Министерство науки и высшего образования Российской Федерации
федеральное государственное автономное образовательное учреждение высшего образования
«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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Группа: К3239

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Санкт-Петербург 2023

Оглавление

Цель работы

Овладеть практическими навыками создания таблиц базы данных PostgreSQL 1X, 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:

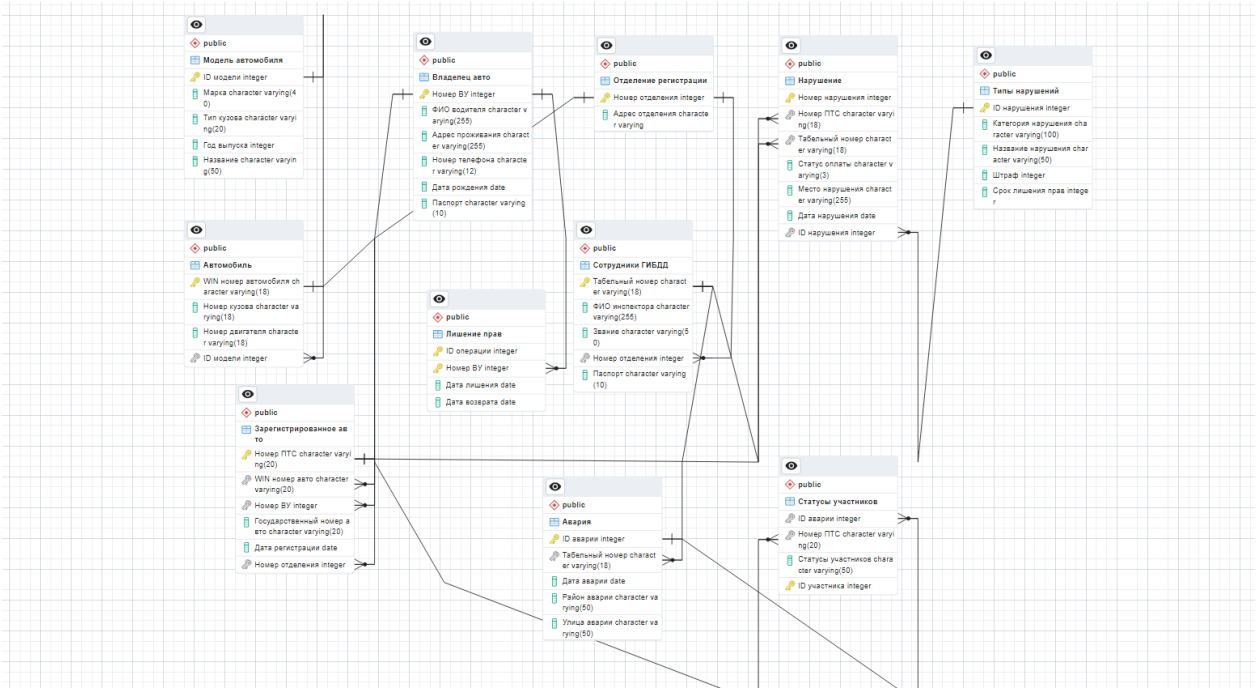
   Создать две резервные копии:

   - 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.
7. Восстановить БД.

Вариант 18. БД «ГИБДД»



Листинг кода для Plain DB Restore

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

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

-- Started on 2023-11-03 18:10:38

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;

SET default_tablespace = '';

SET default_table_access_method = heap;

--
-- TOC entry 220 (class 1259 OID 16433)
-- Name: Car; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Car" (
    "WIN number" character varying(18) NOT NULL,
```

```
    "Engine number" character varying(18) NOT NULL,
    "ID model" integer NOT NULL
);


ALTER TABLE public."Car" OWNER TO postgres;

--
-- TOC entry 217 (class 1259 OID 16411)
-- Name: Car_model; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Car_model" (
    "Model ID" integer NOT NULL,
    "Label" character varying(40) NOT NULL,
    "Body type" character varying(20) NOT NULL,
    "Year of release" integer NOT NULL,
    "Name" character varying(50) NOT NULL
);


ALTER TABLE public."Car_model" OWNER TO postgres;

--
-- TOC entry 216 (class 1259 OID 16404)
-- Name: Car_owner; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Car_owner" (
    "DL number" integer NOT NULL,
    "Driver_name_surname" character varying(255) NOT NULL,
    "Adress" character varying(255) NOT NULL,
    "Telephone number" character varying(15) NOT NULL,
    "Date of birth" date NOT NULL,
    "Passport" character varying(15)
);


ALTER TABLE public."Car_owner" OWNER TO postgres;

--
-- TOC entry 222 (class 1259 OID 16524)
-- Name: Crash; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Crash" (
    "Crash ID" integer NOT NULL,
    "Service_number" character varying(18) NOT NULL,
    "Crash_date" date NOT NULL,
    "Crah_district" character varying(50) NOT NULL,
    "Crash_street" character varying(50) NOT NULL
);


ALTER TABLE public."Crash" OWNER TO postgres;

--
-- TOC entry 225 (class 1259 OID 16609)
-- Name: Participants status; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Participants status" (
    "Crash_ID" integer NOT NULL,
```

```
    "PTS number" character varying(20) NOT NULL,
    "Participants status" character varying(50) NOT NULL,
    "Participants_ID" integer NOT NULL
);


ALTER TABLE public."Participants status" OWNER TO postgres;

--
-- TOC entry 219 (class 1259 OID 16421)
-- Name: Police department; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Police department" (
    "Department_ID" integer NOT NULL,
    "Department_adress" character varying NOT NULL
);


ALTER TABLE public."Police department" OWNER TO postgres;

--
-- TOC entry 218 (class 1259 OID 16416)
-- Name: Policemen; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Policemen" (
    "Personal number" character varying(18) NOT NULL,
    "Policeman_name_surname" character varying(255) NOT NULL,
    "Rank" character varying(50) NOT NULL,
    "Department_ID" integer NOT NULL,
    "Passport" character varying(15)
);


ALTER TABLE public."Policemen" OWNER TO postgres;

--
-- TOC entry 224 (class 1259 OID 16565)
-- Name: Registered_car; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Registered car" (
    "PTS number" character varying(20) NOT NULL,
    "WIN number" character varying(20) NOT NULL,
    "DL number" integer NOT NULL,
    "Car number" character varying(20) NOT NULL,
    "Registration_date" date NOT NULL,
    "Department_ID" integer NOT NULL
);


ALTER TABLE public."Registered_car" OWNER TO postgres;

--
-- TOC entry 221 (class 1259 OID 16443)
-- Name: Rights deprivation; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Rights deprivation" (
    "Procedure_ID" integer NOT NULL,
    "DL number" integer NOT NULL,
    "Loss_date" date NOT NULL,
```

```
    "Return_date" date NOT NULL
);


ALTER TABLE public."Rights deprivation" OWNER TO postgres;

--
-- TOC entry 223 (class 1259 OID 16539)
-- Name: Violation; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Violation" (
    "Violation_ID" integer NOT NULL,
    "PTS number" character varying(18) NOT NULL,
    "Personal number" character varying(18) NOT NULL,
    "Payment status" character varying(3) NOT NULL,
    "Violation_place" character varying(255) NOT NULL,
    "Violation_date" date NOT NULL,
    "Violation_id" integer NOT NULL
);


ALTER TABLE public."Violation" OWNER TO postgres;

--
-- TOC entry 215 (class 1259 OID 16399)
-- Name: Violation_types; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Violation_types" (
    "Violation_ID" integer NOT NULL,
    "Violation_type" character varying(100) NOT NULL,
    "Violation_name" character varying(500) NOT NULL,
    "Penalty" integer,
    "DL_loss_time" integer NOT NULL
);


ALTER TABLE public."Violation_types" OWNER TO postgres;

--
-- TOC entry 4861 (class 0 OID 16433)
-- Dependencies: 220
-- Data for Name: Car; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY public."Car" ("WIN number", "Engine number", "ID model") FROM stdin;
1FUJA6CV74DM34063  284476A    3
JH4KA4650LC000937  SC36E-1000324  2
JH4KA2640HC004148  028103373N 1
123QWE456  321567Q    1
\.


--
-- TOC entry 4858 (class 0 OID 16411)
-- Dependencies: 217
-- Data for Name: Car_model; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY public."Car_model" ("Model ID", "Label", "Body type", "Year of release",
"Name") FROM stdin;
1  BMW    Седан  2003   BMW 5 e39
```

```
2	BMW\n	Седан\n	2005	BMW 3 e46
3	Audi\n	Хетчбек\n	2013	Audi A3 (8P)
\.


--
-- TOC entry 4857 (class 0 OID 16404)
-- Dependencies: 216
-- Data for Name: Car_owner; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY public."Car_owner" ("DL number", "Driver_name_surname", "Adress",
"Telephone number", "Date of birth", "Passport") FROM stdin;
1234567	Иванов Иван Иванович	Серебряный бульвар 12	+79650897834	2001-12-
03 4018 134534
1234565	Михайлов Иван Иванович\n	Проспект ветеранов к153	+79656578501
2001-03-21 4618 147216
1234566	Сергеев Иван Иванович	Биржевая Улица 14\n	+79657005804	1996-05-
03 4745 501529
1234569	Залетов Артём Дмитриевич	Улица Ленина 15	+79652329401	1998-02-
02 4680 471692
1234568	Сергеев Сергей Сергеевич	Улица Марата 13\n	+79652692357\n 2000-11-
04 4224 941017
\.


--
-- TOC entry 4863 (class 0 OID 16524)
-- Dependencies: 222
-- Data for Name: Crash; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY public."Crash" ("Crash ID", "Service_number", "Crash_date",
"Crah_district", "Crash_street") FROM stdin;
1	2	2023-11-03 Центральный	Марата 17
\.


--
-- TOC entry 4866 (class 0 OID 16609)
-- Dependencies: 225
-- Data for Name: Participants status; Type: TABLE DATA; Schema: public; Owner:
postgres
--

COPY public."Participants status" ("Crash_ID", "PTS number", "Participants
status", "Participants_ID") FROM stdin;
1	02КР362311 1	1
\.


--
-- TOC entry 4860 (class 0 OID 16421)
-- Dependencies: 219
-- Data for Name: Police department; Type: TABLE DATA; Schema: public; Owner:
postgres
--

COPY public."Police department" ("Department_ID", "Department_adress") FROM
stdin;
1	Кронверкский проспект 49
2	Улица Ломоносова 9М
\.
```

```
--
-- TOC entry 4859 (class 0 OID 16416)
-- Dependencies: 218
-- Data for Name: Policemen; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY public."Policemen" ("Personal number", "Policeman_name_surname", "Rank",
"Department_ID", "Passport") FROM stdin;
1  Деревсков Денис Климентьевич   Сержант    1  4063 170339
2  Левтев Ефим Степанович Рядовой\n  1  4978 568220
3  Веточкин Яков Никифорович  Майор\n    2  4777 684175
\.


--
-- TOC entry 4865 (class 0 OID 16565)
-- Dependencies: 224
-- Data for Name: Registered_car; Type: TABLE DATA; Schema: public; Owner:
postgres
--

COPY public."Registered_car" ("PTS number", "WIN number", "DL number", "Car
number", "Registration_date", "Department_ID") FROM stdin;
02КР362311 123QWE456  1234567    Е100ВК37   2023-03-11 1
\.


--
-- TOC entry 4862 (class 0 OID 16443)
-- Dependencies: 221
-- Data for Name: Rights deprivation; Type: TABLE DATA; Schema: public; Owner:
postgres
--

COPY public."Rights deprivation" ("Procedure_ID", "DL number", "Loss_date",
"Return_date") FROM stdin;
1  1234567    2023-10-23 2023-10-24
\.


--
-- TOC entry 4864 (class 0 OID 16539)
-- Dependencies: 223
-- Data for Name: Violation; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY public."Violation" ("Violation_ID", "PTS number", "Personal number",
"Payment status", "Violation_place", "Violation_date", "Violation_id") FROM
stdin;
1  02КР362311 1  0  Загородный проспект 15 2023-11-02 1
\.


--
-- TOC entry 4856 (class 0 OID 16399)
-- Dependencies: 215
-- Data for Name: Violation_types; Type: TABLE DATA; Schema: public; Owner:
postgres
--

COPY public."Violation_types" ("Violation_ID", "Violation_type",
```

```
"Violation_name", "Penalty", "DL_loss_time") FROM stdin;
4  Неисправности автомобиля   Наезд на сплошную  5000   12
3  Отсутствие документов и регистрации автомобиля Управление транспортным
средством, на котором установлены стекла (в том числе покрытые прозрачными
цветными пленками), светопропускание которых не соответствует требованиям
технического регламента о безопасности колесных транспортных средств  500    0
2  Отсутствие документов и регистрации автомобиля Передача управления
транспортным средством лицу, не имеющему при себе документов на право управления
им    3000   0
1  Отсутствие документов и регистрации автомобиля Управление транспортным
средством, не зарегистрированным в установленном порядке   800    0
\.


--
-- TOC entry 4680 (class 2606 OID 16415)
-- Name: Car_model Car_model_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Car_model"
    ADD CONSTRAINT "Car_model_pkey" PRIMARY KEY ("Model ID");


--
-- TOC entry 4676 (class 2606 OID 16586)
-- Name: Car_owner Car_owner_DL number__key; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Car_owner"
    ADD CONSTRAINT "Car_owner_DL number__key" UNIQUE ("DL number") INCLUDE ("DL
number");


--
-- TOC entry 4678 (class 2606 OID 16410)
-- Name: Car_owner Car_owner_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Car_owner"
    ADD CONSTRAINT "Car owner pkey" PRIMARY KEY ("DL number");


--
-- TOC entry 4688 (class 2606 OID 16437)
-- Name: Car Car_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Car"
    ADD CONSTRAINT "Car_pkey" PRIMARY KEY ("WIN number");


--
-- TOC entry 4694 (class 2606 OID 16601)
-- Name: Crash Crash_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Crash"
    ADD CONSTRAINT "Crash_pkey" PRIMARY KEY ("Crash ID") INCLUDE ("Crash ID");
```

```
--
-- TOC entry 4692 (class 2606 OID 16447)
-- Name: Rights deprivation DL_loss_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Rights deprivation"
    ADD CONSTRAINT "DL_loss_pkey" PRIMARY KEY ("Procedure_ID", "DL number");


--
-- TOC entry 4686 (class 2606 OID 16427)
-- Name: Police department Department_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Police department"
    ADD CONSTRAINT "Department_pkey" PRIMARY KEY ("Department_ID");


--
-- TOC entry 4696 (class 2606 OID 16608)
-- Name: Violation PTS number; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "PTS number" PRIMARY KEY ("Violation_ID") INCLUDE
("Violation_ID");


--
-- TOC entry 4700 (class 2606 OID 16632)
-- Name: Participants status Participant ID; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Participants status"
    ADD CONSTRAINT "Participant ID" PRIMARY KEY ("Participants_ID") INCLUDE
("Participants_ID");


--
-- TOC entry 4682 (class 2606 OID 16592)
-- Name: Policemen Personal number; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Policemen"
    ADD CONSTRAINT "Personal number" UNIQUE ("Personal number") INCLUDE
("Personal number");


--
-- TOC entry 4684 (class 2606 OID 16507)
-- Name: Policemen Policemans_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Policemen"
    ADD CONSTRAINT "Policemans_pkey" PRIMARY KEY ("Personal number");


--
```

```
-- TOC entry 4698 (class 2606 OID 16569)
-- Name: Registered_car Registered_car_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "Registered_car_pkey" PRIMARY KEY ("PTS number");


--
-- TOC entry 4674 (class 2606 OID 16403)
-- Name: Violation_types Violation_types_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Violation_types"
    ADD CONSTRAINT "Violation_types_pkey" PRIMARY KEY ("Violation_ID");


--
-- TOC entry 4690 (class 2606 OID 16594)
-- Name: Car WIN; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Car"
    ADD CONSTRAINT "WIN" UNIQUE ("WIN number") INCLUDE ("WIN number");


--
-- TOC entry 4711 (class 2606 OID 16619)
-- Name: Participants status Crash ID; Type: FK CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Participants status"
    ADD CONSTRAINT "Crash ID" FOREIGN KEY ("Crash_ID") REFERENCES
public."Crash"("Crash ID");


--
-- TOC entry 4703 (class 2606 OID 16448)
-- Name: Rights deprivation DL number; Type: FK CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Rights deprivation"
    ADD CONSTRAINT "DL number" FOREIGN KEY ("DL number") REFERENCES
public."Car_owner"("DL number");


--
-- TOC entry 4708 (class 2606 OID 16575)
-- Name: Registered_car DL number; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "DL number" FOREIGN KEY ("DL number") REFERENCES
public."Car_owner"("DL number");


--
-- TOC entry 4701 (class 2606 OID 16428)
```

```
-- Name: Policemen Department ID; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Policemen"
    ADD CONSTRAINT "Department ID" FOREIGN KEY ("Department_ID") REFERENCES
public."Police department"("Department_ID") NOT VALID;


--
-- TOC entry 4709 (class 2606 OID 16580)
-- Name: Registered_car Department ID; Type: FK CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "Department ID" FOREIGN KEY ("Department_ID") REFERENCES
public."Police department"("Department_ID");


--
-- TOC entry 4702 (class 2606 OID 16438)
-- Name: Car Model_id; Type: FK CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Car"
    ADD CONSTRAINT "Model_id" FOREIGN KEY ("ID model") REFERENCES
public."Car_model"("Model ID");


--
-- TOC entry 4712 (class 2606 OID 16614)
-- Name: Participants status PTS; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Participants status"
    ADD CONSTRAINT "PTS" FOREIGN KEY ("PTS number") REFERENCES
public."Registered_car"("PTS number");


--
-- TOC entry 4705 (class 2606 OID 16549)
-- Name: Violation Personal number; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "Personal number" FOREIGN KEY ("Personal number") REFERENCES
public."Policemen"("Personal number");


--
-- TOC entry 4706 (class 2606 OID 16554)
-- Name: Violation Violation ID; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "Violation ID" FOREIGN KEY ("Violation_id") REFERENCES
public."Violation_types"("Violation_ID");
```

```
--
-- TOC entry 4707 (class 2606 OID 16602)
-- Name: Violation Violation PTS; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "Violation PTS" FOREIGN KEY ("PTS number") REFERENCES
public."Registered_car"("PTS number") NOT VALID;


--
-- TOC entry 4710 (class 2606 OID 16570)
-- Name: Registered_car WIN number; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "WIN number" FOREIGN KEY ("WIN number") REFERENCES
public."Car"("WIN number");


--
-- TOC entry 4704 (class 2606 OID 16534)
-- Name: Crash Табельный номер; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Crash"
    ADD CONSTRAINT "Табельный номер" FOREIGN KEY ("Service_number") REFERENCES
public."Policemen"("Personal number");


-- Completed on 2023-11-03 18:10:38

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

Листинг кода для Custom DB restore

```
toc.dat 0000600 0004000 0002000 00000042504 14521206600 0014440
0ustar 00postgres postgres 0000000 0000000 PGDMP□□ □□□ 7
□ □
{ □ GIBDD □ 16.0□ 16.04□□ □ 0□ 0□ ENCODING □ ENCODING □ - SET client_encoding =
'UTF8';
□□ □□ □□ □□ □□ □□ □ false□□ □□ □ 0 □ 0
STDSTRINGS
STDSTRINGS □ ( SET standard_conforming_strings = 'on';
□□ □□ □□ □□ □□ □□ □ false□□ □□ □ 0 □ 0
SEARCHPATH
SEARCHPATH □ 8 SELECT pg_catalog.set_config('search_path', '', false);
□□ □□ □□ □□ □□ □□ □ false□□ □□ □ 1262 □ 16398 □ GIBDD □ DATABASE □ □CREATE
DATABASE "GIBDD" WITH TEMPLATE = template0 ENCODING = 'UTF8' LOCALE_PROVIDER =
libc LOCALE = 'English_United States.1252';
□ DROP DATABASE "GIBDD";
□□ □□ □□ □□ □ postgres □ false□□ □□ 1259□ 16433□ Car □ TABLE □ □CREATE TABLE
public."Car" (
    "WIN number" character varying(18) NOT NULL,
    "Engine number" character varying(18) NOT NULL,
    "ID model" integer NOT NULL
);
□ DROP TABLE public."Car";
```

```
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16411
Car_model □ TABLE □ □CREATE TABLE public."Car_model" (
    "Model ID" integer NOT NULL,
    "Label" character varying(40) NOT NULL,
    "Body type" character varying(20) NOT NULL,
    "Year of release" integer NOT NULL,
    "Name" character varying(50) NOT NULL
);
 DROP TABLE public."Car_model";
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16404
Car_owner □ TABLE □ /□ CREATE TABLE public."Car_owner" (
    "DL number" integer NOT NULL,
    "Driver_name_surname" character varying(255) NOT NULL,
    "Adress" character varying(255) NOT NULL,
    "Telephone number" character varying(15) NOT NULL,
    "Date of birth" date NOT NULL,
    "Passport" character varying(15)
);
 DROP TABLE public."Car_owner";
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16524□ Crash □ TABLE □ □CREATE
TABLE public."Crash" (
    "Crash ID" integer NOT NULL,
    "Service_number" character varying(18) NOT NULL,
    "Crash_date" date NOT NULL,
    "Crah_district" character varying(50) NOT NULL,
    "Crash_street" character varying(50) NOT NULL
);
□ DROP TABLE public."Crash";
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16609□ Participants
status □ TABLE □ □CREATE TABLE public."Participants status" (
    "Crash_ID" integer NOT NULL,
    "PTS number" character varying(20) NOT NULL,
    "Participants status" character varying(50) NOT NULL,
    "Participants_ID" integer NOT NULL
);
) DROP TABLE public."Participants status";
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16421□ Police
department □ TABLE □ □CREATE TABLE public."Police department" (
    "Department_ID" integer NOT NULL,
    "Department_adress" character varying NOT NULL
);
' DROP TABLE public."Police department";
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16416
Policemen □ TABLE □ □□ CREATE TABLE public."Policemen" (
    "Personal number" character varying(18) NOT NULL,
    "Policeman_name_surname" character varying(255) NOT NULL,
    "Rank" character varying(50) NOT NULL,
    "Department_ID" integer NOT NULL,
    "Passport" character varying(15)
);
 DROP TABLE public."Policemen";
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16565
```

```
 Registered_car □ TABLE □ +□ CREATE TABLE public."Registered_car" (
    "PTS number" character varying(20) NOT NULL,
    "WIN number" character varying(20) NOT NULL,
    "DL number" integer NOT NULL,
    "Car number" character varying(20) NOT NULL,
    "Registration_date" date NOT NULL,
    "Department_ID" integer NOT NULL
);
$ DROP TABLE public."Registered_car";
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16443□ Rights
deprivation □ TABLE □ □CREATE TABLE public."Rights deprivation" (
    "Procedure_ID" integer NOT NULL,
    "DL number" integer NOT NULL,
    "Loss_date" date NOT NULL,
    "Return_date" date NOT NULL
);
( DROP TABLE public."Rights deprivation";
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16539
Violation □ TABLE □ d□ CREATE TABLE public."Violation" (
    "Violation_ID" integer NOT NULL,
    "PTS number" character varying(18) NOT NULL,
    "Personal number" character varying(18) NOT NULL,
    "Payment status" character varying(3) NOT NULL,
    "Violation_place" character varying(255) NOT NULL,
    "Violation_date" date NOT NULL,
    "Violation_id" integer NOT NULL
);
 DROP TABLE public."Violation";
□□ □ public □ heap □ postgres □ false□□ □ 1259□ 16399□ Violation_types □ TABLE
 □ □CREATE TABLE public."Violation_types" (
    "Violation_ID" integer NOT NULL,
    "Violation_type" character varying(100) NOT NULL,
    "Violation_name" character varying(500) NOT NULL,
    "Penalty" integer,
    "DL_loss_time" integer NOT NULL
);
% DROP TABLE public."Violation_types";
□□ □ public □ heap □ postgres □ false□□ □ □ □ 0□ 16433□ Car
TABLE DATA □ □□ □□ J COPY public."Car" ("WIN number", "Engine number", "ID
model") FROM stdin;
□ public□□ □□ □ postgres □ false □ 220□□ □ 4861.dat □ □ □ 0□ 16411  Car_model
TABLE DATA □ □□ □□ b COPY public."Car_model" ("Model ID", "Label", "Body type",
"Year of release", "Name") FROM stdin;
□ public□□ □□ □ postgres □ false □ 217□□ □ 4858.dat □ □ □ 0□ 16404  Car_owner
TABLE DATA □ □□ □□ □COPY public."Car_owner" ("DL number",
"Driver_name_surname", "Adress", "Telephone number", "Date of birth",
"Passport") FROM stdin;
□ public□□ □□ □ postgres □ false □ 216□□ □ 4857.dat □ □ □ 0□ 16524□ Crash
TABLE DATA □ □□ □□ n COPY public."Crash" ("Crash ID", "Service_number",
"Crash_date", "Crah_district", "Crash_street") FROM stdin;
□ public□□ □□ □ postgres □ false □ 222□□ □ 4863.dat □□ □ □ 0 □ 16609 □ Participa
nts status
TABLE DATA □ □□ □□ s COPY public."Participants status" ("Crash_ID", "PTS
number", "Participants status", "Participants_ID") FROM stdin;
□ public□□ □□ □ postgres □ false □ 225□□ □ 4866.dat □ □ □ 0□ 16421□ Police
department
TABLE DATA □ □□ □□ S COPY public."Police department" ("Department_ID",
"Department_adress") FROM stdin;
□ public□□ □□ □ postgres □ false □ 219□□ □ 4860.dat □ □ □ 0□ 16416  Policemen
TABLE DATA □ □□ □□ w COPY public."Policemen" ("Personal number",
"Policeman_name_surname", "Rank", "Department_ID", "Passport") FROM stdin;
□ public□□ □□ □ postgres □ false □ 218□□ □ 4859.dat □□ □ □ 0 □ 16565
```

```
 Registered_car
TABLE DATA □ □□ □□ ◆COPY public."Registered_car" ("PTS number", "WIN number",
"DL number", "Car number", "Registration_date", "Department_ID") FROM stdin;
□ public□□ □□ □ postgres □ false □ 224□□ □ 4865.dat ◆□ □ □ 0□ 16443□ Rights
deprivation
TABLE DATA □ □□ □□ g COPY public."Rights deprivation" ("Procedure_ID", "DL
number", "Loss_date", "Return_date") FROM stdin;
□ public□□ □□ □ postgres □ false □ 221□□ □ 4862.dat □ □ □ 0 □ 16539   Violation
TABLE DATA □ □□ □□ ◆COPY public."Violation" ("Violation_ID", "PTS number",
"Personal number", "Payment status", "Violation_place", "Violation_date",
"Violation_id") FROM stdin;
□ public□□ □□ □ postgres □ false □ 223□□ □ 4864.dat ◆□ □ □ 0□ 16399□ Violation_
types
TABLE DATA □ □□ □□ z COPY public."Violation_types" ("Violation_ID",
"Violation_type", "Violation_name", "Penalty", "DL_loss_time") FROM stdin;
□ public□□ □□ □ postgres □ false □ 215□□ □ 4856.dat H□ □ 2606 □ 16415 □ Car_mode
l Car_model_pkey
CONSTRAINT □ b ALTER TABLE ONLY public."Car_model"
    ADD CONSTRAINT "Car_model_pkey" PRIMARY KEY ("Model ID");
F ALTER TABLE ONLY public."Car_model" DROP CONSTRAINT "Car_model_pkey";
□□ □ public □□ □ postgres □ false □ 217□□ D□ □ 2606 □ 16586 " Car owner
Car_owner_DL number__key
CONSTRAINT □ ~ ALTER TABLE ONLY public."Car_owner"
    ADD CONSTRAINT "Car_owner_DL number__key" UNIQUE ("DL number") INCLUDE ("DL
number");
P ALTER TABLE ONLY public."Car_owner" DROP CONSTRAINT "Car_owner_DL
number__key";
□□ □ public □□ □ postgres □ false □ 216□□ F□ □ 2606 □ 16410 □ Car_owner
Car_owner_pkey
CONSTRAINT □ c ALTER TABLE ONLY public."Car_owner"
    ADD CONSTRAINT "Car_owner_pkey" PRIMARY KEY ("DL number");
F ALTER TABLE ONLY public."Car_owner" DROP CONSTRAINT "Car_owner_pkey";
□□ □ public □□ □ postgres □ false □ 216□□ P□ □ 2606 □ 16437
```

```
 Car Car_pkey
CONSTRAINT □ X ALTER TABLE ONLY public."Car"
    ADD CONSTRAINT "Car_pkey" PRIMARY KEY ("WIN number");
: ALTER TABLE ONLY public."Car" DROP CONSTRAINT "Car_pkey";
□□ □ public □□ □ postgres □ false □ 220□□ V□ □ 2606 □ 16601 □ Crash Crash_pkey
CONSTRAINT □ o ALTER TABLE ONLY public."Crash"
    ADD CONSTRAINT "Crash_pkey" PRIMARY KEY ("Crash ID") INCLUDE ("Crash ID");
>ALTER TABLE ONLY public."Crash" DROP CONSTRAINT "Crash_pkey";
□□ □ public □□ □ postgres □ false □ 222□□ T□ □ 2606 □ 16447  Rights deprivation
DL_loss_pkey
CONSTRAINT □ z ALTER TABLE ONLY public."Rights deprivation"
    ADD CONSTRAINT "DL_loss_pkey" PRIMARY KEY ("Procedure_ID", "DL number");
M ALTER TABLE ONLY public."Rights deprivation" DROP CONSTRAINT "DL_loss_pkey";
□□ □ public □□ □ postgres □ false □ 221 □ 221□□ N□ □ 2606 □ 16427 ! Police
department Department_pkey
CONSTRAINT □ p ALTER TABLE ONLY public."Police department"
    ADD CONSTRAINT "Department_pkey" PRIMARY KEY ("Department_ID");
O ALTER TABLE ONLY public."Police department" DROP CONSTRAINT "Department_pkey";
□□ □ public □□ □ postgres □ false □ 219□□ X□ □ 2606 □ 16608 □ Violation PTS
number
CONSTRAINT □ { ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "PTS number" PRIMARY KEY ("Violation_ID") INCLUDE
("Violation_ID");
B ALTER TABLE ONLY public."Violation" DROP CONSTRAINT "PTS number";
□□ □ public □□ □ postgres □ false □ 223□□ \□ □ 2606□ 16632" Participants status
Participant ID
CONSTRAINT □ ◆ALTER TABLE ONLY public."Participants status"
    ADD CONSTRAINT "Participant ID" PRIMARY KEY ("Participants_ID") INCLUDE
("Participants_ID");
P ALTER TABLE ONLY public."Participants status" DROP CONSTRAINT "Participant
ID";
□□ □ public □□ □ postgres □ false □ 225□□ J□ □ 2606 □ 16592 □ Policemen Personal
number
CONSTRAINT □ ◆ALTER TABLE ONLY public."Policemen"
    ADD CONSTRAINT "Personal number" UNIQUE ("Personal number") INCLUDE
("Personal number");
G ALTER TABLE ONLY public."Policemen" DROP CONSTRAINT "Personal number";
□□ □ public □□ □ postgres □ false □ 218□□ L□ □ 2606 □ 16507 □ Policemen
Policemans_pkey
CONSTRAINT □ j ALTER TABLE ONLY public."Policemen"
    ADD CONSTRAINT "Policemans_pkey" PRIMARY KEY ("Personal number");
G ALTER TABLE ONLY public."Policemen" DROP CONSTRAINT "Policemans_pkey";
□□ □ public □□ □ postgres □ false □ 218□□ Z□ □ 2606 □ 16569 " Registered_car
Registered_car_pkey
CONSTRAINT □ n ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "Registered_car_pkey" PRIMARY KEY ("PTS number");
P ALTER TABLE ONLY public."Registered_car" DROP CONSTRAINT
"Registered_car_pkey";
□□ □ public □□ □ postgres □ false □ 224□□ B□ □ 2606 □ 16403 $ Violation_types
Violation_types_pkey
CONSTRAINT □ r ALTER TABLE ONLY public."Violation_types"
    ADD CONSTRAINT "Violation_types_pkey" PRIMARY KEY ("Violation_ID");
R ALTER TABLE ONLY public."Violation_types" DROP CONSTRAINT
"Violation_types_pkey";
□□ □ public □□ □ postgres □ false □ 215□□ R□ □ 2606 □ 16594 □ Car WIN
CONSTRAINT □ e ALTER TABLE ONLY public."Car"
    ADD CONSTRAINT "WIN" UNIQUE ("WIN number") INCLUDE ("WIN number");
5ALTER TABLE ONLY public."Car" DROP CONSTRAINT "WIN";
□□ □ public □□ □ postgres □ false □ 220□□ g□ □ 2606 □ 16619 □ Participants
status Crash ID
FK CONSTRAINT □ ◆ALTER TABLE ONLY public."Participants status"
    ADD CONSTRAINT "Crash ID" FOREIGN KEY ("Crash_ID") REFERENCES
public."Crash"("Crash ID");
```

```
J ALTER TABLE ONLY public."Participants status" DROP CONSTRAINT "Crash ID";
□□ □ public□□ □□ □ postgres □ false □ 222 □ 225 □ 4694□□ _□ □ 2606 □ 16448 □ Rig
hts deprivation DL number
FK CONSTRAINT □ □ALTER TABLE ONLY public."Rights deprivation"
    ADD CONSTRAINT "DL number" FOREIGN KEY ("DL number") REFERENCES
public."Car_owner"("DL number");
J ALTER TABLE ONLY public."Rights deprivation" DROP CONSTRAINT "DL number";
□□ □ public□□ □□ □ postgres □ false □ 4678 □ 216 □ 221□□ d□ □ 2606 □ 16575 □ Reg
istered_car DL number
FK CONSTRAINT □ □ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "DL number" FOREIGN KEY ("DL number") REFERENCES
public."Car_owner"("DL number");
F ALTER TABLE ONLY public."Registered_car" DROP CONSTRAINT "DL number";
□□ □ public□□ □□ □ postgres □ false □ 216 □ 4678 □ 224□□ ]□ □ 2606□ 16428□ Polic
emen Department ID
FK CONSTRAINT □ □ALTER TABLE ONLY public."Policemen"
    ADD CONSTRAINT "Department ID" FOREIGN KEY ("Department_ID") REFERENCES
public."Police department"("Department_ID") NOT VALID;
E ALTER TABLE ONLY public."Policemen" DROP CONSTRAINT "Department ID";
□□ □ public□□ □□ □ postgres □ false □ 219 □ 4686 □ 218□□ e□ □ 2606 □ 16580 □ Reg
istered_car Department ID
FK CONSTRAINT □ □ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "Department ID" FOREIGN KEY ("Department_ID") REFERENCES
public."Police department"("Department_ID");
J ALTER TABLE ONLY public."Registered_car" DROP CONSTRAINT "Department ID";
□□ □ public□□ □□ □ postgres □ false □ 224 □ 4686 □ 219□□ ^□ □ 2606□ 16438
```

```
 Car Model_id
FK CONSTRAINT □ ◆ALTER TABLE ONLY public."Car"
    ADD CONSTRAINT "Model_id" FOREIGN KEY ("ID model") REFERENCES
public."Car_model"("Model ID");
: ALTER TABLE ONLY public."Car" DROP CONSTRAINT "Model_id";
□□ □ public□□ □□ □ postgres □ false □ 220 □ 217 □ 4680□□ h□ □ 2606 □ 16614 □ Par
ticipants status PTS
FK CONSTRAINT □ ◆ALTER TABLE ONLY public."Participants status"
    ADD CONSTRAINT "PTS" FOREIGN KEY ("PTS number") REFERENCES
public."Registered_car"("PTS number");
E ALTER TABLE ONLY public."Participants status" DROP CONSTRAINT "PTS";
□□ □ public□□ □□ □ postgres □ false □ 225 □ 224 □ 4698□□ a□ □ 2606 □ 16549 □ Vio
lation Personal number
FK CONSTRAINT □ ◆ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "Personal number" FOREIGN KEY ("Personal number") REFERENCES
public."Policemen"("Personal number");
G ALTER TABLE ONLY public."Violation" DROP CONSTRAINT "Personal number";
□□ □ public□□ □□ □ postgres □ false □ 4684 □ 223 □ 218□□ b□ □ 2606 □ 16554 □ Vio
lation Violation ID
FK CONSTRAINT □ ◆ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "Violation ID" FOREIGN KEY ("Violation id") REFERENCES
public."Violation_types"("Violation_ID");
D ALTER TABLE ONLY public."Violation" DROP CONSTRAINT "Violation ID";
□□ □ public□□ □□ □ postgres □ false □ 215 □ 223 □ 4674□□ c□ □ 2606 □ 16602 □ Vio
lation Violation PTS
FK CONSTRAINT □ ◆ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "Violation PTS" FOREIGN KEY ("PTS number") REFERENCES
public."Registered_car"("PTS number") NOT VALID;
E ALTER TABLE ONLY public."Violation" DROP CONSTRAINT "Violation PTS";
□□ □ public□□ □□ □ postgres □ false □ 4698 □ 223 □ 224□□ f□ □ 2606 □ 16570 □ Reg
istered_car WIN number
FK CONSTRAINT □ ◆ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "WIN number" FOREIGN KEY ("WIN number") REFERENCES
public."Car"("WIN number");
G ALTER TABLE ONLY public."Registered_car" DROP CONSTRAINT "WIN number";
□□ □ public□□ □□ □ postgres □ false □ 4688 □ 224 □ 220□□ `□ □ 2606□ 16534# Crash
Табельный номер
FK CONSTRAINT □ ◆ALTER TABLE ONLY public."Crash"
    ADD CONSTRAINT "Табельный номер" FOREIGN KEY ("Service_number") REFERENCES
public."Policemen"("Personal number");
Q ALTER TABLE ONLY public."Crash" DROP CONSTRAINT "Табельный номер";
□□ □ public□□ □□ □ postgres □ false □ 4684 □ 222 □ 218□□ 4861.dat 0000600
0004000 0002000 00000000166 14521206600 0014253
0ustar 00postgres postgres 0000000 0000000 1FUJA6CV74DM34063  284476A    3
JH4KA4650LC000937  SC36E-1000324  2
JH4KA2640HC004148  028103373N 1
123QWE456  321567Q    1
\.


4858.dat 0000600 0004000 0002000 00000000165 14521206600 0014260
0ustar 00postgres postgres 0000000 0000000 1    BMW    Седан  2003   BMW 5 e39
2  BMW\n  Седан\n    2005   BMW 3 e46
3  Audi\n Хетчбек\n  2013   Audi A3 (8P)
\.


4857.dat 0000600 0004000 0002000 00000001150 14521206600 0014252
0ustar 00postgres postgres 0000000 0000000 1234567 Иванов Иван Иванович
Серебряный бульвар 12  +79650897834   2001-12-03 4018 134534
1234565    Михайлов Иван Иванович\n   Проспект ветеранов к153    +79656578501
2001-03-21 4618 147216
```

```
1234566    Сергеев Иван Иванович  Биржевая Улица 14\n    +79657005804   1996-05-
03 4745 501529
1234569    Залетов Артём Дмитриевич   Улица Ленина 15    +79652329401   1998-02-
02 4680 471692
1234568    Сергеев Сергей Сергеевич   Улица Марата 13\n  +79652692357\n 2000-11-
04 4224 941017
\.


4863.dat 0000600 0004000 0002000 00000000073 14521206600 0014252
0ustar 00postgres postgres 0000000 0000000 1  2  2023-11-03 Центральный
Марата 17
\.


4866.dat 0000600 0004000 0002000 00000000030 14521206600 0014246
0ustar 00postgres postgres 0000000 0000000 1 02КР362311 1  1
\.


4860.dat 0000600 0004000 0002000 00000000132 14521206600 0014243
0ustar 00postgres postgres 0000000 0000000 1  Кронверкский проспект 49
2  Улица Ломоносова 9М
\.


4859.dat 0000600 0004000 0002000 00000000365 14521206600 0014263
0ustar 00postgres postgres 0000000 0000000 1    Деревсков Денис Климентьевич
Сержант    1  4063 170339
2  Левтев Ефим Степанович Рядовой\n  1  4978 568220
3  Веточкин Яков Никифорович  Майор\n    2  4777 684175
\.


4865.dat 0000600 0004000 0002000 00000000075 14521206600 0014256
0ustar 00postgres postgres 0000000 0000000 02КР362311  123QWE456  1234567
E100BK37   2023-03-11 1
\.


4862.dat 0000600 0004000 0002000 00000000045 14521206600 0014250
0ustar 00postgres postgres 0000000 0000000 1   1234567    2023-10-23 2023-10-24
\.


4864.dat 0000600 0004000 0002000 00000000116 14521206600 0014251
0ustar 00postgres postgres 0000000 0000000 1   02КР362311 1  0  Загородный
проспект 15 2023-11-02 1
\.


4856.dat 0000600 0004000 0002000 00000002244 14521206600 0014256
0ustar 00postgres postgres 0000000 0000000 4    Неисправности автомобиля   Наезд
на сплошную  5000   12
3  Отсутствие документов и регистрации автомобиля Управление транспортным
средством, на котором установлены стекла (в том числе покрытые прозрачными
цветными пленками), светопропускание которых не соответствует требованиям
технического регламента о безопасности колесных транспортных средств  500    0
2  Отсутствие документов и регистрации автомобиля Передача управления
транспортным средством лицу, не имеющему при себе документов на право управления
им    3000   0
1  Отсутствие документов и регистрации автомобиля Управление транспортным
средством, не зарегистрированным в установленном порядке   800    0
```

```
\.


restore.sql 0000600 0004000 0002000 00000035236 14521206600 0015371
0ustar 00postgres postgres 0000000 0000000 --
-- NOTE:
--
-- File paths need to be edited. Search for $$PATH$$ and
-- replace it with the path to the directory containing
-- the extracted data files.
--
--
-- PostgreSQL database dump
--

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

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;

DROP DATABASE "GIBDD";
--
-- Name: GIBDD; Type: DATABASE; Schema: -; Owner: postgres
--

CREATE DATABASE "GIBDD" WITH TEMPLATE = template0 ENCODING = 'UTF8'
LOCALE_PROVIDER = libc LOCALE = 'English_United States.1252';


ALTER DATABASE "GIBDD" OWNER TO postgres;

\connect "GIBDD"

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;

SET default_tablespace = '';

SET default_table_access_method = heap;

--
-- Name: Car; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Car" (
    "WIN number" character varying(18) NOT NULL,
```

```
    "Engine number" character varying(18) NOT NULL,
    "ID model" integer NOT NULL
);


ALTER TABLE public."Car" OWNER TO postgres;

--
-- Name: Car_model; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Car_model" (
    "Model ID" integer NOT NULL,
    "Label" character varying(40) NOT NULL,
    "Body type" character varying(20) NOT NULL,
    "Year of release" integer NOT NULL,
    "Name" character varying(50) NOT NULL
);


ALTER TABLE public."Car_model" OWNER TO postgres;

--
-- Name: Car_owner; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Car_owner" (
    "DL number" integer NOT NULL,
    "Driver_name_surname" character varying(255) NOT NULL,
    "Adress" character varying(255) NOT NULL,
    "Telephone number" character varying(15) NOT NULL,
    "Date of birth" date NOT NULL,
    "Passport" character varying(15)
);


ALTER TABLE public."Car_owner" OWNER TO postgres;

--
-- Name: Crash; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Crash" (
    "Crash ID" integer NOT NULL,
    "Service_number" character varying(18) NOT NULL,
    "Crash_date" date NOT NULL,
    "Crah_district" character varying(50) NOT NULL,
    "Crash_street" character varying(50) NOT NULL
);


ALTER TABLE public."Crash" OWNER TO postgres;

--
-- Name: Participants status; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Participants status" (
    "Crash_ID" integer NOT NULL,
    "PTS number" character varying(20) NOT NULL,
    "Participants status" character varying(50) NOT NULL,
    "Participants_ID" integer NOT NULL
);
```

```
ALTER TABLE public."Participants status" OWNER TO postgres;

--
-- Name: Police department; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Police department" (
    "Department_ID" integer NOT NULL,
    "Department_adress" character varying NOT NULL
);


ALTER TABLE public."Police department" OWNER TO postgres;

--
-- Name: Policemen; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Policemen" (
    "Personal number" character varying(18) NOT NULL,
    "Policeman_name_surname" character varying(255) NOT NULL,
    "Rank" character varying(50) NOT NULL,
    "Department_ID" integer NOT NULL,
    "Passport" character varying(15)
);


ALTER TABLE public."Policemen" OWNER TO postgres;

--
-- Name: Registered_car; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Registered_car" (
    "PTS number" character varying(20) NOT NULL,
    "WIN number" character varying(20) NOT NULL,
    "DL number" integer NOT NULL,
    "Car number" character varying(20) NOT NULL,
    "Registration_date" date NOT NULL,
    "Department_ID" integer NOT NULL
);


ALTER TABLE public."Registered_car" OWNER TO postgres;

--
-- Name: Rights deprivation; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Rights deprivation" (
    "Procedure_ID" integer NOT NULL,
    "DL number" integer NOT NULL,
    "Loss_date" date NOT NULL,
    "Return_date" date NOT NULL
);


ALTER TABLE public."Rights deprivation" OWNER TO postgres;

--
-- Name: Violation; Type: TABLE; Schema: public; Owner: postgres
```

```
--

CREATE TABLE public."Violation" (
    "Violation_ID" integer NOT NULL,
    "PTS number" character varying(18) NOT NULL,
    "Personal number" character varying(18) NOT NULL,
    "Payment status" character varying(3) NOT NULL,
    "Violation_place" character varying(255) NOT NULL,
    "Violation_date" date NOT NULL,
    "Violation_id" integer NOT NULL
);


ALTER TABLE public."Violation" OWNER TO postgres;

--
-- Name: Violation_types; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public."Violation_types" (
    "Violation_ID" integer NOT NULL,
    "Violation_type" character varying(100) NOT NULL,
    "Violation_name" character varying(500) NOT NULL,
    "Penalty" integer,
    "DL_loss_time" integer NOT NULL
);


ALTER TABLE public."Violation_types" OWNER TO postgres;

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

COPY public."Car" ("WIN number", "Engine number", "ID model") FROM stdin;
\.
COPY public."Car" ("WIN number", "Engine number", "ID model") FROM
'$$PATH$$/4861.dat';

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

COPY public."Car_model" ("Model ID", "Label", "Body type", "Year of release",
"Name") FROM stdin;
\.
COPY public."Car_model" ("Model ID", "Label", "Body type", "Year of release",
"Name") FROM '$$PATH$$/4858.dat';

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

COPY public."Car_owner" ("DL number", "Driver_name_surname", "Adress",
"Telephone number", "Date of birth", "Passport") FROM stdin;
\.
COPY public."Car_owner" ("DL number", "Driver_name_surname", "Adress",
"Telephone number", "Date of birth", "Passport") FROM '$$PATH$$/4857.dat';

--
-- Data for Name: Crash; Type: TABLE DATA; Schema: public; Owner: postgres
--
```

```
COPY public."Crash" ("Crash ID", "Service_number", "Crash_date",
"Crah_district", "Crash_street") FROM stdin;
\.
COPY public."Crash" ("Crash ID", "Service_number", "Crash_date",
"Crah_district", "Crash_street") FROM '$$PATH$$/4863.dat';

--
-- Data for Name: Participants status; Type: TABLE DATA; Schema: public; Owner:
postgres
--

COPY public."Participants status" ("Crash_ID", "PTS number", "Participants
status", "Participants_ID") FROM stdin;
\.
COPY public."Participants status" ("Crash_ID", "PTS number", "Participants
status", "Participants_ID") FROM '$$PATH$$/4866.dat';

--
-- Data for Name: Police department; Type: TABLE DATA; Schema: public; Owner:
postgres
--

COPY public."Police department" ("Department_ID", "Department_adress") FROM
stdin;
\.
COPY public."Police department" ("Department_ID", "Department_adress") FROM
'$$PATH$$/4860.dat';

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

COPY public."Policemen" ("Personal number", "Policeman_name_surname", "Rank",
"Department_ID", "Passport") FROM stdin;
\.
COPY public."Policemen" ("Personal number", "Policeman_name_surname", "Rank",
"Department_ID", "Passport") FROM '$$PATH$$/4859.dat';

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

COPY public."Registered_car" ("PTS number", "WIN number", "DL number", "Car
number", "Registration_date", "Department_ID") FROM stdin;
\.
COPY public."Registered_car" ("PTS number", "WIN number", "DL number", "Car
number", "Registration_date", "Department_ID") FROM '$$PATH$$/4865.dat';

--
-- Data for Name: Rights deprivation; Type: TABLE DATA; Schema: public; Owner:
postgres
--

COPY public."Rights deprivation" ("Procedure_ID", "DL number", "Loss_date",
"Return_date") FROM stdin;
\.
COPY public."Rights deprivation" ("Procedure_ID", "DL number", "Loss_date",
"Return_date") FROM '$$PATH$$/4862.dat';

--
-- Data for Name: Violation; Type: TABLE DATA; Schema: public; Owner: postgres
--
```

```
COPY public."Violation" ("Violation_ID", "PTS number", "Personal number",
"Payment status", "Violation_place", "Violation_date", "Violation_id") FROM
stdin;
\.
COPY public."Violation" ("Violation_ID", "PTS number", "Personal number",
"Payment status", "Violation_place", "Violation_date", "Violation_id") FROM
'$$PATH$$/4864.dat';

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

COPY public."Violation_types" ("Violation_ID", "Violation_type",
"Violation_name", "Penalty", "DL_loss_time") FROM stdin;
\.
COPY public."Violation_types" ("Violation_ID", "Violation_type",
"Violation_name", "Penalty", "DL_loss_time") FROM '$$PATH$$/4856.dat';

--
-- Name: Car_model Car_model_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Car_model"
    ADD CONSTRAINT "Car_model_pkey" PRIMARY KEY ("Model ID");


--
-- Name: Car_owner Car_owner_DL number__key; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Car_owner"
    ADD CONSTRAINT "Car_owner_DL number__key" UNIQUE ("DL number") INCLUDE ("DL
number");


--
-- Name: Car_owner Car_owner_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Car_owner"
    ADD CONSTRAINT "Car_owner_pkey" PRIMARY KEY ("DL number");


--
-- Name: Car Car_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Car"
    ADD CONSTRAINT "Car_pkey" PRIMARY KEY ("WIN number");


--
-- Name: Crash Crash_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Crash"
    ADD CONSTRAINT "Crash_pkey" PRIMARY KEY ("Crash ID") INCLUDE ("Crash ID");
```

```
--
-- Name: Rights deprivation DL_loss_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Rights deprivation"
    ADD CONSTRAINT "DL_loss_pkey" PRIMARY KEY ("Procedure_ID", "DL number");


--
-- Name: Police department Department_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Police department"
    ADD CONSTRAINT "Department_pkey" PRIMARY KEY ("Department_ID");


--
-- Name: Violation PTS number; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "PTS number" PRIMARY KEY ("Violation_ID") INCLUDE
("Violation_ID");


--
-- Name: Participants status Participant ID; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Participants status"
    ADD CONSTRAINT "Participant ID" PRIMARY KEY ("Participants_ID") INCLUDE
("Participants_ID");


--
-- Name: Policemen Personal number; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Policemen"
    ADD CONSTRAINT "Personal number" UNIQUE ("Personal number") INCLUDE
("Personal number");


--
-- Name: Policemen Policemans_pkey; Type: CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Policemen"
    ADD CONSTRAINT "Policemans_pkey" PRIMARY KEY ("Personal number");


--
-- Name: Registered_car Registered_car_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Registered_car"
```

```
    ADD CONSTRAINT "Registered_car_pkey" PRIMARY KEY ("PTS number");


--
-- Name: Violation_types Violation_types_pkey; Type: CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Violation_types"
    ADD CONSTRAINT "Violation_types_pkey" PRIMARY KEY ("Violation_ID");


--
-- Name: Car WIN; Type: CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Car"
    ADD CONSTRAINT "WIN" UNIQUE ("WIN number") INCLUDE ("WIN number");


--
-- Name: Participants status Crash ID; Type: FK CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Participants status"
    ADD CONSTRAINT "Crash ID" FOREIGN KEY ("Crash_ID") REFERENCES
public."Crash"("Crash ID");


--
-- Name: Rights deprivation DL number; Type: FK CONSTRAINT; Schema: public;
Owner: postgres
--

ALTER TABLE ONLY public."Rights deprivation"
    ADD CONSTRAINT "DL number" FOREIGN KEY ("DL number") REFERENCES
public."Car_owner"("DL number");


--
-- Name: Registered_car DL number; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "DL number" FOREIGN KEY ("DL number") REFERENCES
public."Car_owner"("DL number");


--
-- Name: Policemen Department ID; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Policemen"
    ADD CONSTRAINT "Department ID" FOREIGN KEY ("Department_ID") REFERENCES
public."Police department"("Department_ID") NOT VALID;


--
-- Name: Registered_car Department ID; Type: FK CONSTRAINT; Schema: public;
Owner: postgres
```

```
--

ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "Department ID" FOREIGN KEY ("Department_ID") REFERENCES
public."Police department"("Department_ID");


--
-- Name: Car Model_id; Type: FK CONSTRAINT; Schema: public; Owner: postgres
--

ALTER TABLE ONLY public."Car"
    ADD CONSTRAINT "Model_id" FOREIGN KEY ("ID model") REFERENCES
public."Car_model"("Model ID");


--
-- Name: Participants status PTS; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Participants status"
    ADD CONSTRAINT "PTS" FOREIGN KEY ("PTS number") REFERENCES
public."Registered_car"("PTS number");


--
-- Name: Violation Personal number; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "Personal number" FOREIGN KEY ("Personal number") REFERENCES
public."Policemen"("Personal number");


--
-- Name: Violation Violation ID; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "Violation ID" FOREIGN KEY ("Violation id") REFERENCES
public."Violation_types"("Violation_ID");


--
-- Name: Violation Violation PTS; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Violation"
    ADD CONSTRAINT "Violation PTS" FOREIGN KEY ("PTS number") REFERENCES
public."Registered_car"("PTS number") NOT VALID;


--
-- Name: Registered_car WIN number; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Registered_car"
    ADD CONSTRAINT "WIN number" FOREIGN KEY ("WIN number") REFERENCES
```

```
public."Car"("WIN number");


--
-- Name: Crash Табельный номер; Type: FK CONSTRAINT; Schema: public; Owner:
postgres
--

ALTER TABLE ONLY public."Crash"
    ADD CONSTRAINT "Табельный номер" FOREIGN KEY ("Service_number") REFERENCES
public."Policemen"("Personal number");


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

Вывод

В ходе лабораторной работы я освоил практические навыки по созданию, заполнению и восстановлению баз данных в PostgreSQL с использованием инструмента управления pgAdmin 4. Была создана структура базы данных, включая таблицы с различными ограничениями для обеспечения целостности данных. Далее, таблицы были заполнены рабочими данными. Для безопасности информации были созданы резервные копии с разными расширениями, что позволило как восстановить базу данных, так и просмотреть листинг данных. Конечным этапом стало успешное восстановление БД, подтверждающее корректность ранее выполненных действий.