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«НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО»

Отчет

по лабораторной работе №3 «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 1X, заполнения их рабочими данными, резервного копирования и восстановления БД.

Практическое задание

Создать базу данных с использованием pgAdmin 4 (согласно индивидуальному заданию).

1. Создать схему в составе базы данных.
2. Создать таблицы базы данных.
3. Установить ограничения на данные: *Primary Key, Unique, Check, Foreign Key*.
4. Заполнить таблицы БД рабочими данными.
5. 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* .
7. Восстановить БД.

Вариант 18. БД «ГИБДД»

Описание предметной области:

Описание предметной области: ГИБДД производит регистрацию автомобилей и следит за безопасностью дорожного движения. БД служит для ведения статистики нарушений правил дорожного движения и аварий. В одной аварии водитель может нарушить несколько ПДД. У одной аварии может быть несколько участников – виновников и потерпевших. Статус участника аварии может быть неопределенным. В системе должна храниться история штрафов водителей за нарушения ПДД и статус их оплаты.

БД должна содержать следующий минимальный набор сведений: Номер водительского удостоверения. ФИО водителя. Адрес. Номер телефона. Номер автомобиля. Марка автомобиля. Модель автомобиля. Год выпуска. Дата регистрации в ГИБДД. Код нарушения. Вид нарушения. Сумма штрафа. Срок лишения прав управления автомобилем. Дата нарушения. Время нарушения. Район аварии/нарушения. Улица аварии/нарушения.

Личный номер инспектора. ФИО инспектора. Дата аварии. Виновность владельца.
Описание аварии.

Выполнение

Название создаваемой БД – «ГИБДД» («Police department»)

Схема логической модели базы данных, сгенерированная в Generate ERD, находится на рисунке 1.

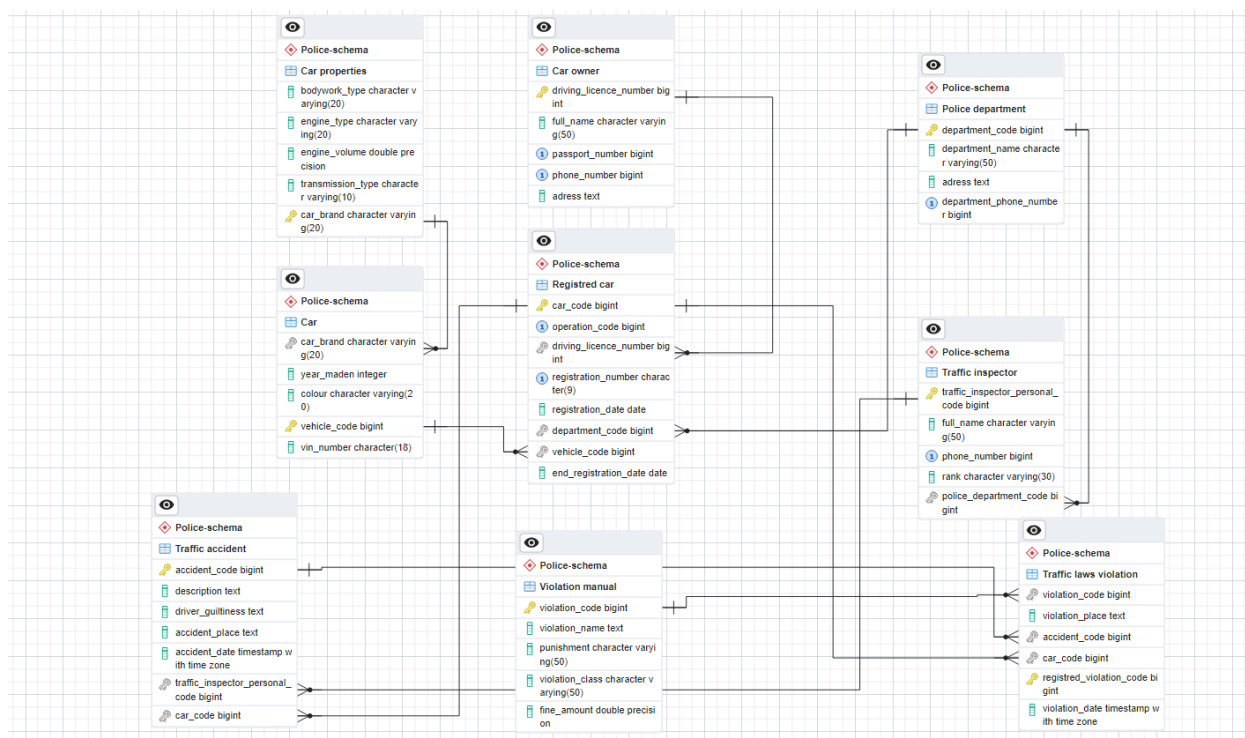


Рисунок 1 — ERD-схема базы данных

Plain-dump в конце отчета

После создания базы данных ГИБДД, содержащей 9 таблиц, была сделана ее резервная копия. Составные ключи были переделаны с помощью новых суррогатных.

Вывод

В данной лабораторной работе выполнен перенос базы данных с нотации IDEF1X в PGAdmin 4. По ходу данной работы я изучил основы языка SQL, заполнил таблицы несколькими строками данных, создал 2 резервных копии своей базы данных, затем восстановил одну из них, тем самым проверил ее работоспособность. С помощью другой копии можно быстро найти код для создания/восстановления таблиц или базы данных.

```
--
-- PostgreSQL database dump
--

-- Dumped from database version 16.0
-- Dumped by pg_dump version 16.0

-- Started on 2023-10-28 16:24:38

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 6 (class 2615 OID 16404)
-- Name: Police-schema; Type: SCHEMA; Schema: -; Owner: postgres
--

CREATE SCHEMA "Police-schema";

ALTER SCHEMA "Police-schema" OWNER TO postgres;

SET default_tablespace = '';

SET default_table_access_method = heap;

--
-- TOC entry 232 (class 1259 OID 16641)
-- Name: Car; Type: TABLE; Schema: Police-schema; Owner: postgres
--

CREATE TABLE "Police-schema"."Car" (
```

```

car_brand character varying(20) NOT NULL,
year_maden integer NOT NULL,
colour character varying(20) NOT NULL,
vehicle_code bigint NOT NULL,
vin_number character(18),
CONSTRAINT "Car_vehicle_code_check" CHECK ((vehicle_code > 0)),
CONSTRAINT "Car_vin_number_check" CHECK ((vin_number ~ '[0123456789ABCDEFGHJKLMNPRSTUVWXYZ]{17}'::text)),
CONSTRAINT "Car_year_maden_check" CHECK ((year_maden > ((1800 - 1) - 1)))
);

```

```

ALTER TABLE "Police-schema"."Car" OWNER TO postgres;

```

```

--
-- TOC entry 4991 (class 0 OID 0)
-- Dependencies: 232
-- Name: TABLE "Car"; Type: COMMENT; Schema: Police-schema; Owner: postgres
--

```

```

COMMENT ON TABLE "Police-schema"."Car" IS 'Info about driver's vehicle';

```

```

--
-- TOC entry 216 (class 1259 OID 16412)
-- Name: Car owner; Type: TABLE; Schema: Police-schema; Owner: postgres
--

```

```

CREATE TABLE "Police-schema"."Car owner" (
    driving_licence_number bigint NOT NULL,
    full_name character varying(50) NOT NULL,
    passport_number bigint NOT NULL,
    phone_number bigint NOT NULL,
    adress text NOT NULL,
    CONSTRAINT "Car owner_driving_licence_number_check" CHECK ((driving_licence_number > 0)),
    CONSTRAINT "Car owner_passport_number_check" CHECK ((passport_number > 0))
);

```

```

ALTER TABLE "Police-schema"."Car owner" OWNER TO postgres;

```

```

--
-- TOC entry 4992 (class 0 OID 0)
-- Dependencies: 216
-- Name: TABLE "Car owner"; Type: COMMENT; Schema: Police-schema; Owner: postgres
--

```

```

COMMENT ON TABLE "Police-schema"."Car owner" IS 'Information about car's owner, his passport, phone numbers, etc.';

```

```

--

```

```

-- TOC entry 233 (class 1259 OID 16653)
-- Name: Car properties; Type: TABLE; Schema: Police-schema; Owner: postgres
--

CREATE TABLE "Police-schema"."Car properties" (
    bodywork_type character varying(20) NOT NULL,
    engine_type character varying(20) NOT NULL,
    engine_volume double precision NOT NULL,
    transmission_type character varying(10) NOT NULL,
    car_brand character varying(20) NOT NULL,
    CONSTRAINT "Car properties_engine_volume_check" CHECK ((engine_volume > (0)::double precision)),
    CONSTRAINT "Car properties_engine_volume_check1" CHECK (((engine_volume > (0)::double precision) AND (engine_volume < (30)::double
precision))))
);

ALTER TABLE "Police-schema"."Car properties" OWNER TO postgres;

--
-- TOC entry 4993 (class 0 OID 0)
-- Dependencies: 233
-- Name: TABLE "Car properties"; Type: COMMENT; Schema: Police-schema; Owner: postgres
--

COMMENT ON TABLE "Police-schema"."Car properties" IS 'Manual with data about vehicle properties';

--
-- TOC entry 234 (class 1259 OID 16817)
-- Name: Car_vehicle_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
--

CREATE SEQUENCE "Police-schema"."Car_vehicle_code_seq"
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;

ALTER SEQUENCE "Police-schema"."Car_vehicle_code_seq" OWNER TO postgres;

--
-- TOC entry 4994 (class 0 OID 0)
-- Dependencies: 234
-- Name: Car_vehicle_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

ALTER SEQUENCE "Police-schema"."Car_vehicle_code_seq" OWNED BY "Police-schema"."Car".vehicle_code;

```

```

--
-- TOC entry 222 (class 1259 OID 16452)
-- Name: Traffic inspector; Type: TABLE; Schema: Police-schema; Owner: postgres
--

CREATE TABLE "Police-schema"."Traffic inspector" (
    traffic_inspector_personal_code bigint NOT NULL,
    full_name character varying(50),
    phone_number bigint,
    rank character varying(30),
    police_department_code bigint NOT NULL,
    CONSTRAINT "Traffic inspector_phone_number_check" CHECK ((phone_number > 0)),
    CONSTRAINT "Traffic inspector_police_department_code_check" CHECK ((police_department_code > 0)),
    CONSTRAINT "Traffic inspector_traffic_inspector_personal_code_check" CHECK ((traffic_inspector_personal_code > 0))
);

ALTER TABLE "Police-schema"."Traffic inspector" OWNER TO postgres;

--
-- TOC entry 4995 (class 0 OID 0)
-- Dependencies: 222
-- Name: TABLE "Traffic inspector"; Type: COMMENT; Schema: Police-schema; Owner: postgres
--

COMMENT ON TABLE "Police-schema"."Traffic inspector" IS 'Information about traffic inspector, his personal data';

--
-- TOC entry 220 (class 1259 OID 16450)
-- Name: Traffic inspector_traffic_inspector_personal_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
--

CREATE SEQUENCE "Police-schema"."Traffic inspector_traffic_inspector_personal_code_seq"
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;

ALTER SEQUENCE "Police-schema"."Traffic inspector_traffic_inspector_personal_code_seq" OWNER TO postgres;

--
-- TOC entry 4996 (class 0 OID 0)
-- Dependencies: 220
-- Name: Traffic inspector_traffic_inspector_personal_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

```



```
ALTER SEQUENCE "Police-schema"."Traffic inspector_traffic_inspector_personal_code_seq" OWNED BY "Police-schema"."Traffic
inspector".traffic_inspector_personal_code;
```

```
--
```

```
-- TOC entry 219 (class 1259 OID 16430)
```

```
-- Name: Police department; Type: TABLE; Schema: Police-schema; Owner: postgres
```

```
--
```

```
CREATE TABLE "Police-schema"."Police department" (
    department_code bigint DEFAULT nextval("Police-schema"."Traffic inspector_traffic_inspector_personal_code_seq"::regclass) NOT NULL,
    department_name character varying(50) NOT NULL,
    adress text NOT NULL,
    department_phone_number bigint NOT NULL,
    CONSTRAINT "Police department_department_code_check" CHECK ((department_code > 0)),
    CONSTRAINT "Police department_department_phone_number_check" CHECK ((department_phone_number > 0))
);
```

```
ALTER TABLE "Police-schema"."Police department" OWNER TO postgres;
```

```
--
```

```
-- TOC entry 4997 (class 0 OID 0)
```

```
-- Dependencies: 219
```

```
-- Name: TABLE "Police department"; Type: COMMENT; Schema: Police-schema; Owner: postgres
```

```
--
```

```
COMMENT ON TABLE "Police-schema"."Police department" IS 'Information about police department';
```

```
--
```

```
-- TOC entry 228 (class 1259 OID 16506)
```

```
-- Name: Registred car; Type: TABLE; Schema: Police-schema; Owner: postgres
```

```
--
```

```
CREATE TABLE "Police-schema"."Registred car" (
    car_code bigint NOT NULL,
    operation_code bigint NOT NULL,
    driving_licence_number bigint NOT NULL,
    registration_number character(9) NOT NULL,
    registration_date date NOT NULL,
    department_code bigint NOT NULL,
    vehicle_code bigint NOT NULL,
    end_registration_date date NOT NULL,
    CONSTRAINT "Registred car_car_code_check" CHECK ((car_code > 0)),
    CONSTRAINT "Registred car_check" CHECK ((registration_date <= end_registration_date)),
    CONSTRAINT "Registred car_driving_licence_number_check" CHECK ((driving_licence_number > 0)),
    CONSTRAINT "Registred car_operation_code_check" CHECK ((operation_code > 0)),
    CONSTRAINT "Registred car_registration_date_check" CHECK ((registration_date > '1950-01-01'::date)),
    CONSTRAINT "Registred car_registration_number_check" CHECK ((registration_number ~* '[ABEKMHOPTXABEKMHOPTX]{1}[0-9]{3}
```

```
[ABEKMHOPTYXAБEKMHOPTYX]{2}[0-9]{2,3}'::text))
```

```
);
```

```
ALTER TABLE "Police-schema"."Registred car" OWNER TO postgres;
```

```
--
```

```
-- TOC entry 4998 (class 0 OID 0)
```

```
-- Dependencies: 228
```

```
-- Name: TABLE "Registred car"; Type: COMMENT; Schema: Police-schema; Owner: postgres
```

```
--
```

```
COMMENT ON TABLE "Police-schema"."Registred car" IS 'This table contains info about registered vehicle: country number, date and department of registration';
```

```
--
```

```
-- TOC entry 226 (class 1259 OID 16503)
```

```
-- Name: Registred car_car_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
```

```
--
```

```
CREATE SEQUENCE "Police-schema"."Registred car_car_code_seq"
```

```
START WITH 1
```

```
INCREMENT BY 1
```

```
NO MINVALUE
```

```
NO MAXVALUE
```

```
CACHE 1;
```

```
ALTER SEQUENCE "Police-schema"."Registred car_car_code_seq" OWNER TO postgres;
```

```
--
```

```
-- TOC entry 4999 (class 0 OID 0)
```

```
-- Dependencies: 226
```

```
-- Name: Registred car_car_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
```

```
--
```

```
ALTER SEQUENCE "Police-schema"."Registred car_car_code_seq" OWNED BY "Police-schema"."Registred car".car_code;
```

```
--
```

```
-- TOC entry 227 (class 1259 OID 16504)
```

```
-- Name: Registred car_operation_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
```

```
--
```

```
CREATE SEQUENCE "Police-schema"."Registred car_operation_code_seq"
```

```
START WITH 1
```

```
INCREMENT BY 1
```

```
NO MINVALUE
```

```
NO MAXVALUE
```

```

CACHE 1;

ALTER SEQUENCE "Police-schema"."Registered car_operation_code_seq" OWNER TO postgres;

--
-- TOC entry 5000 (class 0 OID 0)
-- Dependencies: 227
-- Name: Registered car_operation_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

ALTER SEQUENCE "Police-schema"."Registered car_operation_code_seq" OWNED BY "Police-schema"."Registered car".operation_code;

--
-- TOC entry 225 (class 1259 OID 16489)
-- Name: Traffic accident; Type: TABLE; Schema: Police-schema; Owner: postgres
--

CREATE TABLE "Police-schema"."Traffic accident" (
    accident_code bigint NOT NULL,
    description text NOT NULL,
    driver_guiltiness text NOT NULL,
    accident_place text NOT
NULL,
    accident_date timestamp with time zone NOT NULL,
    traffic_inspector_personal_code bigint NOT NULL,
    car_code bigint NOT NULL,
    CONSTRAINT "Traffic accident_accident_code_check" CHECK ((accident_code > 0)),
    CONSTRAINT "Traffic accident_accident_date_check" CHECK ((accident_date > '1950-01-01'::date)),
    CONSTRAINT "Traffic accident_car_code_check" CHECK ((car_code > 0)),
    CONSTRAINT "Traffic accident_traffic_inspector_personal_code_check" CHECK ((traffic_inspector_personal_code > 0))
);

ALTER TABLE "Police-schema"."Traffic accident" OWNER TO postgres;

--
-- TOC entry 5001 (class 0 OID 0)
-- Dependencies: 225
-- Name: TABLE "Traffic accident"; Type: COMMENT; Schema: Police-schema; Owner: postgres
--

COMMENT ON TABLE "Police-schema"."Traffic accident" IS 'Info about traffic accidents';

--
-- TOC entry 223 (class 1259 OID 16487)
-- Name: Traffic accident_accident_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
--

```

```

CREATE SEQUENCE "Police-schema"."Traffic accident_accident_code_seq"
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;

ALTER SEQUENCE "Police-schema"."Traffic accident_accident_code_seq" OWNER TO postgres;

--
-- TOC entry 5002 (class 0 OID 0)
-- Dependencies: 223
-- Name: Traffic accident_accident_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

ALTER SEQUENCE "Police-schema"."Traffic accident_accident_code_seq" OWNED BY "Police-schema"."Traffic accident".accident_code;

--
-- TOC entry 224 (class 1259 OID 16488)
-- Name: Traffic accident_traffic_inspector_personal_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
--

CREATE SEQUENCE "Police-schema"."Traffic accident_traffic_inspector_personal_code_seq"
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;

ALTER SEQUENCE "Police-schema"."Traffic accident_traffic_inspector_personal_code_seq" OWNER TO postgres;

--
-- TOC entry 5003 (class 0 OID 0)
-- Dependencies: 224
-- Name: Traffic accident_traffic_inspector_personal_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

ALTER SEQUENCE "Police-schema"."Traffic accident_traffic_inspector_personal_code_seq" OWNED BY "Police-schema"."Traffic
accident".traffic_inspector_personal_code;

--
-- TOC entry 221 (class 1259 OID 16451)
-- Name: Traffic inspector_police_department_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
--

```

```

CREATE SEQUENCE "Police-schema"."Traffic inspector_police_department_code_seq"
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;

ALTER SEQUENCE "Police-schema"."Traffic inspector_police_department_code_seq" OWNER TO postgres;

--
-- TOC entry 5004 (class 0 OID 0)
-- Dependencies: 221
-- Name: Traffic inspector_police_department_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

ALTER SEQUENCE "Police-schema"."Traffic inspector_police_department_code_seq" OWNED BY "Police-schema"."Traffic
inspector".police_department_code;

--
-- TOC entry 231 (class 1259 OID 16608)
-- Name: Traffic laws violation; Type: TABLE; Schema: Police-schema; Owner: postgres
--

CREATE TABLE "Police-schema"."Traffic laws violation" (
    violation_code bigint NOT NULL,
    violation_place text NOT NULL,
    accident_code bigint,
    car_code bigint NOT NULL,
    registred_violation_code bigint NOT NULL,
    violation_date timestamp with time zone NOT NULL,
    CONSTRAINT "Traffic laws violation_accident_code_check" CHECK ((accident_code > 0)),
    CONSTRAINT "Traffic laws violation_car_code_check" CHECK ((car_code > 0)),
    CONSTRAINT "Traffic laws violation_registred_violation_code_check" CHECK ((registred_violation_code > 0)),
    CONSTRAINT "Traffic laws violation_violation_code_check" CHECK ((violation_code > 0))
);

ALTER TABLE "Police-schema"."Traffic laws violation" OWNER TO postgres;

--
-- TOC entry 5005 (class 0 OID 0)
-- Dependencies: 231
-- Name: TABLE "Traffic laws violation"; Type: COMMENT; Schema: Police-schema; Owner: postgres
--

COMMENT ON TABLE "Police-schema"."Traffic laws violation" IS 'Info about Traffic violation and punishment for them';

```

```

--
-- TOC entry 229 (class 1259 OID 16606)
-- Name: Traffic laws violation_accident_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
--

CREATE SEQUENCE "Police-schema"."Traffic laws violation_accident_code_seq"
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;

ALTER SEQUENCE "Police-schema"."Traffic laws violation_accident_code_seq" OWNER TO postgres;

--
-- TOC entry 5006 (class 0 OID 0)
-- Dependencies: 229
-- Name: Traffic laws violation_accident_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

ALTER SEQUENCE "Police-schema"."Traffic laws violation_accident_code_seq" OWNED BY "Police-schema"."Traffic laws
violation".accident_code;

--
-- TOC entry 230 (class 1259 OID 16607)
-- Name: Traffic laws violation_car_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
--

CREATE SEQUENCE "Police-schema"."Traffic laws violation_car_code_seq"
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;

ALTER SEQUENCE "Police-schema"."Traffic laws violation_car_code_seq" OWNER TO postgres;

--
-- TOC entry 5007 (class 0 OID 0)
-- Dependencies: 230
-- Name: Traffic laws violation_car_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

ALTER SEQUENCE "Police-schema"."Traffic laws violation_car_code_seq" OWNED BY "Police-schema"."Traffic laws violation".car_code;

--

```

```

-- TOC entry 235 (class 1259 OID 16866)
-- Name: Traffic laws violation_registered_violation_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
--

CREATE SEQUENCE "Police-schema"."Traffic laws violation_registered_violation_code_seq"
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;

ALTER SEQUENCE "Police-schema"."Traffic laws violation_registered_violation_code_seq" OWNER TO postgres;

--

-- TOC entry 5008 (class 0 OID 0)
-- Dependencies: 235
-- Name: Traffic laws violation_registered_violation_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

ALTER SEQUENCE "Police-schema"."Traffic laws violation_registered_violation_code_seq" OWNED BY "Police-schema"."Traffic laws
violation".registred_violation_code;

--

-- TOC entry 218 (class 1259 OID 16422)
-- Name: Violation manual; Type: TABLE; Schema: Police-schema; Owner: postgres
--

CREATE TABLE "Police-schema"."Violation manual" (
  violation_code bigint NOT NULL,
  violation_name text NOT NULL,
  punishment character varying(50) NOT NULL,
  violation_class character varying(50) NOT NULL,
  fine_amount double precision NOT NULL,
  CONSTRAINT "Violation manual_violation_code_check" CHECK ((violation_code > 0))
);

ALTER TABLE "Police-schema"."Violation manual" OWNER TO postgres;

--

-- TOC entry 5009 (class 0 OID 0)
-- Dependencies: 218
-- Name: TABLE "Violation manual"; Type: COMMENT; Schema: Police-schema; Owner: postgres
--

COMMENT ON TABLE "Police-schema"."Violation manual" IS 'Manual contains information about defferent types of violation, their discription
and punishment';

```

```

--
-- TOC entry 217 (class 1259 OID 16421)
-- Name: Violation manual_violation_code_seq; Type: SEQUENCE; Schema: Police-schema; Owner: postgres
--

CREATE SEQUENCE "Police-schema"."Violation manual_violation_code_seq"
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;

ALTER SEQUENCE "Police-schema"."Violation manual_violation_code_seq" OWNER TO postgres;

--
-- TOC entry 5010 (class 0 OID 0)
-- Dependencies: 217
-- Name: Violation manual_violation_code_seq; Type: SEQUENCE OWNED BY; Schema: Police-schema; Owner: postgres
--

ALTER SEQUENCE "Police-schema"."Violation manual_violation_code_seq" OWNED BY "Police-schema"."Violation manual".violation_code;

--
-- TOC entry 4737 (class 2604 OID 16983)
-- Name: Car vehicle_code; Type: DEFAULT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Car" ALTER COLUMN vehicle_code SET DEFAULT nextval("Police-schema"."Car_vehicle_code_seq"::regclass);

--
-- TOC entry 4735 (class 2604 OID 16984)
-- Name: Registred car car_code; Type: DEFAULT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Registred car" ALTER COLUMN car_code SET DEFAULT nextval("Police-schema"."Registred car_car_code_seq"::regclass);

--
-- TOC entry 4734 (class 2604 OID 16985)
-- Name: Traffic accident accident_code; Type: DEFAULT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic accident" ALTER COLUMN accident_code SET DEFAULT nextval("Police-schema"."Traffic accident_accident_code_seq"::regclass);

```



```

--
-- TOC entry 4733 (class 2604 OID 16986)
-- Name: Traffic inspector traffic_inspector_personal_code; Type: DEFAULT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic inspector" ALTER COLUMN traffic_inspector_personal_code SET DEFAULT nextval('"Police-
schema"."Traffic inspector_traffic_inspector_personal_code_seq"::regclass);

--
-- TOC entry 4736 (class 2604 OID 16987)
-- Name: Traffic laws violation registred_violation_code; Type: DEFAULT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic laws violation" ALTER COLUMN registred_violation_code SET DEFAULT nextval('"Police-
schema"."Traffic laws violation_registed_violation_code_seq"::regclass);

--
-- TOC entry 4731 (class 2604 OID 16988)
-- Name: Violation manual violation_code; Type: DEFAULT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Violation manual" ALTER COLUMN violation_code SET DEFAULT nextval('"Police-schema"."Violation
manual_violation_code_seq"::regclass);

--
-- TOC entry 4982 (class 0 OID 16641)
-- Dependencies:
232
-- Data for Name: Car; Type: TABLE DATA; Schema: Police-schema; Owner: postgres
--

COPY "Police-schema"."Car" (car_brand, year_maden, colour, vehicle_code, vin_number) FROM stdin;
\

--
-- TOC entry 4966 (class 0 OID 16412)
-- Dependencies: 216
-- Data for Name: Car owner; Type: TABLE DATA; Schema: Police-schema; Owner: postgres
--

COPY "Police-schema"."Car owner" (driving_licence_number, full_name, passport_number, phone_number, adress) FROM stdin;
\

```

```

--
-- TOC entry 4983 (class 0 OID 16653)
-- Dependencies: 233
-- Data for Name: Car properties; Type: TABLE DATA; Schema: Police-schema; Owner: postgres
--

COPY "Police-schema"."Car properties" (bodywork_type, engine_type, engine_volume, transmission_type, car_brand) FROM stdin;
\.
```

```

--
-- TOC entry 4969 (class 0 OID 16430)
-- Dependencies: 219
-- Data for Name: Police department; Type: TABLE DATA; Schema: Police-schema; Owner: postgres
--

COPY "Police-schema"."Police department" (department_code, department_name, adress, department_phone_number) FROM stdin;
1      erggregrerge      gerge      313
2      eggergregrgreger      131
3      egrgregrgggergre      1313
\.
```

```

--
-- TOC entry 4978 (class 0 OID 16506)
-- Dependencies: 228
-- Data for Name: Registered car; Type: TABLE DATA; Schema: Police-schema; Owner: postgres
--

COPY "Police-schema"."Registred car" (car_code, operation_code, driving_licence_number, registration_number, registration_date,
department_code, vehicle_code, end_registration_date) FROM stdin;
\.
```

```

--
-- TOC entry 4975 (class 0 OID 16489)
-- Dependencies: 225
-- Data for Name: Traffic accident; Type: TABLE DATA; Schema: Police-schema; Owner: postgres
--

COPY "Police-schema"."Traffic accident" (accident_code, description, driver_guiltiness, accident_place, accident_date,
traffic_inspector_personal_code, car_code) FROM stdin;
\.
```

```

--
-- TOC entry 4972 (class 0 OID 16452)
-- Dependencies: 222
-- Data for Name: Traffic inspector; Type: TABLE DATA; Schema: Police-schema; Owner: postgres
--

```

```
COPY "Police-schema"."Traffic inspector" (traffic_inspector_personal_code, full_name, phone_number, rank, police_department_code) FROM
stdin;
```

```
\.
```

```
--
```

```
-- TOC entry 4981 (class 0 OID 16608)
```

```
-- Dependencies: 231
```

```
-- Data for Name: Traffic laws violation; Type: TABLE DATA; Schema: Police-schema; Owner: postgres
```

```
--
```

```
COPY "Police-schema"."Traffic laws violation" (violation_code, violation_place, accident_code, car_code, registred_violation_code,
violation_date) FROM stdin;
```

```
\.
```

```
--
```

```
-- TOC entry 4968 (class 0 OID 16422)
```

```
-- Dependencies: 218
```

```
-- Data for Name: Violation manual; Type: TABLE DATA; Schema: Police-schema; Owner: postgres
```

```
--
```

```
COPY "Police-schema"."Violation manual" (violation_code, violation_name, punishment, violation_class, fine_amount) FROM stdin;
```

```
\.
```

```
--
```

```
-- TOC entry 5011 (class 0 OID 0)
```

```
-- Dependencies: 234
```

```
-- Name: Car_vehicle_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
```

```
--
```

```
SELECT pg_catalog.setval('"Police-schema"."Car_vehicle_code_seq"', 3, true);
```

```
--
```

```
-- TOC entry 5012 (class 0 OID 0)
```

```
-- Dependencies: 226
```

```
-- Name: Registred car_car_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
```

```
--
```

```
SELECT pg_catalog.setval('"Police-schema"."Registred car_car_code_seq"', 2, true);
```

```
--
```

```
-- TOC entry 5013 (class 0 OID 0)
```

```
-- Dependencies: 227
```

```
-- Name: Registred car_operation_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
```

```
--
```

```

SELECT pg_catalog.setval('"Police-schema"."Registred car_operation_code_seq"', 2, true);

--
-- TOC entry 5014 (class 0 OID 0)
-- Dependencies: 223
-- Name: Traffic accident_accident_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
--

SELECT pg_catalog.setval('"Police-schema"."Traffic accident_accident_code_seq"', 5, true);

--
-- TOC entry 5015 (class 0 OID 0)
-- Dependencies: 224
-- Name: Traffic accident_traffic_inspector_personal_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
--

SELECT pg_catalog.setval('"Police-schema"."Traffic accident_traffic_inspector_personal_code_seq"', 2, true);

--
-- TOC entry 5016 (class 0 OID 0)
-- Dependencies: 221
-- Name: Traffic inspector_police_department_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
--

SELECT pg_catalog.setval('"Police-schema"."Traffic inspector_police_department_code_seq"', 2, true);

--
-- TOC entry 5017 (class 0 OID 0)
-- Dependencies: 220
-- Name: Traffic inspector_traffic_inspector_personal_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
--

SELECT pg_catalog.setval('"Police-schema"."Traffic inspector_traffic_inspector_personal_code_seq"', 9, true);

--
-- TOC entry 5018 (class 0 OID 0)
-- Dependencies: 229
-- Name: Traffic laws violation_accident_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
--

SELECT pg_catalog.setval('"Police-schema"."Traffic laws violation_accident_code_seq"', 1, false);

--

```

```

-- TOC entry 5019 (class 0 OID 0)
-- Dependencies: 230
-- Name: Traffic laws violation_car_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
--

SELECT pg_catalog.setval('"Police-schema"."Traffic laws violation_car_code_seq"', 1, false);

--

-- TOC entry 5020 (class 0 OID 0)
-- Dependencies: 235
-- Name: Traffic laws violation_registered_violation_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
--

SELECT pg_catalog.setval('"Police-schema"."Traffic laws violation_registered_violation_code_seq"', 3, true);

--

-- TOC entry 5021 (class 0 OID 0)
-- Dependencies: 217
-- Name: Violation manual_violation_code_seq; Type: SEQUENCE SET; Schema: Police-schema; Owner: postgres
--

SELECT pg_catalog.setval('"Police-schema"."Violation manual_violation_code_seq"', 3, true);

--

-- TOC entry 4766 (class 2606 OID 16911)
-- Name: Car owner Car owner_driving_licence_number_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Car owner"
    ADD CONSTRAINT "Car owner_driving_licence_number_key" UNIQUE (driving_licence_number);

--

-- TOC entry 4768 (class 2606 OID 16913)
-- Name: Car owner Car owner_passport_number_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Car owner"
    ADD CONSTRAINT "Car owner_passport_number_key" UNIQUE (passport_number);

--

-- TOC entry 4770 (class 2606 OID 16915)
-- Name: Car owner Car owner_phone_number_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Car owner"

```

```

ADD CONSTRAINT "Car owner_phone_number_key" UNIQUE (phone_number);

--
-- TOC entry 4772 (class 2606 OID 16676)
-- Name: Car owner Car owner_pkey; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Car owner"
    ADD CONSTRAINT "Car owner_pkey" PRIMARY KEY (driving_licence_number);

--
-- TOC entry 4812 (class 2606 OID 17373)
-- Name: Car properties Car properties_pkey; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Car properties"
    ADD CONSTRAINT "Car properties_pkey" PRIMARY KEY (car_brand);

--
-- TOC entry 4808 (class 2606 OID 16824)
-- Name: Car Car_pkey; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Car"
    ADD CONSTRAINT "Car_pkey" PRIMARY KEY (vehicle_code);

--
-- TOC entry 4810 (class 2606 OID 16917)
-- Name: Car Car_vehicle_code_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Car"
    ADD CONSTRAINT "Car_vehicle_code_key" UNIQUE (vehicle_code);

--
-- TOC entry 4778 (class 2606 OID 16976)
-- Name: Police department Police department_department_code_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Police department"
    ADD CONSTRAINT "Police department_department_code_key" UNIQUE (department_code);

--
-- TOC entry 4780 (class 2606 OID 16901)

```

```

-- Name: Police department Police department_department_phone_number_key; Type: CONSTRAINT; Schema: Police-schema; Owner:
postgres
--

ALTER TABLE ONLY "Police-schema"."Police department"
    ADD CONSTRAINT "Police department_department_phone_number_key" UNIQUE (department_phone_number);

--

-- TOC entry 4782 (class 2606 OID 16458)
-- Name: Police department Police department_pkey; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Police department"
    ADD CONSTRAINT "Police department_pkey" PRIMARY KEY (department_code);

--

-- TOC entry 4794 (class 2606 OID 16921)
-- Name: Registred car Registred car_car_code_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Registred car"
    ADD CONSTRAINT "Registred car_car_code_key" UNIQUE (car_code);

--

-- TOC entry 4796 (class 2606 OID 16925)
-- Name: Registred car Registred car_driving_licence_number_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Registred car"
    ADD CONSTRAINT "Registred car_driving_licence_number_key" UNIQUE (driving_licence_number);

--

-- TOC entry 4798 (class 2606 OID 16923)
-- Name: Registred car Registred car_operation_code_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Registred car"
    ADD CONSTRAINT "Registred car_operation_code_key" UNIQUE (operation_code);

--

-- TOC entry 4800 (class 2606 OID 16513)
-- Name: Registred car Registred car_pkey; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Registred car"

```

```

ADD CONSTRAINT "Registred car_pkey" PRIMARY KEY (car_code);

--
-- TOC entry 4802 (class 2606 OID 16927)
-- Name: Registred car Registred car_registration_number_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Registred car"
    ADD CONSTRAINT "Registred car_registration_number_key" UNIQUE (registration_number);

--
--
-- TOC entry 4790 (class 2606 OID 16945)
-- Name: Traffic accident Traffic accident_accident_code_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic accident"
    ADD CONSTRAINT "Traffic accident_accident_code_key" UNIQUE (accident_code);

--
--
-- TOC entry 4792 (class 2606 OID 16497)
-- Name: Traffic accident Traffic accident_pkey; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic accident"
    ADD CONSTRAINT "Traffic accident_pkey" PRIMARY KEY (accident_code);

--
--
-- TOC entry 4784 (class 2606 OID 16953)
-- Name: Traffic inspector Traffic inspector_phone_number_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic inspector"
    ADD CONSTRAINT "Traffic inspector_phone_number_key" UNIQUE (phone_number);

--
--
-- TOC entry 4786 (class 2606 OID 16466)
-- Name: Traffic inspector Traffic inspector_pkey; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic inspector"
    ADD CONSTRAINT "Traffic inspector_pkey" PRIMARY KEY (traffic_inspector_personal_code);

--

```



```

-- TOC entry 4788 (class 2606 OID 16951)
-- Name: Traffic inspector Traffic inspector_traffic_inspector_personal_code_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic inspector"
    ADD CONSTRAINT "Traffic inspector_traffic_inspector_personal_code_key" UNIQUE (traffic_inspector_personal_code);

--

-- TOC entry 4804 (class 2606 OID 16875)
-- Name: Traffic laws violation Traffic laws violation_pkey; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic laws violation"
    ADD CONSTRAINT "Traffic laws violation_pkey" PRIMARY KEY (registred_violation_code);

--

-- TOC entry 4806 (class 2606 OID 16963)
-- Name: Traffic laws violation Traffic laws violation_registed_violation_code_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic laws violation"
    ADD CONSTRAINT "Traffic laws violation_registed_violation_code_key" UNIQUE (registred_violation_code);

--

-- TOC entry 4774 (class 2606 OID 16429)
-- Name: Violation manual Violation manual_pkey; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Violation manual"
    ADD CONSTRAINT "Violation manual_pkey" PRIMARY KEY (violation_code);

--

-- TOC entry 4776 (class 2606 OID 16668)
-- Name: Violation manual Violation manual_violation_code_key; Type: CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Violation manual"
    ADD CONSTRAINT "Violation manual_violation_code_key" UNIQUE (violation_code);

--

-- TOC entry 4822 (class 2606 OID 17388)
-- Name: Car Car_car_brand_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Car"

```

```

ADD CONSTRAINT "Car_car_brand_fkey" FOREIGN KEY (car_brand) REFERENCES "Police-schema"."Car properties"(car_brand);

--
-- TOC entry 4816 (class 2606 OID 16810)
-- Name: Registred car Registred car_department_code_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Registred car"
    ADD CONSTRAINT "Registred car_department_code_fkey" FOREIGN KEY (department_code) REFERENCES "Police-schema"."Police
department"(department_code);

--
-- TOC entry 4817 (class 2606 OID 16765)
-- Name: Registred car Registred car_driving_licence_number_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Registred car"
    ADD CONSTRAINT "Registred car_driving_licence_number_fkey" FOREIGN KEY (driving_licence_number) REFERENCES "Police-schema"."Car
owner"(driving_licence_number);

--
-- TOC entry 4818 (class 2606 OID 17367)
-- Name: Registred car Registred car_vehicle_code_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Registred car"
    ADD CONSTRAINT "Registred car_vehicle_code_fkey" FOREIGN KEY (vehicle_code) REFERENCES "Police-schema"."Car"(vehicle_code);

--
-- TOC entry 4814 (class 2606 OID 16838)
-- Name: Traffic accident Traffic accident_car_code_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic accident"
    ADD CONSTRAINT "Traffic accident_car_code_fkey" FOREIGN KEY (car_code) REFERENCES "Police-schema"."Registred car"(car_code);

--
-- TOC entry 4815 (class 2606 OID 16498)
-- Name: Traffic accident Traffic accident_traffic_inspector_personal_code_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner:
postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic accident"
    ADD CONSTRAINT "Traffic accident_traffic_inspector_personal_code_fkey" FOREIGN KEY (traffic_inspector_personal_code) REFERENCES
"Police-schema"."Traffic inspector"(traffic_inspector_personal_code);

```

```

--
-- TOC entry 4813 (class 2606 OID 16468)
-- Name: Traffic inspector Traffic inspector_police_department_code_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic inspector"
    ADD CONSTRAINT "Traffic inspector_police_department_code_fkey" FOREIGN KEY (police_department_code) REFERENCES "Police-
schema"."Police department"(department_code);

--
-- TOC entry 4819 (class 2606 OID 16617)
-- Name: Traffic laws violation Traffic laws violation_accident_code_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic laws violation"
    ADD CONSTRAINT "Traffic laws violation_accident_code_fkey" FOREIGN KEY (accident_code) REFERENCES "Police-schema"."Traffic
accident"(accident_code);

--
-- TOC entry 4820 (class 2606 OID 16623)
-- Name: Traffic laws violation Traffic laws violation_car_code_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic laws violation"
    ADD CONSTRAINT "Traffic laws violation_car_code_fkey" FOREIGN KEY (car_code) REFERENCES "Police-schema"."Registered car"(car_code);

--
-- TOC entry 4821 (class 2606 OID 16783)
-- Name: Traffic laws violation Traffic laws violation_violation_code_fkey; Type: FK CONSTRAINT; Schema: Police-schema; Owner: postgres
--

ALTER TABLE ONLY "Police-schema"."Traffic laws violation"
    ADD CONSTRAINT "Traffic laws violation_violation_code_fkey" FOREIGN KEY (violation_code) REFERENCES "Police-schema"."Violation
manual"(violation_code);
-- Completed on 2023-10-28 16:24:39
-- PostgreSQL database dump complete

```