

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

Отчет

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

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

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Цель работы

Овладеть практическими навыками создания таблиц базы данных PostgreSQL 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.

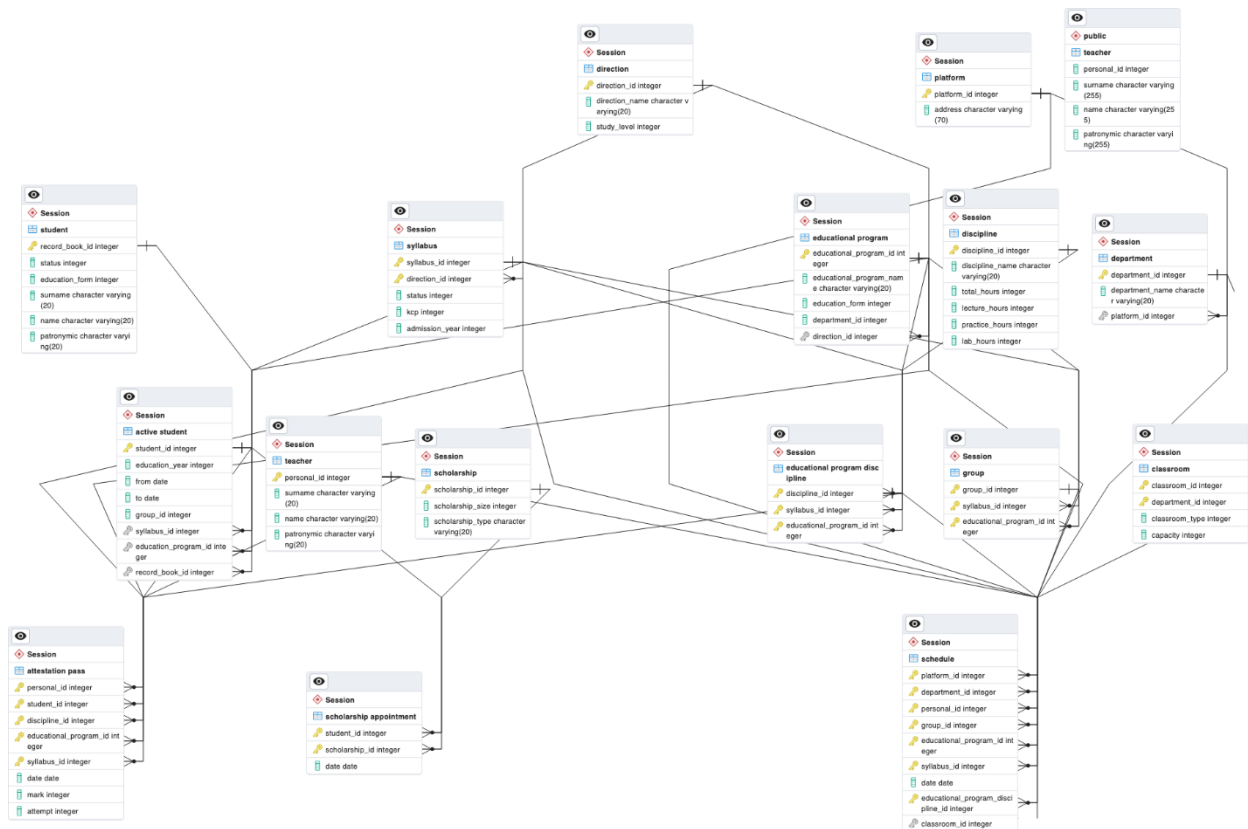


Рисунок 1 – Схема логической модели базы данных.

Листинг кода дампа приведен ниже в листинге 1:

Листинг 1 – Описание атрибутов сущностей

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

-- Dropped from database version 16.0
-- Dropped by pg_dump version 16.0

-- Started on 2023-10-22 17:42:22 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,
    education_year integer DEFAULT 1 NOT NULL,
    "from" date NOT NULL,
    "to" date NOT NULL,
    group_id integer NOT NULL,
    syllabus_id integer NOT NULL,
    education_program_id integer NOT NULL,
    record_book_id integer NOT NULL
);

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

--
-- TOC entry 227 (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,
    educational_program_id integer NOT NULL,
    syllabus_id integer NOT NULL,
    date date NOT NULL,
    mark integer NOT NULL,
    attempt integer
);

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

--
-- TOC entry 231 (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,
    CONSTRAINT capacity_chk CHECK ((capacity > 0)),
    CONSTRAINT classroom_type_chk CHECK ((classroom_type > 0))
);

ALTER TABLE "Session".classroom OWNER TO postgres;

--
-- TOC entry 228 (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 220 (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 224 (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 221 (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 225 (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,
    educational_program_id integer NOT NULL
);

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

--
-- TOC entry 223 (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,
    educational_program_id integer NOT NULL
);

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

--
-- TOC entry 229 (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 230 (class 1259 OID 16668)
-- Name: schedule; Type: TABLE; Schema: Session; Owner: postgres
--

CREATE TABLE "Session".schedule (
    platform_id integer NOT NULL,

```

```

    department_id integer NOT NULL,
    personal_id integer NOT NULL,
    group_id integer NOT NULL,
    educational_program_id integer NOT NULL,
    syllabus_id integer NOT NULL,
    date date NOT NULL,
    educational_program_discipline_id integer NOT NULL,
    classroom_id integer NOT NULL
);

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 219 (class 1259 OID 16474)
-- Name: scholarship appointment; Type: TABLE; Schema: Session; Owner:
postgres
--

CREATE TABLE "Session"."scholarship appointment" (
    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 222 (class 1259 OID 16512)
-- Name: syllabus; Type: TABLE; Schema: Session; Owner: postgres
--

```



```

CREATE TABLE "Session".syllabus (
    syllabus_id integer NOT NULL,
    direction_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 226 (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 232 (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 3748 (class 0 OID 16409)
-- Dependencies: 217
-- Data for Name: active student; Type: TABLE DATA; Schema: Session; Owner: postgres
--

COPY "Session"."active student" (student_id, education_year, "from", "to",
group_id, syllabus_id, education_program_id, record_book_id) FROM stdin;
5085 4 2023-10-22 2023-10-22 860 958 9681 39784
1101 5 2023-10-22 2023-10-22 807 571 293 2722
8425 3 2023-10-22 2023-10-22 768 214 5535 55816
2973 4 2023-10-22 2023-10-22 285 788 293 17671
5701 3 2023-10-22 2023-10-22 732 958 5946 25641
8202 1 2023-10-22 2023-10-22 807 424 7 25641
7936 1 2023-10-22 2023-10-22 649 791 7 46678
9078 1 2023-10-22 2023-10-22 176 958 6906 39784

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2059 4 2023-10-22 2023-10-22 982 788 5946 25641
7330 4 2023-10-22 2023-10-22 860 135 8282 39784
1795 1 2023-10-22 2023-10-22 228 701 9681 835
3283 2 2023-10-22 2023-10-22 136 958 773 47171
7606 3 2023-10-22 2023-10-22 228 214 3185 42590
3514 4 2023-10-22 2023-10-22 441 302 5040 26163
7470 5 2023-10-22 2023-10-22 982 791 746 42590
6890 1 2023-10-22 2023-10-22 228 622 293 63110
4027 2 2023-10-22 2023-10-22 747 571 3241 46678
1895 1 2023-10-22 2023-10-22 335 892 8282 37086
9105 5 2023-10-22 2023-10-22 443 892 3185 2722
8819 4 2023-10-22 2023-10-22 583 285 746 26163
\..

--
-- TOC entry 3758 (class 0 OID 16620)
-- Dependencies: 227
-- Data for Name: attestation pass; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

COPY "Session"."attestation pass" (personal_id, student_id, discipline_id,
educational_program_id, syllabus_id, date, mark, attempt) FROM stdin;
36577 7330 68 3145 135 2023-10-22 32 3
3758 8819 88 3241 107 2023-10-22 4 1
69730 8819 92 5040 135 2023-10-22 38 3
8201 9105 15 9662 168 2023-10-22 33 1
36577 7936 92 7 892 2023-10-22 32 3
1928 1101 22 5040 845 2023-10-22 12 2
72547 9105 40 5535 302 2023-10-22 30 1
75616 9105 68 773 201 2023-10-22 11 2
81097 8202 40 8282 54 2023-10-22 6 2
55944 9105 22 8282 214 2023-10-22 21 2
72090 7470 92 9662 285 2023-10-22 5 2
86439 1895 15 3145 107 2023-10-22 6 3
86439 1101 10 9761 958 2023-10-22 37 1
4146 8202 87 5535 201 2023-10-22 20 3
75616 9105 22 6906 791 2023-10-22 13 1
24436 4027 40 5631 214 2023-10-22 18 2
72090 6890 15 5535 62 2023-10-22 8 1
86439 9105 10 5535 502 2023-10-22 25 1
72090 1101 40 3145 201 2023-10-22 33 1
72090 5701 88 6044 201 2023-10-22 1 1
8201 1101 4 9761 958 2023-10-22 21 3
8201 1895 15 5040 788 2023-10-22 27 3
81097 3514 15 5946 928 2023-10-22 27 1
36577 2059 92 3185 302 2023-10-22 39 3
24436 9105 10 9662 302 2023-10-22 7 2
24436 5085 40 7 622 2023-10-22 18 2
2413 8819 87 5040 791 2023-10-22 3 2
7782 1895 92 6044 62 2023-10-22 5 3
36577 7606 10 6044 214 2023-10-22 13 1
36577 5701 88 746 788 2023-10-22 22 3
72090 5701 40 7 845 2023-10-22 13 1
8201 5701 40 8282 107 2023-10-22 24 3
85500 2973 22 3185 791 2023-10-22 36 1
45079 4027 40 5040 302 2023-10-22 17 3
72090 7470 87 6906 788 2023-10-22 25 2
86439 7936 22 293 845 2023-10-22 19 2
86439 7470 40 9662 958 2023-10-22 17 1
36577 2059 4 6044 214 2023-10-22 16 1
75616 8819 15 773 201 2023-10-22 16 2

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```

36577 7606 88 293 302 2023-10-22 20 3
24436 7330 22 6044 622 2023-10-22 35 2
45079 7470 30 9681 168 2023-10-22 11 1
4146 3514 15 6044 571 2023-10-22 27 3
24436 5701 87 293 424 2023-10-22 14 3
24436 8819 40 746 928 2023-10-22 2 1
1928 9105 10 9662 622 2023-10-22 23 2
27431 7936 40 5631 201 2023-10-22 1 3
2413 3514 87 8282 168 2023-10-22 35 2
24436 8425 10 5320 928 2023-10-22 6 2
72547 6890 30 3185 791 2023-10-22 13 1
69730 7330 22 5946 701 2023-10-22 11 1
27431 9078 92 5535 214 2023-10-22 30 3
4146 1795 30 3185 958 2023-10-22 9 2
4146 1795 88 5631 285 2023-10-22 27 1
7782 7936 87 1786 571 2023-10-22 14 2
86439 7330 4 773 701 2023-10-22 9 3
8201 9105 22 7 622 2023-10-22 37 3
24436 4027 92 3241 107 2023-10-22 39 3
73966 2973 4 293 788 2023-10-22 32 3
72547 9105 88 3241 892 2023-10-22 23 2
75616 7330 68 5535 285 2023-10-22 13 1
85500 8425 22 5946 201 2023-10-22 20 3
27431 2059 15 5040 424 2023-10-22 35 3
2413 8202 68 9681 54 2023-10-22 6 3
27431 2059 88 5535 424 2023-10-22 20 1
45079 7936 92 9761 892 2023-10-22 6 1
24436 3514 10 3145 958 2023-10-22 22 1
69730 4027 40 5320 571 2023-10-22 35 1
39413 5701 92 6044 791 2023-10-22 27 3
8201 5085 15 3145 168 2023-10-22 37 3
7782 9105 30 9761 502 2023-10-22 34 2
8201 3514 30 6906 214 2023-10-22 29 1
\..

--
-- TOC entry 3762 (class 0 OID 16712)
-- Dependencies: 231
-- Data for Name: classroom; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

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

```

```

2772    9599    9    129
1656    6287    6    21
\.
```

--

```

-- TOC entry 3759 (class 0 OID 16650)
-- Dependencies: 228
-- 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 3751 (class 0 OID 16487)
-- Dependencies: 220
-- 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 3755 (class 0 OID 16558)
-- Dependencies: 224
-- 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 3752 (class 0 OID 16493)
-- Dependencies: 221
-- 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 3756 (class 0 OID 16568)

```

```

-- Dependencies: 225
-- Data for Name: educational_program_discipline; Type: TABLE DATA; Schema:
Session; Owner: postgres
--

COPY "Session"."educational_program_discipline" (discipline_id, syllabus_id,
educational_program_id) FROM stdin;
68 928      3241
87 622      5946
30 622      7
15 302      5946
4 892       9662
88 958      7
10 788      3241
22 928      6906
40 845      9681
92 928      9761
\.

--
-- TOC entry 3754 (class 0 OID 16535)
-- Dependencies: 223
-- Data for Name: group; Type: TABLE DATA; Schema: Session; Owner: postgres
--

COPY "Session"."group" (group_id, syllabus_id, educational_program_id) FROM
stdin;
176      168      3145
768      168      773
126      62 5946
136      502      5320
259      135      8282
807      135      3241
860      788      746
732      107      746
747      285      3145
443      571      9662
285      958      7
583      892      293
649      135      746
382      54 5946
982      201      293
441      791      1786
265      892      746
228      928      8282
855      502      9662
335      845      7
\.

--
-- TOC entry 3760 (class 0 OID 16655)
-- Dependencies: 229
-- 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 3761 (class 0 OID 16668)
-- Dependencies: 230
-- Data for Name: schedule; Type: TABLE DATA; Schema: Session; Owner:
postgres
--

COPY "Session".schedule (platform_id, department_id, personal_id, group_id,
educational_program_id, syllabus_id, date, educational_program_discipline_id,
classroom id) FROM stdin;
6906 9510 55944 443 5040 302 2023-10-22 22 1305
6389 6287 1928 807 5946 701 2023-10-22 10 7238
6389 397 55944 136 5040 107 2023-10-22 92 6652
8177 9599 72090 768 746 285 2023-10-22 15 6652
9561 9510 55944 228 9681 168 2023-10-22 88 3235
8522 9510 1928 228 746 62 2023-10-22 15 8298
9561 397 69730 768 7 502 2023-10-22 40 1656
8522 397 1928 136 3145 54 2023-10-22 10 1311
8578 969 85500 176 1786 701 2023-10-22 15 2772
2294 9103 7782 768 3145 214 2023-10-22 4 8298
8578 6287 27431 265 3241 302 2023-10-22 92 1443
8442 1417 75616 768 7 958 2023-10-22 87 9294
8990 969 73966 443 5946 285 2023-10-22 15 2772
8990 8562 86439 649 3145 285 2023-10-22 68 1656
6389 969 8201 335 3145 791 2023-10-22 30 8298
8522 6520 86439 335 3241 62 2023-10-22 22 1656
8967 3354 7782 265 3185 958 2023-10-22 88 7047
2291 969 39413 228 6906 701 2023-10-22 4 1198
588 2759 24436 807 6906 791 2023-10-22 92 3235
8967 9205 1928 285 773 892 2023-10-22 4 6077
\.
```

```

--
-- TOC entry 3749 (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 3750 (class 0 OID 16474)
-- Dependencies: 219
-- Data for Name: scholarship appointment; Type: TABLE DATA; Schema: Session;
Owner: postgres
--

COPY "Session"."scholarship appointment" (student_id, scholarship_id, date)
FROM stdin;
4027 45 2023-10-22
3283 62 2023-10-22
2059 27 2023-10-22
5085 75 2023-10-22
3514 69 2023-10-22
7330 56 2023-10-22
2973 23 2023-10-22
6890 65 2023-10-22
9105 43 2023-10-22
8819 1 2023-10-22
7936 12 2023-10-22
2973 69 2023-10-22
8819 67 2023-10-22
3283 11 2023-10-22
7936 75 2023-10-22
7606 13 2023-10-22
8202 69 2023-10-22
2973 93 2023-10-22
9078 56 2023-10-22
1101 46 2023-10-22
\.
```

```

--
-- TOC entry 3747 (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 3753 (class 0 OID 16512)
-- Dependencies: 222
-- Data for Name: syllabus; Type: TABLE DATA; Schema: Session; Owner: postgres
--

COPY "Session".syllabus (syllabus_id, direction_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 3757 (class 0 OID 16588)
-- Dependencies: 226
-- 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 3763 (class 0 OID 16731)
-- Dependencies: 232
-- 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 3533 (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 3523 (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 3524 (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 3565 (class 2606 OID 16624)
-- 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 (personal_id,
student_id, discipline_id, educational_program_id, syllabus_id);

--
-- TOC entry 3573 (class 2606 OID 16718)
-- Name: classroom classroom_pkey; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

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

--
-- TOC entry 3575 (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 3567 (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 3543 (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 3557 (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 3559 (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 3518 (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 3511 (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 3513 (class 2606 OID 16427)
-- Name: active student education_year_chk1; Type: CHECK CONSTRAINT; Schema:
-- Session; Owner: postgres
--

ALTER TABLE "Session"."active student"
    ADD CONSTRAINT education_year_chk1 CHECK ((education_year <= 5)) NOT
VALID;

--
-- TOC entry 3514 (class 2606 OID 16428)
-- Name: active student education_year_chk2; Type: CHECK CONSTRAINT; Schema:
-- Session; Owner: postgres
--

ALTER TABLE "Session"."active student"
    ADD CONSTRAINT education_year_chk2 CHECK ((education_year >= 1)) NOT

```

```

VALID;

--
-- TOC entry 3561 (class 2606 OID 16572)
-- 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
    (discipline_id, syllabus_id, educational_program_id);

--
-- TOC entry 3545 (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 3547 (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 3553 (class 2606 OID 16539)
-- Name: group group_pkey; Type: CONSTRAINT; Schema: Session; Owner: postgres
--

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

--
-- TOC entry 3555 (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 3525 (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 3563 (class 2606 OID 16592)
-- Name: teacher personal_uid; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

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

--
-- TOC entry 3569 (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 3529 (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 3571 (class 2606 OID 16691)
-- Name: schedule schedule_pkey; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".schedule
    ADD CONSTRAINT schedule_pkey PRIMARY KEY (platform_id, department_id,
personal_id, group_id, educational_program_id, syllabus_id,
educational_program_discipline_id);

--
-- TOC entry 3541 (class 2606 OID 16527)
-- Name: scholarship appointment scholarship appointment_pkey; Type:
CONSTRAINT; Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."scholarship appointment"
    ADD CONSTRAINT "scholarship appointment_pkey" PRIMARY KEY (student_id,
scholarship_id);

--
-- TOC entry 3537 (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 3515 (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 3539 (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 3512 (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 3531 (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 3535 (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 3517 (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 3549 (class 2606 OID 16520)
-- Name: syllabus syllabus_pkey; Type: CONSTRAINT; Schema: Session; Owner:
postgres
--

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

--
-- TOC entry 3551 (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 3603 (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 3594 (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 3595 (class 2606 OID 16678)
-- Name: schedule department_id; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres
--

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

--
-- TOC entry 3602 (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 3581 (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 3582 (class 2606 OID 16521)
-- Name: syllabus direction_id; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres
--

ALTER TABLE ONLY "Session".syllabus
    ADD CONSTRAINT direction_id FOREIGN KEY (direction_id) REFERENCES
"Session".direction(direction_id);

--
-- TOC entry 3585 (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 3588 (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 3576 (class 2606 OID 16742)
-- Name: active student education_program_pkey; Type: FK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."active student"
    ADD CONSTRAINT education_program_pkey FOREIGN KEY (education_program_id)
REFERENCES "Session"."educational program"(educational_program_id) NOT VALID;

--
-- TOC entry 3596 (class 2606 OID 16707)
-- Name: schedule educational_program_discipline_id; Type: FK CONSTRAINT;
Schema: Session; Owner: postgres
--

ALTER TABLE ONLY "Session".schedule

```

```

        ADD CONSTRAINT educational_program_discipline_id FOREIGN KEY
(educational_program_discipline_id) REFERENCES "Session"."educational program
discipline"(discipline_id) NOT VALID;

--
-- TOC entry 3583 (class 2606 OID 16547)
-- Name: group educational_program_id; Type: FK CONSTRAINT; Schema: Session;
Owner: postgres
--

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

--
-- TOC entry 3586 (class 2606 OID 16583)
-- Name: educational program discipline educational_program_id; Type: FK
CONSTRAINT; Schema: Session; Owner: postgres
--

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

--
-- TOC entry 3589 (class 2606 OID 16640)
-- Name: attestation pass educational_program_id; Type: FK CONSTRAINT;
Schema: Session; Owner: postgres
--

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

--
-- TOC entry 3597 (class 2606 OID 16702)
-- Name: schedule educational_program_id; Type: FK CONSTRAINT; Schema:
Session; Owner: postgres
--

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

--
-- TOC entry 3598 (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 3590 (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 3599 (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 3593 (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 3600 (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 3577 (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 3579 (class 2606 OID 16482)
-- Name: scholarship appointment scholarship_id; Type: FK CONSTRAINT; Schema:
Session; Owner: postgres
--

ALTER TABLE ONLY "Session"."scholarship appointment"

```

```

        ADD CONSTRAINT scholarship_id FOREIGN KEY (scholarship_id) REFERENCES
"Session".scholarship(scholarship_id);

--
-- TOC entry 3580 (class 2606 OID 16477)
-- Name: scholarship appointment student_id; Type: FK CONSTRAINT; Schema:
Session; Owner: postgres
--

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

--
-- TOC entry 3591 (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 3584 (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 3587 (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);

--
-- TOC entry 3592 (class 2606 OID 16635)
-- Name: attestation pass syllabus_id; Type: FK CONSTRAINT; Schema: Session;
Owner: postgres
--

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

--
-- TOC entry 3601 (class 2606 OID 16697)
-- Name: schedule syllabus_id; Type: FK CONSTRAINT; Schema: Session; Owner:
postgres

```

```
--
ALTER TABLE ONLY "Session".schedule
    ADD CONSTRAINT syllabus_id FOREIGN KEY (syllabus_id) REFERENCES
"Session".syllabus(syllabus_id) NOT VALID;

--
-- TOC entry 3578 (class 2606 OID 16737)
-- Name: active student syllabus_pkey; Type: FK CONSTRAINT; Schema: Session;
Owner: postgres
--

ALTER TABLE ONLY "Session"."active student"
    ADD CONSTRAINT syllabus_pkey FOREIGN KEY (syllabus_id) REFERENCES
"Session".syllabus(syllabus_id) NOT VALID;

-- Completed on 2023-10-22 17:42:22 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.