

**Министерство науки и высшего образования Российской Федерации**  
федеральное государственное автономное образовательное учреждение высшего  
образования  
**«НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО»**

**Отчет**

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

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

Автор: Фролова К.И.

Факультет: ИКТ

Группа: K3239

Преподаватель: Говорова М.М.



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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 12. БД «Сессия»**

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

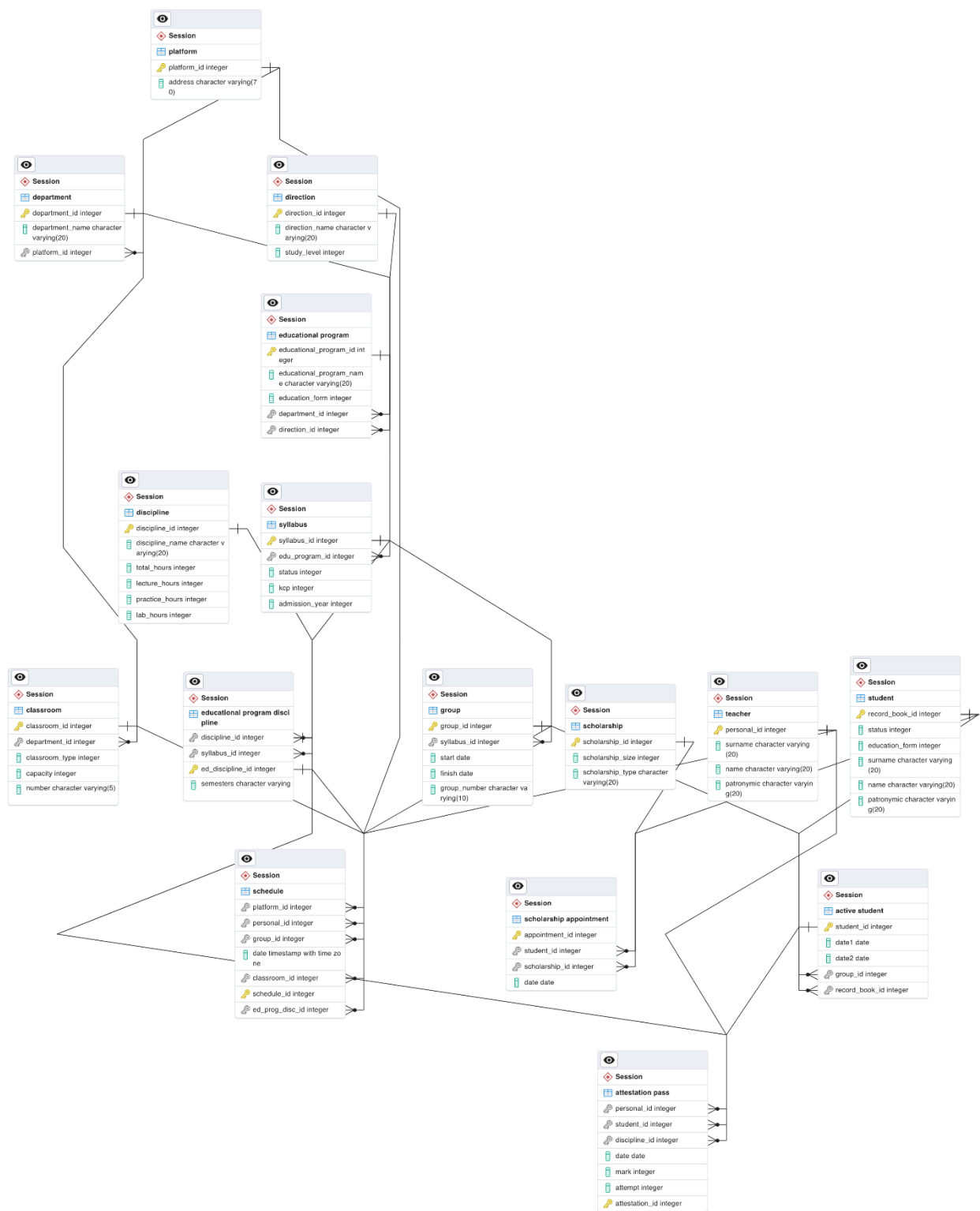


Рисунок 1 – Схема логической модели базы данных.

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, date1, 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

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```

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
--

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```

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"

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```

        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.