**Министерство науки и высшего образования Российской Федерации**

федеральное государственное автономное образовательное учреждение высшего образования

**«НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО»**

**Отчет**

по лабораторной работе №3 «Создание таблиц базы данных PostgreSQL. Заполнение таблиц рабочими данными**»**

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

Автор: Гусейнова М. Э.

Факультет: ИКТ

Группа: К3239

Преподаватель: Говорова М.М.



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# Цель работы

Овладеть практическими навыками создания таблиц базы данных PostgreSQL 1Х, 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.

1. Восстановить БД.

# Выполнение

**Вариант 2. БД «Сессия»**

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

Изображение выглядит как снимок экрана, диаграмма, План, текст

Автоматически созданное описание

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,  
 date1 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  
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  
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# Вывод

В ходе лабораторной работы я научилась создавать, заполнять, восстанавливать и сохранять баз данных PostgresSQL 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.