

**Министерство науки и высшего образования Российской Федерации**  
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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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## Оглавление

Цель работы .....	3
Практическое задание .....	3
Выполнение .....	3
Вывод.....	29

## **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:

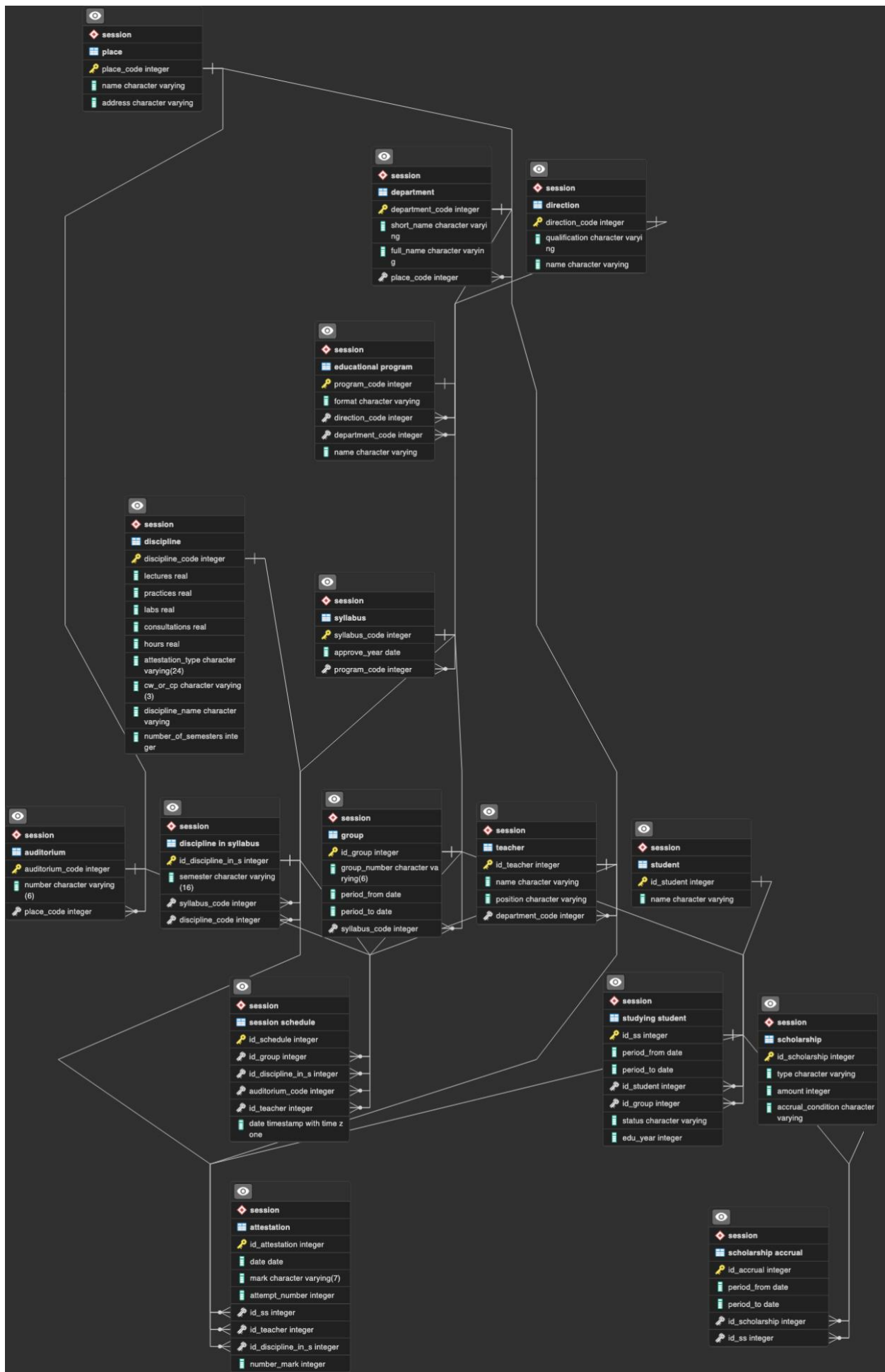
- с расширением CUSTOM для восстановления БД;
- с расширением PLAIN для листинга (в отчете);
- при создании резервных копий БД настроить параметры Dump options для Type of objects и Queries.

7. Восстановить БД.

## **Выполнение**

### **Вариант 2. БД «Сессия»**

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



## Рисунок 1 – Схема логической модели базы данных.

Листинг кода дампа приведен ниже в листинге 1:

### Листинг 1 – Описание атрибутов сущностей

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

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

-- Started on 2023-10-26 16:32:13 MSK

SET statement_timeout = 0;
SET lock_timeout = 0;
SET idle_in_transaction_session_timeout = 0;
SET client_encoding = 'UTF8';
SET standard_conforming_strings = on;
SELECT pg_catalog.set_config('search_path', '', false);
SET check_function_bodies = false;
SET xmloption = content;
SET client_min_messages = warning;
SET row_security = off;

--
-- TOC entry 6 (class 2615 OID 16399)
-- Name: Session; Type: SCHEMA; Schema: -; Owner: postgres
--

CREATE SCHEMA "Session";

ALTER SCHEMA "Session" OWNER TO postgres;

--
-- TOC entry 233 (class 1255 OID 16566)
-- Name: hours_trigger(); Type: FUNCTION; Schema: Session; Owner: postgres
--

CREATE FUNCTION "Session".hours_trigger() RETURNS trigger
    LANGUAGE plpgsql
    AS $$BEGIN
    NEW.total_hours := NEW.lecture_hours + NEW.practice_hours + NEW.lab_hours;
    RETURN NEW;
END;
$$;

ALTER FUNCTION "Session".hours_trigger() OWNER TO postgres;

SET default_tablespace = '';

SET default_table_access_method = heap;

--
-- TOC entry 217 (class 1259 OID 16409)
-- Name: active student; Type: TABLE; Schema: Session; Owner: postgres
--
```

```

CREATE TABLE "Session"."active student" (
    student_id integer NOT NULL,
    datel date NOT NULL,
    date2 date NOT NULL,
    group_id integer NOT NULL,
    record_book_id integer NOT NULL
);

ALTER TABLE "Session"."active student" OWNER TO postgres;

--
-- TOC entry 226 (class 1259 OID 16620)
-- Name: attestation pass; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session"."attestation pass" (
    personal_id integer NOT NULL,
    student_id integer NOT NULL,
    discipline_id integer NOT NULL,
    date date NOT NULL,
    mark integer NOT NULL,
    attempt integer,
    attestation_id integer NOT NULL
);

ALTER TABLE "Session"."attestation pass" OWNER TO postgres;

--
-- TOC entry 230 (class 1259 OID 16712)
-- Name: classroom; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".classroom (
    classroom_id integer NOT NULL,
    department_id integer NOT NULL,
    classroom_type integer NOT NULL,
    capacity integer NOT NULL,
    number character varying(5),
    CONSTRAINT capacity_chk CHECK ((capacity > 0)),
    CONSTRAINT classroom_type_chk CHECK ((classroom_type > 0))
);

ALTER TABLE "Session".classroom OWNER TO postgres;

--
-- TOC entry 227 (class 1259 OID 16650)
-- Name: department; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".department (
    department_id integer NOT NULL,
    department_name character varying(20) NOT NULL,
    platform_id integer NOT NULL
);

ALTER TABLE "Session".department OWNER TO postgres;

--
-- TOC entry 219 (class 1259 OID 16487)

```

```

-- Name: direction; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".direction (
    direction_id integer NOT NULL,
    direction_name character varying(20) NOT NULL,
    study_level integer NOT NULL,
    CONSTRAINT study_level_chk CHECK ((study_level > 0))
);

ALTER TABLE "Session".direction OWNER TO postgres;

--
-- TOC entry 223 (class 1259 OID 16558)
-- Name: discipline; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".discipline (
    discipline_id integer NOT NULL,
    discipline_name character varying(20) NOT NULL,
    total_hours integer NOT NULL,
    lecture_hours integer NOT NULL,
    practice_hours integer NOT NULL,
    lab_hours integer NOT NULL
);

ALTER TABLE "Session".discipline OWNER TO postgres;

--
-- TOC entry 220 (class 1259 OID 16493)
-- Name: educational program; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session"."educational program" (
    educational_program_id integer NOT NULL,
    educational_program_name character varying(20) NOT NULL,
    education_form integer NOT NULL,
    department_id integer NOT NULL,
    direction_id integer NOT NULL
);

ALTER TABLE "Session"."educational program" OWNER TO postgres;

--
-- TOC entry 224 (class 1259 OID 16568)
-- Name: educational program discipline; Type: TABLE; Schema: Session; Owner:
postgres
--

CREATE TABLE "Session"."educational program discipline" (
    discipline_id integer NOT NULL,
    syllabus_id integer NOT NULL,
    ed_discipline_id integer NOT NULL,
    semesters character varying
);

ALTER TABLE "Session"."educational program discipline" OWNER TO postgres;
--

```

```

-- TOC entry 222 (class 1259 OID 16535)
-- Name: group; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session"."group" (
    group_id integer NOT NULL,
    syllabus_id integer NOT NULL,
    start_date DEFAULT '2022-09-01'::date NOT NULL,
    finish_date DEFAULT '2026-06-30'::date NOT NULL,
    group_number character varying(10)
);

ALTER TABLE "Session"."group" OWNER TO postgres;

--
-- TOC entry 228 (class 1259 OID 16655)
-- Name: platform; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".platform (
    platform_id integer NOT NULL,
    address character varying(70) NOT NULL
);

ALTER TABLE "Session".platform OWNER TO postgres;

--
-- TOC entry 229 (class 1259 OID 16668)
-- Name: schedule; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".schedule (
    platform_id integer NOT NULL,
    personal_id integer NOT NULL,
    group_id integer NOT NULL,
    date timestamp with time zone NOT NULL,
    classroom_id integer NOT NULL,
    schedule_id integer NOT NULL,
    ed_prog_disc_id integer
);

ALTER TABLE "Session".schedule OWNER TO postgres;

--
-- TOC entry 218 (class 1259 OID 16429)
-- Name: scholarship; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".scholarship (
    scholarship_id integer NOT NULL,
    scholarship_size integer NOT NULL,
    scholarship_type character varying(20) NOT NULL
);

ALTER TABLE "Session".scholarship OWNER TO postgres;

--
-- TOC entry 232 (class 1259 OID 16802)
-- Name: scholarship appointment; Type: TABLE; Schema: Session; Owner:

```



```

postgres
--

CREATE TABLE "Session"."scholarship appointment" (
    appointment_id integer NOT NULL,
    student_id integer NOT NULL,
    scholarship_id integer NOT NULL,
    date date NOT NULL
);

ALTER TABLE "Session"."scholarship appointment" OWNER TO postgres;

--
-- TOC entry 216 (class 1259 OID 16400)
-- Name: student; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".student (
    record book id integer NOT NULL,
    status integer DEFAULT 1 NOT NULL,
    education_form integer DEFAULT 1 NOT NULL,
    surname character varying(20) NOT NULL,
    name character varying(20) NOT NULL,
    patronymic character varying(20)
);

ALTER TABLE "Session".student OWNER TO postgres;

--
-- TOC entry 221 (class 1259 OID 16512)
-- Name: syllabus; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".syllabus (
    syllabus_id integer NOT NULL,
    edu_program_id integer NOT NULL,
    status integer NOT NULL,
    kcp integer NOT NULL,
    admission_year integer NOT NULL,
    CONSTRAINT admission_year_chk1 CHECK ((admission_year >= 1980)),
    CONSTRAINT admission_year_chk2 CHECK ((admission_year <= 2100)),
    CONSTRAINT kcp_check CHECK ((kcp > 0)),
    CONSTRAINT status_chk CHECK ((status > 0))
);

ALTER TABLE "Session".syllabus OWNER TO postgres;

--
-- TOC entry 225 (class 1259 OID 16588)
-- Name: teacher; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".teacher (
    personal_id integer NOT NULL,
    surname character varying(20) NOT NULL,
    name character varying(20) NOT NULL,
    patronymic character varying(20) NOT NULL
);

```

```

ALTER TABLE "Session".teacher OWNER TO postgres;

--
-- TOC entry 231 (class 1259 OID 16731)
-- Name: teacher; Type: TABLE; Schema: public; Owner: postgres
--

CREATE TABLE public.teacher (
    personal_id integer,
    surname character varying(255),
    name character varying(255),
    patronymic character varying(255)
);

ALTER TABLE public.teacher OWNER TO postgres;

--
-- TOC entry 3752 (class 0 OID 16409)
-- Dependencies: 217
-- Data for Name: active student; Type: TABLE DATA; Schema: Session; Owner: postgres
--

COPY "Session"."active student" (student_id, datel, date2, group_id,
record_book_id) FROM stdin;
5085 2023-10-22 2023-10-22 860 39784
1101 2023-10-22 2023-10-22 807 2722
8425 2023-10-22 2023-10-22 768 55816
2973 2023-10-22 2023-10-22 285 17671
5701 2023-10-22 2023-10-22 732 25641
8202 2023-10-22 2023-10-22 807 25641
7936 2023-10-22 2023-10-22 649 46678
9078 2023-10-22 2023-10-22 176 39784
2059 2023-10-22 2023-10-22 982 25641
7330 2023-10-22 2023-10-22 860 39784
1795 2023-10-22 2023-10-22 228 835
3283 2023-10-22 2023-10-22 136 47171
7606 2023-10-22 2023-10-22 228 42590
3514 2023-10-22 2023-10-22 441 26163
7470 2023-10-22 2023-10-22 982 42590
6890 2023-10-22 2023-10-22 228 63110
4027 2023-10-22 2023-10-22 747 46678
1895 2023-10-22 2023-10-22 335 37086
9105 2023-10-22 2023-10-22 443 2722
8819 2023-10-22 2023-10-22 583 26163
\.

--
-- TOC entry 3761 (class 0 OID 16620)
-- Dependencies: 226
-- Data for Name: attestation pass; Type: TABLE DATA; Schema: Session; Owner: postgres
--

COPY "Session"."attestation pass" (personal_id, student_id, discipline_id,
date, mark, attempt, attestation_id) FROM stdin;
1928 1101 22 2023-10-22 12 2 1
1928 9105 10 2023-10-22 23 2 2
2413 3514 87 2023-10-22 35 2 3
2413 8202 68 2023-10-22 6 3 4
2413 8819 87 2023-10-22 3 2 5

```

```

3758      8819      88 2023-10-22 4   1   6
4146      1795      30 2023-10-22 9   2   7
4146      1795      88 2023-10-22 27  1   8
4146      3514      15 2023-10-22 27  3   9
4146      8202      87 2023-10-22 20  3  10
7782      1895      92 2023-10-22 5   3  11
7782      7936      87 2023-10-22 14  2  12
7782      9105      30 2023-10-22 34  2  13
8201      1101       4 2023-10-22 21  3  14
8201      1895      15 2023-10-22 27  3  15
8201      3514      30 2023-10-22 29  1  16
8201      5085      15 2023-10-22 37  3  17
8201      5701      40 2023-10-22 24  3  18
8201      9105      15 2023-10-22 33  1  19
8201      9105      22 2023-10-22 37  3  20
\.
```

```

--
-- TOC entry 3765 (class 0 OID 16712)
-- Dependencies: 230
-- Data for Name: classroom; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

COPY "Session".classroom (classroom_id, department_id, classroom_type,
capacity, number) FROM stdin;
8980      397       1  416      \N
1311      969       9  145      \N
1198     9510      6  457      \N
3645     9599      1  377      \N
9743     6287      1  167      \N
3915      397       7  153      \N
9800     4295      1  13 \N
8298      969       9  323      \N
7238     5437      3  445      \N
6077     4295      6  368      \N
7047     4295     10  394      \N
1443     9510      6  349      \N
8748     2759      2  281      \N
6652     6287      1  174      \N
3235     5229      4   38 \N
2948     9599      6  426      \N
9294     6287     10  390      \N
1305     2759      7  108      \N
2772     9599      9  129      \N
1656     6287      6   21 \N
\.
```

```

--
-- TOC entry 3762 (class 0 OID 16650)
-- Dependencies: 227
-- Data for Name: department; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

COPY "Session".department (department_id, department_name, platform_id) FROM
stdin;
2759      Barr Ltd      7904
5359      Williams-Whitney    7603
6287      Lee, Lopez and Turne  8522
7302      Williams Ltd      7603

```

```

397   Hernandez-Tucker      7603
9510  Murray-Gonzales      588
9103  Robles-Wood          7603
9844  Newton and Sons      8990
5229  Morris, Robles and J  8967
9599  Ballard-Smith        4448
5437  Graham LLC           8522
7414  Turner, Hunter and B  8177
1417  Giles, Garcia and We  9561
6520  Larson, Bautista and  3461
5138  Tyler-Hayes           7603
969   Hunter Group          8578
8562  Conner, Ortega and A   588
4295  Sheppard LLC          2291
9205  Montgomery PLC        8309
3354  Sweeney-Ramirez       7904
\.
```

```

--
-- TOC entry 3754 (class 0 OID 16487)
-- Dependencies: 219
-- Data for Name: direction; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

COPY "Session".direction (direction_id, direction_name, study_level) FROM
stdin;
6616   Tasha      4
9363   Christopher  4
6422   Timothy    3
3978   Erica      4
663    Gabrielle  2
1833   John       4
4176   James      4
3715   Erin       2
2213   Justin     3
4821   Danielle   2
28 Theresa    4
2093   Hector     2
1212   Vanessa    4
1541   Bernard    2
8586   Gavin      4
8883   Stephanie  4
2115   Brian      3
6593   Michelle   2
4791   Christopher  2
5936   Breanna    1
\.
```

```

--
-- TOC entry 3758 (class 0 OID 16558)
-- Dependencies: 223
-- Data for Name: discipline; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

COPY "Session".discipline (discipline_id, discipline_name, total_hours,
lecture_hours, practice_hours, lab_hours) FROM stdin;
15 Diaz Group 128      2  65 61
68 Compton-Brown 151      83 56 12
40 Thomas-Gonzalez 186      25 66 95

```

```

4 Hart-Orozco 118 66 36 16
22 Barr-Barnes 162 74 56 32
92 Knox Inc 194 51 99 44
30 Clark, Randall and C 146 61 49 36
10 Garner, Williams and 106 26 9 71
88 Nolan and Sons 49 40 6 3
87 Baker, Mcgrath and W 174 30 67 77
\.
```

```

--
-- TOC entry 3755 (class 0 OID 16493)
-- Dependencies: 220
-- Data for Name: educational program; Type: TABLE DATA; Schema: Session;
Owner: postgres
--

COPY "Session"."educational program" (educational_program_id,
educational_program_name, education_form, department_id, direction_id) FROM
stdin;
5320 Ferguson, Crosby and 2 5229 3715
746 Williams-Sanders 8 1417 6422
8282 Kline-Brooks 3 5437 6422
1786 Robinson-Jones 8 8562 6422
7 Bolton, Anderson and 1 1417 663
6750 Perez, Mckinney and 8 2759 2115
9761 Wong LLC 6 3354 4791
293 Smith-Williamson 7 397 8883
3145 Rodriguez-Rivera 1 7414 2115
5040 Sanchez-Orozco 6 7302 3978
5631 Braun-Sanchez 9 9510 3978
5535 Hayes, Clayton and V 3 9205 8586
5946 Ray-Miranda 1 5359 3978
773 Young, Thomas and Th 3 5229 4821
6906 Young-Bowman 3 7302 8586
9681 Petersen-Peterson 8 5437 3978
6044 White-Garcia 9 2759 5936
9662 Parker and Sons 3 1417 1541
3241 Gibson and Sons 2 5229 4176
3185 Dunn LLC 10 9205 9363
\.
```

```

--
-- TOC entry 3759 (class 0 OID 16568)
-- Dependencies: 224
-- Data for Name: educational program discipline; Type: TABLE DATA; Schema:
Session; Owner: postgres
--

COPY "Session"."educational program discipline" (discipline_id, syllabus_id,
ed_discipline_id, semesters) FROM stdin;
88 958 2 \N
4 892 10 \N
10 788 9 \N
15 302 8 \N
22 928 7 \N
30 622 6 \N
40 845 5 \N
68 928 4 \N
87 622 3 \N
92 928 1 \N
\.
```

```
--
-- TOC entry 3757 (class 0 OID 16535)
-- Dependencies: 222
-- Data for Name: group; Type: TABLE DATA; Schema: Session; Owner: postgres
--
```

```
COPY "Session"."group" (group_id, syllabus_id, start, finish, group_number)
FROM stdin;
176      168      2022-09-01 2026-06-30 \N
768      168      2022-09-01 2026-06-30 \N
126      62 2022-09-01 2026-06-30 \N
136      502      2022-09-01 2026-06-30 \N
259      135      2022-09-01 2026-06-30 \N
807      135      2022-09-01 2026-06-30 \N
860      788      2022-09-01 2026-06-30 \N
732      107      2022-09-01 2026-06-30 \N
747      285      2022-09-01 2026-06-30 \N
443      571      2022-09-01 2026-06-30 \N
285      958      2022-09-01 2026-06-30 \N
583      892      2022-09-01 2026-06-30 \N
649      135      2022-09-01 2026-06-30 \N
382      54 2022-09-01 2026-06-30 \N
982      201      2022-09-01 2026-06-30 \N
441      791      2022-09-01 2026-06-30 \N
265      892      2022-09-01 2026-06-30 \N
228      928      2022-09-01 2026-06-30 \N
855      502      2022-09-01 2026-06-30 \N
335      845      2022-09-01 2026-06-30 \N
\.
```

```
--
-- TOC entry 3763 (class 0 OID 16655)
-- Dependencies: 228
-- Data for Name: platform; Type: TABLE DATA; Schema: Session; Owner:
postgres
--
```

```
COPY "Session".platform (platform_id, address) FROM stdin;
4448      11901 Davidson Lake Apt. 722\nWest Bobby, KY 79799
8442      4293 Julie Cove\nGibsonmouth, DC 72194
8309      907 Nicholas Squares Apt. 768\nSouth Raymond, DE 17842
588      9319 Dixon Island\nJenniferbury, FM 20979
2294      63732 Jenna Dale\nEast Kristophershire, RI 37820
6389      817 Martinez Pine Apt. 543\nJosephville, FL 28854
7603      USNV Fitzgerald\nFPO AA 04601
8990      3520 Beasley Roads Apt. 279\nPamelabury, SD 25167
3461      96865 King Parkway\nNicoleside, OH 09694
6906      3867 Ashley Rue Suite 994\nRalphmouth, WV 66843
8578      08481 Dixon Station Suite 371\nRonaldside, MN 86887
7904      Unit 9590 Box 8955\nDPO AE 79432
8967      89611 Jennifer Lakes Suite 700\nCarpenterland, IL 97331
9561      8139 Gillespie Mountain\nCharlesberg, VT 65015
2291      510 Nathaniel Roads\nNew Steven, ID 29071
8921      8651 Alicia Junctions Apt. 225\nPort Kristina, AK 78635
8177      9850 Victoria Path Suite 977\nMasonmouth, DE 17150
1772      0087 David Rapids\nNew Johnview, MO 69547
1910      69023 Taylor Square\nGregorymouth, MD 93807
8522      50292 Williams Harbor Suite 618\nLake Elizabeth, CT 27615
\.
```

```

--
-- TOC entry 3764 (class 0 OID 16668)
-- Dependencies: 229
-- Data for Name: schedule; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

COPY "Session".schedule (platform_id, personal_id, group_id, date,
classroom_id, schedule_id, ed_prog_disc_id) FROM stdin;
588      24436   807      2023-10-22 00:00:00+03 3235      1   \N
2291     39413   228      2023-10-22 00:00:00+03 1198      2   \N
2294     7782    768      2023-10-22 00:00:00+03 8298      3   \N
6389     55944   136      2023-10-22 00:00:00+03 6652      4   \N
6389     8201    335      2023-10-22 00:00:00+03 8298      5   \N
6389     1928    807      2023-10-22 00:00:00+03 7238      6   \N
6906     55944   443      2023-10-22 00:00:00+03 1305      7   \N
8177     72090   768      2023-10-22 00:00:00+03 6652      8   \N
8442     75616   768      2023-10-22 00:00:00+03 9294      9   \N
8522     1928    136      2023-10-22 00:00:00+03 1311     10  \N
8522     86439   335      2023-10-22 00:00:00+03 1656     11  \N
8522     1928    228      2023-10-22 00:00:00+03 8298     12  \N
8578     85500   176      2023-10-22 00:00:00+03 2772     14  \N
8578     27431   265      2023-10-22 00:00:00+03 1443     13  \N
8967     7782    265      2023-10-22 00:00:00+03 7047     15  \N
8967     1928    285      2023-10-22 00:00:00+03 6077     16  \N
8990     73966   443      2023-10-22 00:00:00+03 2772     17  \N
8990     86439   649      2023-10-22 00:00:00+03 1656     18  \N
9561     69730   768      2023-10-22 00:00:00+03 1656     19  \N
9561     55944   228      2023-10-22 00:00:00+03 3235     20  \N
\.
```

```

--
-- TOC entry 3753 (class 0 OID 16429)
-- Dependencies: 218
-- Data for Name: scholarship; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

COPY "Session".scholarship (scholarship_id, scholarship_size,
scholarship_type) FROM stdin;
1   83058   Sergio
12  37343   Marissa
75  43509   John
62  5438    Vincent
67  53334   Melissa
45  55336   Adriana
83  89004   Kari
70  68003   Kathryn
11  67702   Kimberly
56  87390   Anthony
27  28444   Ivan
69  8513    Travis
46  22941   Brenda
23  10666   Jeremy
93  25282   Michael
7   26466   Jennifer
13  91025   Andrea
65  85342   Alyssa
34  25027   Gary
43  80010   Nathan
\.
```

```
--
-- TOC entry 3767 (class 0 OID 16802)
-- Dependencies: 232
-- Data for Name: scholarship appointment; Type: TABLE DATA; Schema: Session;
Owner: postgres
--

COPY "Session"."scholarship appointment" (appointment_id, student_id,
scholarship_id, date) FROM stdin;
\.
```

```
--
-- TOC entry 3751 (class 0 OID 16400)
-- Dependencies: 216
-- Data for Name: student; Type: TABLE DATA; Schema: Session; Owner: postgres
--

COPY "Session".student (record_book_id, status, education_form, surname,
name, patronymic) FROM stdin;
37086 8 9 Brett Lindsey George
41622 5 1 Daniel Adrian Joel
17671 5 8 Angelica Chelsey Carolyn
95096 9 2 Kyle Alejandro Daniel
30565 5 5 Maria Jennifer Thomas
46678 10 10 Jon Joseph Sherri
39784 7 3 John Roger Megan
55982 2 5 Kari Shawn Felicia
10247 5 2 Susan Joshua Travis
63110 12 11 Victor Maria James
47171 2 7 Katherine James Jerry
42590 10 11 Nathaniel Ann Derek
18778 10 2 Joshua Heather Richard
2722 7 7 Sara Andrew Kara
74925 11 2 Michael Alicia Renee
55816 7 12 Gerald Lisa Lori
26902 11 10 Kevin Jessica Melissa
26163 4 2 Ricky Sandra Maria
25641 3 12 Kristin Amy Monica
835 2 2 Kristen Michael John
\.
```

```
--
-- TOC entry 3756 (class 0 OID 16512)
-- Dependencies: 221
-- Data for Name: syllabus; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

COPY "Session".syllabus (syllabus_id, edu_program_id, status, kcp,
admission_year) FROM stdin;
201 1541 5 863 2059
54 6422 2 718 2048
502 8883 4 560 1980
214 663 5 745 2040
135 6616 1 609 2094
285 8586 1 723 2069
302 5936 5 787 2030
107 8586 5 105 2087
701 5936 5 781 2051
```



```

168      2115      1  540      2026
892      4821      4  571      2097
958      1541      4  538      2036
845      2213      4  815      2019
928      8586      5  674      2049
424      28  4    212      2052
622      2115      2  238      2024
791      5936      5  668      2017
62 1833      5  261      2081
571      1541      5  528      2008
788      1212      3  806      1985
\.
```

--

```

-- TOC entry 3760 (class 0 OID 16588)
-- Dependencies: 225
-- Data for Name: teacher; Type: TABLE DATA; Schema: Session; Owner: postgres
--
```

```

COPY "Session".teacher (personal_id, surname, name, patronymic) FROM stdin;
7782   Kevin   Robert Michele
24436  Martin  Stephen   Natalie
4146   Erika    Charles   Steve
86439  Tara     Jennifer  Angela
69730  Elizabeth Richard  Lydia
72090  Chase    Matthew   Robert
27431  Dylan    Jon       Oscar
8201   Kathleen Scott     Rachel
36577  Jason    Christina Pamela
75616  Kristin  Kimberly  David
3758   Natalie  Christopher Sierra
55944  Jessica  Jamie     Raymond
45079  Robert   Levi      Katie
81097  Edward   Nicole    Dustin
85500  Timothy  Charles   Diane
72547  Destiny  Nathan    Christopher
1928   Phillip  Jessica   Terrance
73966  Jennifer Jose      Nicholas
39413  Virginia Alexander Andre
2413   Adam     Janice    Ashley
\.
```

--

```

-- TOC entry 3766 (class 0 OID 16731)
-- Dependencies: 231
-- Data for Name: teacher; Type: TABLE DATA; Schema: public; Owner: postgres
--
```

```

COPY public.teacher (personal_id, surname, name, patronymic) FROM stdin;
42304  Evan     Richard   Christopher
15433  Jake     Andrea    John
62510  Melissa  Jessica   Wesley
44963  Brandi   Kimberly  Walter
86448  Connor  Brent     Aaron
29769  Ruth     Mercedes  Steven
40230  Jeremy   Wendy     Sally
92936  Rebecca  Eric      Dawn
35947  Alexander Andres    Nancy
99065  Hayley   Thomas    Scott
51430  Darlene  Diana     David
4985   Cody     Robert    Kelly

```

73941 Jeremy John Keith  
98804 Christopher Sherry Nicolas  
53145 Jacob Gary Isaac  
9969 Tiffany Jenny Scott  
88175 David Lori Karen  
24622 Cynthia Antonio Donna  
54647 Stephanie Robert Melissa  
66224 Jeffrey Jason Benjamin  
27667 Mason Ashley Jacob  
61882 Frank Chloe Dylan  
68878 Bradley Jennifer Luke  
16267 Kevin Heather Brittney  
61539 Thomas Susan Todd  
38102 Jeremy Jonathan David  
90898 Stephen Jennifer Kyle  
58402 Samantha Joseph Valerie  
12950 Jeremiah Tiffany Katelyn  
7130 Shannon Keith Karen  
82206 Brenda Joshua Christopher  
29952 Maria Kyle Brittany  
19283 Mark Carrie Elizabeth  
89962 Sarah Alexis Julia  
82924 Ryan Tracy Rachel  
66047 David Stephanie Penny  
12970 Chris Brenda Robert  
93784 Ricky Katelyn Christy  
26995 Robert Paige Tony  
23542 Michelle Donald Nicole  
94798 David Sarah Hannah  
13880 Edward Adrienne Michael  
58442 Hector Gina Anne  
5915 Jason Miranda Allison  
93738 Lauren Robert Jackson  
75123 Victoria Katie Jared  
69987 Leslie Andrea Brian  
4 Sarah Angelica Gerald  
31635 Ashley Amanda Laurie  
8675 Keith Stephanie Alison  
55928 James Terry Jennifer  
85940 Brent Lisa Andrew  
12345 James Carlos Donna  
60841 David Jenna Heidi  
94423 Martha Gail Alexandra  
77067 Diana Taylor Lynn  
4807 Christina Brandon Sarah  
90782 James Jennifer Steven  
52405 Michelle Margaret Sydney  
53366 Kevin Monica Eric  
571 Jonathan Riley Neil  
19179 Brittany Rebecca Heather  
79164 Brittany Paul Cynthia  
31943 David Angel Margaret  
76908 Karen Alicia Christina  
28493 Joann Jackson Michelle  
74205 Sharon Patricia Michelle  
34338 Amanda Tara Lori  
22722 Tammy Jennifer Craig  
55763 Melissa Patrick Tiffany  
48051 Wendy Sarah Gerald  
91017 John Tara Rachel  
33894 James Christina Michele  
13825 Robert Michelle Kimberly  
67498 Alexandra Jamie Abigail

```

79977 Jeffrey Mary Kevin
18471 Steven Tyler Jesus
48012 Christopher Amanda Christopher
42134 Carolyn Gene Olivia
87029 Gina Kara Kristy
25947 Paula Wayne Nicole
\..

--
-- TOC entry 3536 (class 2606 OID 16413)
-- Name: active student active student_pkey; Type: CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."active student"
    ADD CONSTRAINT "active student_pkey" PRIMARY KEY (student_id);

--
-- TOC entry 3586 (class 2606 OID 16806)
-- Name: scholarship appointment appointment_uid; Type: CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."scholarship appointment"
    ADD CONSTRAINT appointment_uid PRIMARY KEY (appointment_id);

--
-- TOC entry 3525 (class 2606 OID 16748)
-- Name: attestation pass attempt_chk; Type: CHECK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE "Session"."attestation pass"
    ADD CONSTRAINT attempt_chk CHECK ((attempt >= 0)) NOT VALID;

--
-- TOC entry 3526 (class 2606 OID 16749)
-- Name: attestation pass attempt_chk1; Type: CHECK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE "Session"."attestation pass"
    ADD CONSTRAINT attempt_chk1 CHECK ((attempt <= 3)) NOT VALID;

--
-- TOC entry 3570 (class 2606 OID 16778)
-- Name: attestation pass attestation pass_pkey; Type: CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."attestation pass"
    ADD CONSTRAINT "attestation pass_pkey" PRIMARY KEY (attestation_id);

--
-- TOC entry 3572 (class 2606 OID 16780)
-- Name: attestation pass attestation_uid; Type: CONSTRAINT; Schema: Session;
Owner: postgres

```

```

--
ALTER TABLE ONLY "Session"."attestation pass"
    ADD CONSTRAINT attestation_uid UNIQUE (attestation_id);

--
-- TOC entry 3582 (class 2606 OID 16818)
-- Name: classroom classroom_pkey; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".classroom
    ADD CONSTRAINT classroom_pkey PRIMARY KEY (classroom_id);

--
-- TOC entry 3584 (class 2606 OID 16720)
-- Name: classroom classroom_uid; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".classroom
    ADD CONSTRAINT classroom_uid UNIQUE (classroom_id);

--
-- TOC entry 3514 (class 2606 OID 16752)
-- Name: active student date_chk; Type: CHECK CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE "Session"."active student"
    ADD CONSTRAINT date_chk CHECK ((date1 >= '1982-01-01'::date)) NOT VALID;

--
-- TOC entry 3515 (class 2606 OID 16751)
-- Name: active student dates_chk; Type: CHECK CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE "Session"."active student"
    ADD CONSTRAINT dates_chk CHECK ((date1 <= date2)) NOT VALID;

--
-- TOC entry 3574 (class 2606 OID 16654)
-- Name: department department_uid; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".department
    ADD CONSTRAINT department_uid PRIMARY KEY (department_id);

--
-- TOC entry 3544 (class 2606 OID 16492)
-- Name: direction direction_uid; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".direction

```

```

        ADD CONSTRAINT direction_uid PRIMARY KEY (direction_id);

--
-- TOC entry 3558 (class 2606 OID 16562)
-- Name: discipline discipline_pkey; Type: CONSTRAINT; Schema: Session;
-- Owner: postgres
--

ALTER TABLE ONLY "Session".discipline
    ADD CONSTRAINT discipline_pkey PRIMARY KEY (discipline_id);

--
-- TOC entry 3560 (class 2606 OID 16619)
-- Name: educational program discipline discipline_uid; Type: CONSTRAINT;
-- Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."educational program discipline"
    ADD CONSTRAINT discipline_uid UNIQUE (discipline_id);

--
-- TOC entry 3524 (class 2606 OID 16769)
-- Name: educational program discipline ed_discipline_id_chk; Type: CHECK
-- CONSTRAINT; Schema: Session; Owner: postgres
--

ALTER TABLE "Session"."educational program discipline"
    ADD CONSTRAINT ed_discipline_id_chk CHECK ((ed_discipline_id >= 1)) NOT
VALID;

--
-- TOC entry 3562 (class 2606 OID 16767)
-- Name: educational program discipline ed_discipline_uid; Type: CONSTRAINT;
-- Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."educational program discipline"
    ADD CONSTRAINT ed_discipline_uid UNIQUE (ed_discipline_id);

--
-- TOC entry 3519 (class 2606 OID 16505)
-- Name: educational program education_form.chk; Type: CHECK CONSTRAINT;
-- Schema: Session; Owner: postgres
--

ALTER TABLE "Session"."educational program"
    ADD CONSTRAINT "education_form.chk" CHECK ((education_form > 0)) NOT
VALID;

--
-- TOC entry 3512 (class 2606 OID 16473)
-- Name: student education_form_chk; Type: CHECK CONSTRAINT; Schema: Session;
-- Owner: postgres
--

ALTER TABLE "Session".student
    ADD CONSTRAINT education_form_chk CHECK ((education_form > 0)) NOT VALID;

```

```

--
-- TOC entry 3564 (class 2606 OID 16782)
-- Name: educational_program_discipline_educational_program_discipline_pkey;
Type: CONSTRAINT; Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."educational_program_discipline"
    ADD CONSTRAINT educational_program_discipline_pkey PRIMARY KEY
(ed_discipline_id);

--
-- TOC entry 3546 (class 2606 OID 16497)
-- Name: educational_program_educational_program_pkey; Type: CONSTRAINT;
Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."educational_program"
    ADD CONSTRAINT educational_program_pkey PRIMARY KEY
(educational_program_id);

--
-- TOC entry 3548 (class 2606 OID 16499)
-- Name: educational_program_educational_program_uid; Type: CONSTRAINT;
Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."educational_program"
    ADD CONSTRAINT educational_program_uid UNIQUE (educational_program_id)
INCLUDE (educational_program_id);

--
-- TOC entry 3554 (class 2606 OID 16784)
-- Name: group_group_pkey; Type: CONSTRAINT; Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."group"
    ADD CONSTRAINT group_pkey PRIMARY KEY (group_id);

--
-- TOC entry 3556 (class 2606 OID 16541)
-- Name: group_group_uid; Type: CONSTRAINT; Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."group"
    ADD CONSTRAINT group_uid UNIQUE (group_id);

--
-- TOC entry 3527 (class 2606 OID 16750)
-- Name: attestation_pass_mark_chk; Type: CHECK CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE "Session"."attestation_pass"
    ADD CONSTRAINT mark_chk CHECK ((mark >= 0)) NOT VALID;

```

```

--
-- TOC entry 3566 (class 2606 OID 16592)
-- Name: teacher personal_pkey; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".teacher
    ADD CONSTRAINT personal_pkey PRIMARY KEY (personal_id);

--
-- TOC entry 3568 (class 2606 OID 16820)
-- Name: teacher personal_uid; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".teacher
    ADD CONSTRAINT personal_uid UNIQUE (personal_id);

--
-- TOC entry 3576 (class 2606 OID 16659)
-- Name: platform platform_uid; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".platform
    ADD CONSTRAINT platform_uid PRIMARY KEY (platform_id);

--
-- TOC entry 3532 (class 2606 OID 16426)
-- Name: student record_book_uid; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".student
    ADD CONSTRAINT record_book_uid UNIQUE (record_book_id);

--
-- TOC entry 3528 (class 2606 OID 16791)
-- Name: schedule schedule_id_chk; Type: CHECK CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE "Session".schedule
    ADD CONSTRAINT schedule_id_chk CHECK ((schedule_id > 0)) NOT VALID;

--
-- TOC entry 3578 (class 2606 OID 16788)
-- Name: schedule schedule_pkey; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".schedule
    ADD CONSTRAINT schedule_pkey PRIMARY KEY (schedule_id);

--
-- TOC entry 3580 (class 2606 OID 16790)
-- Name: schedule schedule_uid; Type: CONSTRAINT; Schema: Session; Owner:

```

```

postgres
--

ALTER TABLE ONLY "Session".schedule
    ADD CONSTRAINT schedule_uid UNIQUE (schedule_id);

--
-- TOC entry 3540 (class 2606 OID 16435)
-- Name: scholarship scholarship_pkey; Type: CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE ONLY "Session".scholarship
    ADD CONSTRAINT scholarship_pkey PRIMARY KEY (scholarship_id);

--
-- TOC entry 3516 (class 2606 OID 16452)
-- Name: scholarship scholarship_size_chk; Type: CHECK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE "Session".scholarship
    ADD CONSTRAINT scholarship_size_chk CHECK ((scholarship_size > 0)) NOT
VALID;

--
-- TOC entry 3542 (class 2606 OID 16451)
-- Name: scholarship scholarship_uid; Type: CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE ONLY "Session".scholarship
    ADD CONSTRAINT scholarship_uid UNIQUE (scholarship_id);

--
-- TOC entry 3513 (class 2606 OID 16472)
-- Name: student status_chk; Type: CHECK CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE "Session".student
    ADD CONSTRAINT status_chk CHECK ((status > 0)) NOT VALID;

--
-- TOC entry 3534 (class 2606 OID 16408)
-- Name: student student_pkey; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".student
    ADD CONSTRAINT student_pkey PRIMARY KEY (record_book_id);

--
-- TOC entry 3538 (class 2606 OID 16424)
-- Name: active student student_uid; Type: CONSTRAINT; Schema: Session;
Owner: postgres
--

```



```

ALTER TABLE ONLY "Session"."active student"
    ADD CONSTRAINT student_uid UNIQUE NULLS NOT DISTINCT (student_id);

--
-- TOC entry 3518 (class 2606 OID 16736)
-- Name: direction study_level_chk1; Type: CHECK CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE "Session".direction
    ADD CONSTRAINT study_level_chk1 CHECK ((study_level < 5)) NOT VALID;

--
-- TOC entry 3550 (class 2606 OID 16799)
-- Name: syllabus syllabus_pkey; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".syllabus
    ADD CONSTRAINT syllabus_pkey PRIMARY KEY (syllabus_id);

--
-- TOC entry 3552 (class 2606 OID 16534)
-- Name: syllabus syllabus_uid; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".syllabus
    ADD CONSTRAINT syllabus_uid UNIQUE (syllabus_id);

--
-- TOC entry 3607 (class 2620 OID 16567)
-- Name: discipline discipline_trigger; Type: TRIGGER; Schema: Session;
Owner: postgres
--

CREATE TRIGGER discipline_trigger BEFORE INSERT OR UPDATE OF total_hours,
lecture_hours, practice_hours, lab_hours ON "Session".discipline FOR EACH ROW
EXECUTE FUNCTION "Session".hours_trigger();

--
-- TOC entry 3599 (class 2606 OID 16726)
-- Name: schedule classroom_id; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".schedule
    ADD CONSTRAINT classroom_id FOREIGN KEY (classroom_id) REFERENCES
"Session".classroom(classroom_id) NOT VALID;

--
-- TOC entry 3604 (class 2606 OID 16721)
-- Name: classroom department_id; Type: FK CONSTRAINT; Schema: Session;
Owner: postgres
--

```

```

ALTER TABLE ONLY "Session".classroom
    ADD CONSTRAINT department_id FOREIGN KEY (department_id) REFERENCES
"Session".department(department_id);

--
-- TOC entry 3589 (class 2606 OID 16821)
-- Name: educational program department_id; Type: FK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."educational program"
    ADD CONSTRAINT department_id FOREIGN KEY (department_id) REFERENCES
"Session".department(department_id) NOT VALID;

--
-- TOC entry 3590 (class 2606 OID 16500)
-- Name: educational program direction_id; Type: FK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."educational program"
    ADD CONSTRAINT direction_id FOREIGN KEY (direction_id) REFERENCES
"Session".direction(direction_id) NOT VALID;

--
-- TOC entry 3593 (class 2606 OID 16573)
-- Name: educational program discipline discipline_id; Type: FK CONSTRAINT;
Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."educational program discipline"
    ADD CONSTRAINT discipline_id FOREIGN KEY (discipline_id) REFERENCES
"Session".discipline(discipline_id);

--
-- TOC entry 3595 (class 2606 OID 16645)
-- Name: attestation pass discipline_id; Type: FK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."attestation pass"
    ADD CONSTRAINT discipline_id FOREIGN KEY (discipline_id) REFERENCES
"Session"."educational program discipline"(discipline_id);

--
-- TOC entry 3600 (class 2606 OID 16841)
-- Name: schedule ed_prog_fkey; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".schedule
    ADD CONSTRAINT ed_prog_fkey FOREIGN KEY (ed_prog_disc_id) REFERENCES
"Session"."educational program discipline"(ed_discipline_id) NOT VALID;

--
-- TOC entry 3591 (class 2606 OID 16826)
-- Name: syllabus edu_program_fkey; Type: FK CONSTRAINT; Schema: Session;

```

```

Owner: postgres
--

ALTER TABLE ONLY "Session".syllabus
    ADD CONSTRAINT edu_program_fkey FOREIGN KEY (edu_program_id) REFERENCES
"Session"."educational_program"(educational_program_id) NOT VALID;

--
-- TOC entry 3601 (class 2606 OID 16692)
-- Name: schedule group_id; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".schedule
    ADD CONSTRAINT group_id FOREIGN KEY (group_id) REFERENCES
"Session"."group"(group_id) NOT VALID;

--
-- TOC entry 3587 (class 2606 OID 16831)
-- Name: active student group_pkey; Type: FK CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE ONLY "Session"."active student"
    ADD CONSTRAINT group_pkey FOREIGN KEY (group_id) REFERENCES
"Session"."group"(group_id) NOT VALID;

--
-- TOC entry 3596 (class 2606 OID 16625)
-- Name: attestation pass personal_id; Type: FK CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE ONLY "Session"."attestation pass"
    ADD CONSTRAINT personal_id FOREIGN KEY (personal_id) REFERENCES
"Session".teacher(personal_id);

--
-- TOC entry 3602 (class 2606 OID 16683)
-- Name: schedule personal_id; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".schedule
    ADD CONSTRAINT personal_id FOREIGN KEY (personal_id) REFERENCES
"Session".teacher(personal_id);

--
-- TOC entry 3598 (class 2606 OID 16663)
-- Name: department platform_id; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".department
    ADD CONSTRAINT platform_id FOREIGN KEY (platform_id) REFERENCES
"Session".platform(platform_id) NOT VALID;

```

```

--
-- TOC entry 3603 (class 2606 OID 16673)
-- Name: schedule platform_id; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".schedule
    ADD CONSTRAINT platform_id FOREIGN KEY (platform_id) REFERENCES
"Session".platform(platform_id);

--
-- TOC entry 3588 (class 2606 OID 16418)
-- Name: active student record_book_pkey; Type: FK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."active student"
    ADD CONSTRAINT record_book_pkey FOREIGN KEY (record_book_id) REFERENCES
"Session".student(record_book_id) NOT VALID;

--
-- TOC entry 3605 (class 2606 OID 16812)
-- Name: scholarship appointment scholarship_fkey; Type: FK CONSTRAINT;
Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."scholarship appointment"
    ADD CONSTRAINT scholarship_fkey FOREIGN KEY (scholarship_id) REFERENCES
"Session".scholarship(scholarship_id);

--
-- TOC entry 3606 (class 2606 OID 16807)
-- Name: scholarship appointment student_fkey; Type: FK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."scholarship appointment"
    ADD CONSTRAINT student_fkey FOREIGN KEY (student_id) REFERENCES
"Session".student(record_book_id);

--
-- TOC entry 3597 (class 2606 OID 16630)
-- Name: attestation pass student_id; Type: FK CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE ONLY "Session"."attestation pass"
    ADD CONSTRAINT student_id FOREIGN KEY (student_id) REFERENCES
"Session"."active student"(student_id);

--
-- TOC entry 3592 (class 2606 OID 16542)
-- Name: group syllabus_id; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session"."group"
    ADD CONSTRAINT syllabus_id FOREIGN KEY (syllabus_id) REFERENCES

```

```
"Session".syllabus(syllabus_id);

--
-- TOC entry 3594 (class 2606 OID 16578)
-- Name: educational program discipline syllabus_id; Type: FK CONSTRAINT;
Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."educational program discipline"
    ADD CONSTRAINT syllabus_id FOREIGN KEY (syllabus_id) REFERENCES
"Session".syllabus(syllabus_id);

-- Completed on 2023-10-26 16:32:13 MSK

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

## Вывод

В ходе лабораторной работы я научилась создавать, заполнять, восстанавливать и сохранять баз данных PostgreSQL с использованием программы pgAdmin4. В процессе лабораторной работы была создана база данных и таблицы в соответствии с заданием. Были заданы необходимые привязки и ограничения, после чего таблица была заполнена данными. Для безопасности в случае сбоя было создано две резервные копии, которые позволили восстановить базу данных без потерь, а также посмотреть на листинг кода.