (

id integer NOT NULL,

model\_id integer NOT NULL,

special\_marks character varying(500),

availability boolean NOT NULL,

last\_service\_date timestamp without time zone NOT NULL,

mileage integer NOT NULL,

registration\_number character varying(9) NOT NULL,

engine\_id character varying(8) NOT NULL,

body\_id character varying(8) NOT NULL

);

--

-- TOC entry 229 (class 1259 OID 25077)

-- Name: car\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.car\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3750 (class 0 OID 0)

-- Dependencies: 229

-- Name: car\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.car\_id\_seq OWNED BY public.car.id;

--

-- TOC entry 220 (class 1259 OID 25024)

-- Name: client; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.client (

id integer NOT NULL,

name character varying(20) NOT NULL,

surname character varying(20) NOT NULL,

patronymic character varying(20) NOT NULL,

passport\_info character varying(50) NOT NULL,

driver\_license\_info character varying(50) NOT NULL,

phone\_number character varying(20) NOT NULL,

discount\_percent double precision NOT NULL

);

--

-- TOC entry 219 (class 1259 OID 25023)

-- Name: client\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.client\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3751 (class 0 OID 0)

-- Dependencies: 219

-- Name: client\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.client\_id\_seq OWNED BY public.client.id;

--

-- TOC entry 232 (class 1259 OID 25094)

-- Name: contract; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.contract (

id integer NOT NULL,

client\_id integer NOT NULL,

employee\_id integer NOT NULL,

car\_id integer NOT NULL,

status character varying(20) NOT NULL,

start\_date timestamp without time zone NOT NULL,

end\_date timestamp without time zone NOT NULL,

act\_number integer NOT NULL,

act\_number\_end integer NOT NULL,

insurance\_id integer NOT NULL,

return\_delay boolean NOT NULL,

CONSTRAINT ck\_act\_number\_end CHECK ((act\_number\_end > act\_number)),

CONSTRAINT ck\_contract\_status CHECK (((status)::text = ANY ((ARRAY['Active'::character varying, 'Done'::character varying, 'Canceled'::character varying])::text[]))),

CONSTRAINT ck\_start\_end\_dates CHECK ((start\_date <= end\_date))

);

--

-- TOC entry 231 (class 1259 OID 25093)

-- Name: contract\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.contract\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3752 (class 0 OID 0)

-- Dependencies: 231

-- Name: contract\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.contract\_id\_seq OWNED BY public.contract.id;

--

-- TOC entry 226 (class 1259 OID 25052)

-- Name: employee; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.employee (

id integer NOT NULL,

name character varying(20) NOT NULL,

surname character varying(20) NOT NULL,

patronymic character varying(20) NOT NULL,

post\_id integer NOT NULL

);

--

-- TOC entry 225 (class 1259 OID 25051)

-- Name: employee\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.employee\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3753 (class 0 OID 0)

-- Dependencies: 225

-- Name: employee\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.employee\_id\_seq OWNED BY public.employee.id;

--

-- TOC entry 234 (class 1259 OID 25124)

-- Name: extension\_contract; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.extension\_contract (

id integer NOT NULL,

start\_date timestamp without time zone NOT NULL,

end\_date timestamp without time zone NOT NULL,

contract\_id integer NOT NULL,

CONSTRAINT ck\_start\_end\_dates CHECK ((start\_date <= end\_date))

);

--

-- TOC entry 233 (class 1259 OID 25123)

-- Name: extension\_contract\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.extension\_contract\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3754 (class 0 OID 0)

-- Dependencies: 233

-- Name: extension\_contract\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.extension\_contract\_id\_seq OWNED BY public.extension\_contract.id;

--

-- TOC entry 222 (class 1259 OID 25033)

-- Name: insurance; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.insurance (

id integer NOT NULL,

type character varying(50) NOT NULL,

price double precision NOT NULL,

CONSTRAINT ck\_price\_non\_negative CHECK ((price >= (0)::double precision))

);

--

-- TOC entry 221 (class 1259 OID 25032)

-- Name: insurance\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.insurance\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3755 (class 0 OID 0)

-- Dependencies: 221

-- Name: insurance\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.insurance\_id\_seq OWNED BY public.insurance.id;

--

-- TOC entry 224 (class 1259 OID 25041)

-- Name: model; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.model (

id integer NOT NULL,

mark character varying(50) NOT NULL,

name character varying(50) NOT NULL,

deposit double precision NOT NULL,

price double precision NOT NULL,

specification character varying(500) NOT NULL,

description character varying(500) NOT NULL,

release\_year integer NOT NULL,

CONSTRAINT ck\_deposit\_non\_negative CHECK ((deposit >= (0)::double precision)),

CONSTRAINT ck\_price\_non\_negative CHECK ((price >= (0)::double precision))

);

--

-- TOC entry 223 (class 1259 OID 25040)

-- Name: model\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.model\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3756 (class 0 OID 0)

-- Dependencies: 223

-- Name: model\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.model\_id\_seq OWNED BY public.model.id;

--

-- TOC entry 239 (class 1259 OID 25186)

-- Name: newcars; Type: VIEW; Schema: public; Owner: -

--

CREATE VIEW public.newcars AS

SELECT id,

model\_id,

special\_marks,

availability,

last\_service\_date,

mileage,

registration\_number,

engine\_id,

body\_id

FROM public.car

WHERE (NOT (id IN ( SELECT contract.car\_id

FROM public.contract)));

--

-- TOC entry 218 (class 1259 OID 25012)

-- Name: post; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.post (

id integer NOT NULL,

name character varying(50) NOT NULL,

salary double precision NOT NULL,

duties character varying(500) NOT NULL,

CONSTRAINT ck\_salary\_non\_negative CHECK ((salary >= (0)::double precision))

);

--

-- TOC entry 217 (class 1259 OID 25011)

-- Name: post\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.post\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3757 (class 0 OID 0)

-- Dependencies: 217

-- Name: post\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.post\_id\_seq OWNED BY public.post.id;

--

-- TOC entry 228 (class 1259 OID 25064)

-- Name: rent\_bid; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.rent\_bid (

id integer NOT NULL,

model\_id integer NOT NULL,

bid\_price double precision NOT NULL,

start\_date timestamp without time zone NOT NULL,

end\_date timestamp without time zone NOT NULL,

CONSTRAINT ck\_bid\_price\_non\_negative CHECK ((bid\_price >= (0)::double precision)),

CONSTRAINT ck\_start\_end\_dates CHECK ((start\_date <= end\_date))

);

--

-- TOC entry 227 (class 1259 OID 25063)

-- Name: rent\_bid\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.rent\_bid\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3758 (class 0 OID 0)

-- Dependencies: 227

-- Name: rent\_bid\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.rent\_bid\_id\_seq OWNED BY public.rent\_bid.id;

--

-- TOC entry 238 (class 1259 OID 25153)

-- Name: violation; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.violation (

id integer NOT NULL,

contract\_id integer NOT NULL,

car\_id integer NOT NULL,

type\_id integer NOT NULL,

accident\_id integer,

date timestamp without time zone NOT NULL,

payer character varying(50) NOT NULL,

CONSTRAINT ck\_payer CHECK (((payer)::text = ANY ((ARRAY['Company'::character varying, 'User'::character varying, 'Third-party'::character varying])::text[]))),

CONSTRAINT ck\_violation\_date CHECK ((date <= now()))

);

--

-- TOC entry 237 (class 1259 OID 25152)

-- Name: violation\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.violation\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3759 (class 0 OID 0)

-- Dependencies: 237

-- Name: violation\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.violation\_id\_seq OWNED BY public.violation.id;

--

-- TOC entry 216 (class 1259 OID 25002)

-- Name: violation\_type; Type: TABLE; Schema: public; Owner: -

--

CREATE TABLE public.violation\_type (

id integer NOT NULL,

name character varying(50) NOT NULL,

fine\_amount double precision NOT NULL,

disenfranchisement boolean NOT NULL,

CONSTRAINT ck\_fine\_amount\_non\_negative CHECK ((fine\_amount >= (0)::double precision))

);

--

-- TOC entry 215 (class 1259 OID 25001)

-- Name: violation\_type\_id\_seq; Type: SEQUENCE; Schema: public; Owner: -

--

CREATE SEQUENCE public.violation\_type\_id\_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

--

-- TOC entry 3760 (class 0 OID 0)

-- Dependencies: 215

-- Name: violation\_type\_id\_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: -

--

ALTER SEQUENCE public.violation\_type\_id\_seq OWNED BY public.violation\_type.id;

--

-- TOC entry 3513 (class 2604 OID 25140)

-- Name: accident id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.accident ALTER COLUMN id SET DEFAULT nextval('public.accident\_id\_seq'::regclass);

--

-- TOC entry 3510 (class 2604 OID 25081)

-- Name: car id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.car ALTER COLUMN id SET DEFAULT nextval('public.car\_id\_seq'::regclass);

--

-- TOC entry 3505 (class 2604 OID 25027)

-- Name: client id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.client ALTER COLUMN id SET DEFAULT nextval('public.client\_id\_seq'::regclass);

--

-- TOC entry 3511 (class 2604 OID 25097)

-- Name: contract id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.contract ALTER COLUMN id SET DEFAULT nextval('public.contract\_id\_seq'::regclass);

--

-- TOC entry 3508 (class 2604 OID 25055)

-- Name: employee id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.employee ALTER COLUMN id SET DEFAULT nextval('public.employee\_id\_seq'::regclass);

--

-- TOC entry 3512 (class 2604 OID 25127)

-- Name: extension\_contract id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.extension\_contract ALTER COLUMN id SET DEFAULT nextval('public.extension\_contract\_id\_seq'::regclass);

--

-- TOC entry 3506 (class 2604 OID 25036)

-- Name: insurance id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.insurance ALTER COLUMN id SET DEFAULT nextval('public.insurance\_id\_seq'::regclass);

--

-- TOC entry 3507 (class 2604 OID 25044)

-- Name: model id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.model ALTER COLUMN id SET DEFAULT nextval('public.model\_id\_seq'::regclass);

--

-- TOC entry 3504 (class 2604 OID 25015)

-- Name: post id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.post ALTER COLUMN id SET DEFAULT nextval('public.post\_id\_seq'::regclass);

--

-- TOC entry 3509 (class 2604 OID 25067)

-- Name: rent\_bid id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.rent\_bid ALTER COLUMN id SET DEFAULT nextval('public.rent\_bid\_id\_seq'::regclass);

--

-- TOC entry 3514 (class 2604 OID 25156)

-- Name: violation id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.violation ALTER COLUMN id SET DEFAULT nextval('public.violation\_id\_seq'::regclass);

--

-- TOC entry 3503 (class 2604 OID 25005)

-- Name: violation\_type id; Type: DEFAULT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.violation\_type ALTER COLUMN id SET DEFAULT nextval('public.violation\_type\_id\_seq'::regclass);

--

-- TOC entry 3740 (class 0 OID 25137)

-- Dependencies: 236

-- Data for Name: accident; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.accident VALUES (1, 1, '2023-10-01 00:00:00', true, 'Scratches', 1000);

--

-- TOC entry 3734 (class 0 OID 25078)

-- Dependencies: 230

-- Data for Name: car; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.car VALUES (1, 1, 'Scratch on the door', true, '2021-01-01 00:00:00', 1567, 'A123BC48', '1345gh', '1422jdf');

INSERT INTO public.car VALUES (2, 2, '', true, '2022-12-24 00:00:00', 100, 'A123BC49', '7328di', '9237isd');

INSERT INTO public.car VALUES (3, 3, '', true, '2023-02-08 00:00:00', 123, 'A273XA55', '1234df', '1234df');

INSERT INTO public.car VALUES (4, 4, '', true, '2021-12-31 00:00:00', 345, 'X244BC50', '1523jy', '1334sff');

INSERT INTO public.car VALUES (5, 5, 'Rust on the door', true, '2021-07-12 00:00:00', 3421, 'B213XE48', '1323rf', '1454fgf');

INSERT INTO public.car VALUES (7, 1, NULL, true, '2021-01-01 00:00:00', 0, 'A389BC58', '4324rt', '7849yui');

--

-- TOC entry 3724 (class 0 OID 25024)

-- Dependencies: 220

-- Data for Name: client; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.client VALUES (1, 'John', 'Doe', 'Smith', '123456', 'ABC123', '555-555-5555', 10);

INSERT INTO public.client VALUES (2, 'Alice', 'Johnson', 'Brown', '789012', 'XYZ789', '555-555-5556', 5);

INSERT INTO public.client VALUES (3, 'Sarah', 'Williams', 'Davis', '456789', 'LMN456', '555-555-5557', 8);

INSERT INTO public.client VALUES (4, 'Michael', 'Johnson', 'Miller', '987654', 'OPQ987', '555-555-5558', 12);

INSERT INTO public.client VALUES (5, 'Emily', 'Smith', 'Clark', '123987', 'RST123', '555-555-5559', 15);

--

-- TOC entry 3736 (class 0 OID 25094)

-- Dependencies: 232

-- Data for Name: contract; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.contract VALUES (1, 1, 2, 3, 'Active', '2023-10-01 00:00:00', '2023-10-15 12:00:00', 101, 145, 4, false);

INSERT INTO public.contract VALUES (2, 2, 3, 4, 'Done', '2023-09-15 00:00:00', '2023-09-30 18:30:00', 146, 174, 5, true);

INSERT INTO public.contract VALUES (3, 3, 4, 5, 'Canceled', '2023-08-01 00:00:00', '2023-08-10 09:45:00', 175, 200, 1, false);

INSERT INTO public.contract VALUES (4, 4, 5, 1, 'Active', '2023-07-05 00:00:00', '2023-07-20 15:20:00', 201, 225, 2, true);

INSERT INTO public.contract VALUES (5, 5, 1, 2, 'Done', '2023-06-10 00:00:00', '2023-06-25 08:00:00', 226, 250, 3, false);

INSERT INTO public.contract VALUES (6, 2, 3, 4, 'Canceled', '2023-05-15 00:00:00', '2023-05-30 14:45:00', 251, 275, 4, true);

INSERT INTO public.contract VALUES (7, 3, 4, 5, 'Active', '2023-04-20 00:00:00', '2023-04-30 11:30:00', 276, 300, 5, false);

INSERT INTO public.contract VALUES (8, 4, 5, 1, 'Done', '2023-03-01 00:00:00', '2023-03-15 17:10:00', 301, 325, 1, true);

INSERT INTO public.contract VALUES (9, 5, 1, 2, 'Canceled', '2023-02-10 00:00:00', '2023-02-20 10:20:00', 326, 350, 2, false);

--

-- TOC entry 3730 (class 0 OID 25052)

-- Dependencies: 226

-- Data for Name: employee; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.employee VALUES (1, 'John', 'Doe', 'Smith', 1);

INSERT INTO public.employee VALUES (2, 'Alice', 'Johnson', 'Brown', 2);

INSERT INTO public.employee VALUES (3, 'Sarah', 'Williams', 'Davis', 3);

INSERT INTO public.employee VALUES (4, 'Michael', 'Johnson', 'Miller', 4);

INSERT INTO public.employee VALUES (5, 'Emily', 'Smith', 'Clark', 5);

--

-- TOC entry 3738 (class 0 OID 25124)

-- Dependencies: 234

-- Data for Name: extension\_contract; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.extension\_contract VALUES (1, '2023-10-01 00:00:00', '2023-10-15 00:00:00', 1);

INSERT INTO public.extension\_contract VALUES (2, '2023-09-15 00:00:00', '2023-09-30 00:00:00', 2);

--

-- TOC entry 3726 (class 0 OID 25033)

-- Dependencies: 222

-- Data for Name: insurance; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.insurance VALUES (1, 'Liability', 100);

INSERT INTO public.insurance VALUES (2, 'Comprehensive', 200);

INSERT INTO public.insurance VALUES (3, 'Collision', 150);

INSERT INTO public.insurance VALUES (4, 'Uninsured Motorist', 80);

INSERT INTO public.insurance VALUES (5, 'Personal Injury Protection', 120);

--

-- TOC entry 3728 (class 0 OID 25041)

-- Dependencies: 224

-- Data for Name: model; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.model VALUES (1, 'Toyota', 'Camry', 500, 30000, 'Sedan', '4-door car', 2022);

INSERT INTO public.model VALUES (2, 'Ford', 'Focus', 400, 25000, 'Hatchback', '5-door car', 2021);

INSERT INTO public.model VALUES (3, 'Honda', 'Civic', 450, 28000, 'Sedan', '4-door car', 2022);

INSERT INTO public.model VALUES (4, 'Chevrolet', 'Malibu', 480, 29000, 'Sedan', '4-door car', 2021);

INSERT INTO public.model VALUES (5, 'Hyundai', 'Elantra', 460, 27000, 'Sedan', '4-door car', 2022);

--

-- TOC entry 3722 (class 0 OID 25012)

-- Dependencies: 218

-- Data for Name: post; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.post VALUES (1, 'Manager', 120000, 'Management duties');

INSERT INTO public.post VALUES (2, 'Technician', 60000, 'Technical duties');

INSERT INTO public.post VALUES (3, 'Customer Support', 45000, 'Assisting customers');

INSERT INTO public.post VALUES (4, 'Accountant', 70000, 'Financial management');

INSERT INTO public.post VALUES (5, 'Driver', 50000, 'Driving vehicles');

--

-- TOC entry 3732 (class 0 OID 25064)

-- Dependencies: 228

-- Data for Name: rent\_bid; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.rent\_bid VALUES (1, 1, 100, '2023-10-01 00:00:00', '2023-10-15 00:00:00');

INSERT INTO public.rent\_bid VALUES (3, 3, 150, '2023-10-01 00:00:00', '2023-10-15 00:00:00');

INSERT INTO public.rent\_bid VALUES (5, 5, 120, '2023-10-01 00:00:00', '2023-10-15 00:00:00');

INSERT INTO public.rent\_bid VALUES (2, 2, 180, '2023-09-15 00:00:00', '2023-09-30 00:00:00');

INSERT INTO public.rent\_bid VALUES (4, 4, 60, '2023-09-15 00:00:00', '2023-09-30 00:00:00');

--

-- TOC entry 3742 (class 0 OID 25153)

-- Dependencies: 238

-- Data for Name: violation; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.violation VALUES (1, 1, 1, 1, NULL, '2023-10-01 00:00:00', 'Company');

--

-- TOC entry 3720 (class 0 OID 25002)

-- Dependencies: 216

-- Data for Name: violation\_type; Type: TABLE DATA; Schema: public; Owner: -

--

INSERT INTO public.violation\_type VALUES (1, 'Speeding', 100, false);

INSERT INTO public.violation\_type VALUES (2, 'Parking Violation', 50, false);

INSERT INTO public.violation\_type VALUES (3, 'DUI', 500, true);

INSERT INTO public.violation\_type VALUES (4, 'Running a Red Light', 150, false);

INSERT INTO public.violation\_type VALUES (5, 'No Seatbelt', 25, false);

INSERT INTO public.violation\_type VALUES (6, 'Illegal U-Turn', 75, false);

INSERT INTO public.violation\_type VALUES (7, 'Driving without Insurance', 300, false);

--

-- TOC entry 3761 (class 0 OID 0)

-- Dependencies: 235

-- Name: accident\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.accident\_id\_seq', 1, true);

--

-- TOC entry 3762 (class 0 OID 0)

-- Dependencies: 229

-- Name: car\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.car\_id\_seq', 7, true);

--

-- TOC entry 3763 (class 0 OID 0)

-- Dependencies: 219

-- Name: client\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.client\_id\_seq', 5, true);

--

-- TOC entry 3764 (class 0 OID 0)

-- Dependencies: 231

-- Name: contract\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.contract\_id\_seq', 9, true);

--

-- TOC entry 3765 (class 0 OID 0)

-- Dependencies: 225

-- Name: employee\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.employee\_id\_seq', 5, true);

--

-- TOC entry 3766 (class 0 OID 0)

-- Dependencies: 233

-- Name: extension\_contract\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.extension\_contract\_id\_seq', 2, true);

--

-- TOC entry 3767 (class 0 OID 0)

-- Dependencies: 221

-- Name: insurance\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.insurance\_id\_seq', 5, true);

--

-- TOC entry 3768 (class 0 OID 0)

-- Dependencies: 223

-- Name: model\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.model\_id\_seq', 5, true);

--

-- TOC entry 3769 (class 0 OID 0)

-- Dependencies: 217

-- Name: post\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.post\_id\_seq', 5, true);

--

-- TOC entry 3770 (class 0 OID 0)

-- Dependencies: 227

-- Name: rent\_bid\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.rent\_bid\_id\_seq', 5, true);

--

-- TOC entry 3771 (class 0 OID 0)

-- Dependencies: 237

-- Name: violation\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.violation\_id\_seq', 2, true);

--

-- TOC entry 3772 (class 0 OID 0)

-- Dependencies: 215

-- Name: violation\_type\_id\_seq; Type: SEQUENCE SET; Schema: public; Owner: -

--

SELECT pg\_catalog.setval('public.violation\_type\_id\_seq', 7, true);

--

-- TOC entry 3559 (class 2606 OID 25146)

-- Name: accident accident\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.accident

ADD CONSTRAINT accident\_pkey PRIMARY KEY (id);

--

-- TOC entry 3551 (class 2606 OID 25085)

-- Name: car car\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.car

ADD CONSTRAINT car\_pkey PRIMARY KEY (id);

--

-- TOC entry 3539 (class 2606 OID 25029)

-- Name: client client\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.client

ADD CONSTRAINT client\_pkey PRIMARY KEY (id);

--

-- TOC entry 3555 (class 2606 OID 25102)

-- Name: contract contract\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.contract

ADD CONSTRAINT contract\_pkey PRIMARY KEY (id);

--

-- TOC entry 3547 (class 2606 OID 25057)

-- Name: employee employee\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.employee

ADD CONSTRAINT employee\_pkey PRIMARY KEY (id);

--

-- TOC entry 3557 (class 2606 OID 25130)

-- Name: extension\_contract extension\_contract\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.extension\_contract

ADD CONSTRAINT extension\_contract\_pkey PRIMARY KEY (id);

--

-- TOC entry 3543 (class 2606 OID 25039)

-- Name: insurance insurance\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.insurance

ADD CONSTRAINT insurance\_pkey PRIMARY KEY (id);

--

-- TOC entry 3545 (class 2606 OID 25050)

-- Name: model model\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.model

ADD CONSTRAINT model\_pkey PRIMARY KEY (id);

--

-- TOC entry 3535 (class 2606 OID 25020)

-- Name: post post\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.post

ADD CONSTRAINT post\_pkey PRIMARY KEY (id);

--

-- TOC entry 3549 (class 2606 OID 25071)

-- Name: rent\_bid rent\_bid\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.rent\_bid

ADD CONSTRAINT rent\_bid\_pkey PRIMARY KEY (id);

--

-- TOC entry 3553 (class 2606 OID 25087)

-- Name: car uq\_car\_registration\_number; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.car

ADD CONSTRAINT uq\_car\_registration\_number UNIQUE (registration\_number);

--

-- TOC entry 3541 (class 2606 OID 25031)

-- Name: client uq\_client\_passport\_info; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.client

ADD CONSTRAINT uq\_client\_passport\_info UNIQUE (passport\_info);

--

-- TOC entry 3537 (class 2606 OID 25022)

-- Name: post uq\_post\_name; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.post

ADD CONSTRAINT uq\_post\_name UNIQUE (name);

--

-- TOC entry 3531 (class 2606 OID 25010)

-- Name: violation\_type uq\_violation\_type\_name; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.violation\_type

ADD CONSTRAINT uq\_violation\_type\_name UNIQUE (name);

--

-- TOC entry 3561 (class 2606 OID 25160)

-- Name: violation violation\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.violation

ADD CONSTRAINT violation\_pkey PRIMARY KEY (id);

--

-- TOC entry 3533 (class 2606 OID 25008)

-- Name: violation\_type violation\_type\_pkey; Type: CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.violation\_type

ADD CONSTRAINT violation\_type\_pkey PRIMARY KEY (id);

--

-- TOC entry 3570 (class 2606 OID 25147)

-- Name: accident accident\_contract\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.accident

ADD CONSTRAINT accident\_contract\_id\_fkey FOREIGN KEY (contract\_id) REFERENCES public.contract(id);

--

-- TOC entry 3564 (class 2606 OID 25088)

-- Name: car car\_model\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.car

ADD CONSTRAINT car\_model\_id\_fkey FOREIGN KEY (model\_id) REFERENCES public.model(id);

--

-- TOC entry 3565 (class 2606 OID 25113)

-- Name: contract contract\_car\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.contract

ADD CONSTRAINT contract\_car\_id\_fkey FOREIGN KEY (car\_id) REFERENCES public.car(id);

--

-- TOC entry 3566 (class 2606 OID 25103)

-- Name: contract contract\_client\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.contract

ADD CONSTRAINT contract\_client\_id\_fkey FOREIGN KEY (client\_id) REFERENCES public.client(id);

--

-- TOC entry 3567 (class 2606 OID 25108)

-- Name: contract contract\_employee\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.contract

ADD CONSTRAINT contract\_employee\_id\_fkey FOREIGN KEY (employee\_id) REFERENCES public.employee(id);

--

-- TOC entry 3568 (class 2606 OID 25118)

-- Name: contract contract\_insurance\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.contract

ADD CONSTRAINT contract\_insurance\_id\_fkey FOREIGN KEY (insurance\_id) REFERENCES public.insurance(id);

--

-- TOC entry 3562 (class 2606 OID 25058)

-- Name: employee employee\_post\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.employee

ADD CONSTRAINT employee\_post\_id\_fkey FOREIGN KEY (post\_id) REFERENCES public.post(id);

--

-- TOC entry 3569 (class 2606 OID 25131)

-- Name: extension\_contract extension\_contract\_contract\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.extension\_contract

ADD CONSTRAINT extension\_contract\_contract\_id\_fkey FOREIGN KEY (contract\_id) REFERENCES public.contract(id);

--

-- TOC entry 3563 (class 2606 OID 25072)

-- Name: rent\_bid rent\_bid\_model\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.rent\_bid

ADD CONSTRAINT rent\_bid\_model\_id\_fkey FOREIGN KEY (model\_id) REFERENCES public.model(id);

--

-- TOC entry 3571 (class 2606 OID 25176)

-- Name: violation violation\_accident\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.violation

ADD CONSTRAINT violation\_accident\_id\_fkey FOREIGN KEY (accident\_id) REFERENCES public.accident(id);

--

-- TOC entry 3572 (class 2606 OID 25166)

-- Name: violation violation\_car\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.violation

ADD CONSTRAINT violation\_car\_id\_fkey FOREIGN KEY (car\_id) REFERENCES public.car(id);

--

-- TOC entry 3573 (class 2606 OID 25161)

-- Name: violation violation\_contract\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.violation

ADD CONSTRAINT violation\_contract\_id\_fkey FOREIGN KEY (contract\_id) REFERENCES public.contract(id);

--

-- TOC entry 3574 (class 2606 OID 25171)

-- Name: violation violation\_type\_id\_fkey; Type: FK CONSTRAINT; Schema: public; Owner: -

--

ALTER TABLE ONLY public.violation

ADD CONSTRAINT violation\_type\_id\_fkey FOREIGN KEY (type\_id) REFERENCES public.violation\_type(id);

-- Completed on 2024-02-29 22:00:48 MSK

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-- PostgreSQL database dump complete

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