Министерство науки и высшего образования Российской Федерации Федеральное государственное автономное образовательное учреждение высшего образования «НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО» Факультет инфокоммуникационных технологий

ОТЧЕТ ПО ЛАБОРАТОРНОЙ РАБОТЕ № 1

по теме: Создание таблиц базы данных postgresql. Заполнение таблиц рабочими данными.

по дисциплине: Проектирование и реализация баз данных

Специальность: 09.03.03 Мобильные и сетевые технологии	
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Проверил:	Выполнил:
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Дата: « <u>»</u> 20г.	Бабан Виктория
Оценка	

ЦЕЛЬ РАБОТЫ

Овладеть практическими навыками создания таблиц базы данных PostgreSQL 1X, заполнения их рабочими данными, резервного копирования и восстановления БД.

ПРАКТИЧЕСКОЕ ЗАДАНИЕ

Оборудование: компьютерный класс.

Программное обеспечение: СУБД PostgreSQL 1X, pgAdmin 4.

Практическое задание:

- 1. Создать базу данных с использованием pgAdmin 4 (согласно индивидуальному заданию).
- 2. Создать схему в составе базы данных.
- 3. Создать таблицы базы данных.
- 4. Установить ограничения на данные: *Primary Key, Unique, Check, Foreign Key*.
- 5. Заполнить таблицы БД рабочими данными.
- 6. Создать резервную копию БД.

Указание:

Создать две резервные копии:

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

Вариант 2. БД «Сессия»

Описание предметной области: БД содержит сведения о сдаче сессии студентами. Номер зачетной книжки однозначно идентифицирует студента.

БД должна содержать следующий минимальный набор сведений: Номер зачетной книжки. Фамилия студента. Имя студента. Отчество студента. Курс. Группа. Учебный год. Семестр. Код дисциплины/практики. Название дисциплины/практики. Код направления. Название направления. Оценка. Фамилия преподавателя. Имя преподавателя. Отчество преподавателя. Должность. Код подразделения. Подразделение. Дата сдачи экзамена/зачета/дифзачета. Аудитория. Площадка (адрес). Номер попытки (максимально 3).

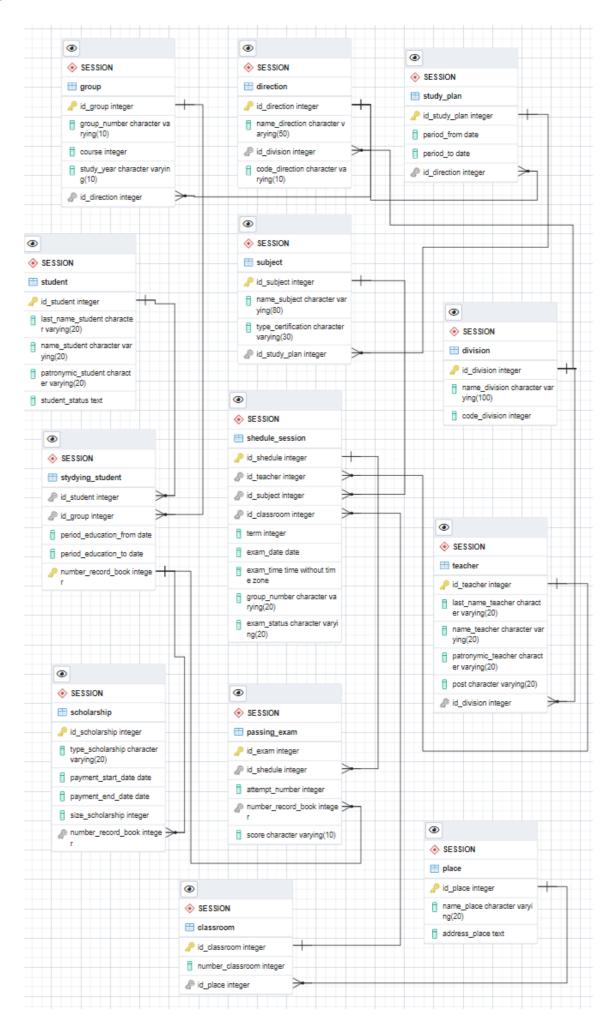
Дополните исходные данные информацией: по расписанию сессии, по назначению базовой и повышенной стипендии.

ХОД РАБОТЫ

1) Наименование БД:

Session

2) Схема логической модели:



```
3) Dump, содержащий скрипты работы с БД.
-- PostgreSQL database dump
-- Dumped from database version 13.6
-- Dumped by pg_dump version 13.6
-- Started on 2022-03-30 21:47:06
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;
                                Создание базы данных
CREATE DATABASE "Session" WITH TEMPLATE = template0 ENCODING = 'UTF8'
LOCALE = 'Russian_Russia.1251';
ALTER DATABASE "Session" OWNER TO postgres;
\connect "Session"
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 5 (class 2615 OID 16897)
-- Name: SESSION; Type: SCHEMA; Schema: -; Owner: postgres
```

Создание схемы

```
CREATE SCHEMA "SESSION":
ALTER SCHEMA "SESSION" OWNER TO postgres;
SET default_tablespace = ";
SET default_table_access_method = heap;
                          Создание таблицы Classroom
-- TOC entry 203 (class 1259 OID 17004)
-- Name: classroom; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".classroom (
  id_classroom integer NOT NULL,
  number classroom integer NOT NULL,
  id_place integer NOT NULL
);
ALTER TABLE "SESSION".classroom OWNER TO postgres;
-- TOC entry 202 (class 1259 OID 17002)
-- Name: classroom_id_classroom_seq; Type: SEQUENCE; Schema: SESSION; Owner:
postgres
CREATE SEQUENCE "SESSION".classroom_id_classroom_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1:
ALTER TABLE "SESSION".classroom_id_classroom_seq OWNER TO postgres;
-- TOC entry 3150 (class 0 OID 0)
-- Dependencies: 202
-- Name: classroom_id_classroom_seq; Type: SEQUENCE OWNED BY; Schema:
SESSION; Owner: postgres
ALTER SEQUENCE "SESSION".classroom_id_classroom_seq OWNED BY
"SESSION".classroom.id classroom;
```

Создание таблицы Direction

```
-- TOC entry 209 (class 1259 OID 17068)
-- Name: direction; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".direction (
  id_direction integer NOT NULL,
  name_direction character varying(50),
  id_division integer NOT NULL,
  code_direction character varying(10) NOT NULL
);
ALTER TABLE "SESSION".direction OWNER TO postgres;
-- TOC entry 208 (class 1259 OID 17066)
-- Name: direction_id_direction_seq; Type: SEQUENCE; Schema: SESSION; Owner:
postgres
CREATE SEQUENCE "SESSION".direction_id_direction_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;
ALTER TABLE "SESSION".direction_id_direction_seq OWNER TO postgres;
-- TOC entry 3151 (class 0 OID 0)
-- Dependencies: 208
-- Name: direction_id_direction_seq; Type: SEQUENCE OWNED BY; Schema: SESSION;
Owner: postgres
ALTER SEQUENCE "SESSION".direction_id_direction_seq OWNED BY
"SESSION".direction.id_direction;
                            Создание таблицы Division
```

-- TOC entry 207 (class 1259 OID 17060)

-- Name: division; Type: TABLE; Schema: SESSION; Owner: postgres

```
CREATE TABLE "SESSION".division (
  id_division integer NOT NULL,
  name_division character varying(100),
  code_division integer NOT NULL
);
ALTER TABLE "SESSION".division OWNER TO postgres;
-- TOC entry 206 (class 1259 OID 17058)
-- Name: division_id_division_seq; Type: SEQUENCE; Schema: SESSION; Owner: postgres
CREATE SEQUENCE "SESSION".division_id_division_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;
ALTER TABLE "SESSION".division_id_division_seq OWNER TO postgres;
-- TOC entry 3152 (class 0 OID 0)
-- Dependencies: 206
-- Name: division_id_division_seq; Type: SEQUENCE OWNED BY; Schema: SESSION;
Owner: postgres
ALTER SEQUENCE "SESSION".division_id_division_seq OWNED BY
"SESSION".division.id_division;
                             Создание таблицы group
-- TOC entry 211 (class 1259 OID 17081)
-- Name: group; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION"."group" (
  id_group integer NOT NULL,
  group_number character varying(10) NOT NULL,
  course integer,
```

study_year character varying(10),

```
id_direction integer NOT NULL
);
ALTER TABLE "SESSION"."group" OWNER TO postgres;
-- TOC entry 210 (class 1259 OID 17079)
-- Name: group_id_group_seq; Type: SEQUENCE; Schema: SESSION; Owner: postgres
CREATE SEQUENCE "SESSION".group_id_group_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;
ALTER TABLE "SESSION".group_id_group_seq OWNER TO postgres;
-- TOC entry 3153 (class 0 OID 0)
-- Dependencies: 210
-- Name: group_id_group_seq; Type: SEQUENCE OWNED BY; Schema: SESSION;
Owner: postgres
ALTER SEQUENCE "SESSION".group_id_group_seq OWNED BY
"SESSION"."group".id_group;
         Создание таблицы passing_exam. Проверка числа попыток и оценки
-- TOC entry 225 (class 1259 OID 17197)
-- Name: passing_exam; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".passing_exam (
  id_exam integer NOT NULL,
  id shedule integer NOT NULL,
  attempt_number integer NOT NULL,
  number_record_book integer NOT NULL,
  score character varying(10) NOT NULL,
  CONSTRAINT attempt_number CHECK (((attempt_number >= 1) AND (attempt_number
<= 3))),
  CONSTRAINT score CHECK (((score)::text = ANY (ARRAY[('2'::character
varying)::text, ('3'::character varying)::text, ('4'::character varying)::text, ('5'::character
```

```
varying)::text, ('Зачёт'::character varying)::text, ('Heзачёт'::character varying)::text])))
);
ALTER TABLE "SESSION".passing_exam OWNER TO postgres;
-- TOC entry 224 (class 1259 OID 17195)
-- Name: passing_exam_id_exam_seq; Type: SEQUENCE; Schema: SESSION; Owner:
postgres
CREATE SEQUENCE "SESSION".passing_exam_id_exam_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;
ALTER TABLE "SESSION".passing_exam_id_exam_seq OWNER TO postgres;
-- TOC entry 3154 (class 0 OID 0)
-- Dependencies: 224
-- Name: passing_exam_id_exam_seq; Type: SEQUENCE OWNED BY; Schema:
SESSION; Owner: postgres
ALTER SEQUENCE "SESSION".passing_exam_id_exam_seq OWNED BY
"SESSION".passing_exam.id_exam;
                             Создание таблицы place
-- TOC entry 201 (class 1259 OID 16993)
-- Name: place; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".place (
  id_place integer NOT NULL,
  name_place character varying(20),
  address_place text NOT NULL
);
ALTER TABLE "SESSION".place OWNER TO postgres;
```

```
-- TOC entry 200 (class 1259 OID 16991)
-- Name: place_id_place_seq; Type: SEQUENCE; Schema: SESSION; Owner: postgres
CREATE SEQUENCE "SESSION".place_id_place_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;
ALTER TABLE "SESSION".place_id_place_seq OWNER TO postgres;
-- TOC entry 3155 (class 0 OID 0)
-- Dependencies: 200
-- Name: place_id_place_seq; Type: SEQUENCE OWNED BY; Schema: SESSION; Owner:
postgres
ALTER SEQUENCE "SESSION".place_id_place_seq OWNED BY
"SESSION".place.id_place;
            Создание таблицы scholarship. Проверка даты, размера и типа
-- TOC entry 215 (class 1259 OID 17115)
-- Name: scholarship; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".scholarship (
  id_scholarship integer NOT NULL,
  type_scholarship character varying(20) NOT NULL,
  payment_start_date date NOT NULL,
  payment_end_date date NOT NULL,
  size_scholarship integer NOT NULL,
  number_record_book integer NOT NULL,
  CONSTRAINT check_date_pay CHECK ((payment_end_date >= payment_start_date)),
  CONSTRAINT check_size CHECK ((size_scholarship >= 0)),
  CONSTRAINT type CHECK (((type_scholarship)::text = ANY
(ARRAY[('Базовая'::character varying)::text, ('Повышенная'::character varying)::text,
('Социальная'::character varying)::text])))
);
```

```
-- TOC entry 214 (class 1259 OID 17113)
-- Name: scholarship_id_scholarship_seq; Type: SEQUENCE; Schema: SESSION; Owner:
postgres
CREATE SEQUENCE "SESSION".scholarship_id_scholarship_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1;
ALTER TABLE "SESSION".scholarship_id_scholarship_seq OWNER TO postgres;
-- TOC entry 3156 (class 0 OID 0)
-- Dependencies: 214
-- Name: scholarship_id_scholarship_seq; Type: SEQUENCE OWNED BY; Schema:
SESSION; Owner: postgres
ALTER SEQUENCE "SESSION".scholarship_id_scholarship_seq OWNED BY
"SESSION".scholarship.id_scholarship;
           Создание таблицы schedule_session. Проверка статуса экзамена
-- TOC entry 223 (class 1259 OID 17173)
-- Name: shedule_session; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".shedule_session (
  id_shedule integer NOT NULL,
  id_teacher integer NOT NULL,
  id_subject integer NOT NULL,
  id_classroom integer NOT NULL,
  term integer NOT NULL,
  exam date date NOT NULL,
  exam time time without time zone NOT NULL,
  group_number character varying(20) NOT NULL,
  exam_status character varying(20) NOT NULL,
  CONSTRAINT status CHECK (((exam_status)::text = ANY
(ARRAY[('Запланирован'::character varying)::text, ('Проводится'::character varying)::text,
('Проведен'::character varying)::text, ('Отменен'::character varying)::text])))
);
```

```
ALTER TABLE "SESSION".shedule_session OWNER TO postgres;
-- TOC entry 222 (class 1259 OID 17171)
-- Name: shedule_session_id_shedule_seq; Type: SEQUENCE; Schema: SESSION; Owner:
postgres
CREATE SEQUENCE "SESSION".shedule_session_id_shedule_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1:
ALTER TABLE "SESSION".shedule_session_id_shedule_seq OWNER TO postgres;
-- TOC entry 3157 (class 0 OID 0)
-- Dependencies: 222
-- Name: shedule_session_id_shedule_seq; Type: SEQUENCE OWNED BY; Schema:
SESSION; Owner: postgres
ALTER SEQUENCE "SESSION".shedule_session_id_shedule_seq OWNED BY
"SESSION".shedule_session.id_shedule;
                Создание таблицы student. Проверка статуса студента
-- TOC entry 205 (class 1259 OID 17018)
-- Name: student; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".student (
  id_student integer NOT NULL,
  last_name_student character varying(20) NOT NULL,
  name_student character varying(20) NOT NULL,
  patronymic student character varying(20),
  student_status text NOT NULL,
  CONSTRAINT status CHECK ((student_status = ANY (ARRAY['Обучается'::text,
'Отчислен'::text, 'В академ. отпуске'::text])))
);
```

ALTER TABLE "SESSION".student OWNER TO postgres;

```
-- TOC entry 204 (class 1259 OID 17016)
-- Name: student_id_student_seq; Type: SEQUENCE; Schema: SESSION; Owner: postgres
CREATE SEQUENCE "SESSION".student_id_student_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1:
ALTER TABLE "SESSION".student_id_student_seq OWNER TO postgres;
-- TOC entry 3158 (class 0 OID 0)
-- Dependencies: 204
-- Name: student_id_student_seq; Type: SEQUENCE OWNED BY; Schema: SESSION;
Owner: postgres
ALTER SEQUENCE "SESSION".student_id_student_seq OWNED BY
"SESSION".student.id_student;
                    Создание таблицы study_plan. Проверка дат
-- TOC entry 217 (class 1259 OID 17132)
-- Name: study_plan; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".study_plan (
  id_study_plan integer NOT NULL,
  period_from date NOT NULL,
  period_to date NOT NULL,
  id_direction integer NOT NULL,
  CONSTRAINT check_date_plan CHECK ((period_to >= period_from))
);
ALTER TABLE "SESSION".study_plan OWNER TO postgres;
-- TOC entry 216 (class 1259 OID 17130)
-- Name: study_plan_id_study_plan_seq; Type: SEQUENCE; Schema: SESSION; Owner:
```

postgres

```
CREATE SEQUENCE "SESSION".study_plan_id_study_plan_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1:
ALTER TABLE "SESSION".study_plan_id_study_plan_seq OWNER TO postgres;
-- TOC entry 3159 (class 0 OID 0)
-- Dependencies: 216
-- Name: study_plan_id_study_plan_seq; Type: SEQUENCE OWNED BY; Schema:
SESSION; Owner: postgres
ALTER SEQUENCE "SESSION".study_plan_id_study_plan_seq OWNED BY
"SESSION".study_plan.id_study_plan;
                 Создание таблицы stydying_student. Проверка дат
-- TOC entry 213 (class 1259 OID 17094)
-- Name: stydying_student; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".stydying_student (
  id_student integer NOT NULL,
  id_group integer NOT NULL,
  period_education_from date NOT NULL,
  period_education_to date NOT NULL,
  number_record_book integer NOT NULL,
  CONSTRAINT check_date CHECK ((period_education_to >= period_education_from))
);
ALTER TABLE "SESSION".stydying_student OWNER TO postgres;
-- TOC entry 212 (class 1259 OID 17092)
-- Name: stydying_student_id_student_seq; Type: SEQUENCE; Schema: SESSION; Owner:
postgres
```

CREATE SEQUENCE "SESSION".stydying_student_id_student_seq

```
START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
  CACHE 1:
ALTER TABLE "SESSION".stydying_student_id_student_seq OWNER TO postgres;
-- TOC entry 3160 (class 0 OID 0)
-- Dependencies: 212
-- Name: stydying_student_id_student_seq; Type: SEQUENCE OWNED BY; Schema:
SESSION; Owner: postgres
ALTER SEQUENCE "SESSION".stydying_student_id_student_seq OWNED BY
"SESSION".stydying_student.id_student;
                Создание таблицы subject. Проверка вида аттестации
-- TOC entry 219 (class 1259 OID 17146)
-- Name: subject; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".subject (
  id_subject integer NOT NULL,
  name_subject character varying(80) NOT NULL,
  type_certification character varying(30) NOT NULL,
  id_study_plan integer NOT NULL,
  CONSTRAINT type CHECK (((type_certification)::text = ANY
(ARRAY[('Экзамен'::character varying)::text, ('Зачёт'::character varying)::text,
('Дифференцированный зачёт'::character varying)::text, ('Курсовая работа'::character
varying)::text])))
);
ALTER TABLE "SESSION".subject OWNER TO postgres;
-- TOC entry 218 (class 1259 OID 17144)
-- Name: subject_id_subject_seq; Type: SEQUENCE; Schema: SESSION; Owner: postgres
CREATE SEQUENCE "SESSION".subject_id_subject_seq
  AS integer
```

AS integer

START WITH 1

```
INCREMENT BY 1
  NO MINVALUE
 NO MAXVALUE
  CACHE 1;
ALTER TABLE "SESSION".subject_id_subject_seq OWNER TO postgres;
-- TOC entry 3161 (class 0 OID 0)
-- Dependencies: 218
-- Name: subject_id_subject_seq; Type: SEQUENCE OWNED BY; Schema: SESSION;
Owner: postgres
ALTER SEQUENCE "SESSION".subject_id_subject_seq OWNED BY
"SESSION".subject.id_subject;
                            Создание таблицы teacher
-- TOC entry 221 (class 1259 OID 17160)
-- Name: teacher; Type: TABLE; Schema: SESSION; Owner: postgres
CREATE TABLE "SESSION".teacher (
  id_teacher integer NOT NULL,
 last_name_teacher character varying(20) NOT NULL,
  name_teacher character varying(20) NOT NULL,
  patronymic_teacher character varying(20),
 post character varying(20) NOT NULL,
  id division integer NOT NULL
);
ALTER TABLE "SESSION".teacher OWNER TO postgres;
-- TOC entry 220 (class 1259 OID 17158)
-- Name: teacher_id_teacher_seq; Type: SEQUENCE; Schema: SESSION; Owner: postgres
CREATE SEQUENCE "SESSION".teacher_id_teacher_seq
  AS integer
  START WITH 1
  INCREMENT BY 1
  NO MINVALUE
  NO MAXVALUE
```

CACHE 1;

ALTER TABLE "SESSION".teacher_id_teacher_seq OWNER TO postgres; -- TOC entry 3162 (class 0 OID 0) -- Dependencies: 220 -- Name: teacher_id_teacher_seq; Type: SEQUENCE OWNED BY; Schema: SESSION; Owner: postgres ALTER SEQUENCE "SESSION".teacher_id_teacher_seq OWNED BY "SESSION".teacher.id_teacher; Автоматические счётчики в качестве id -- TOC entry 2925 (class 2604 OID 17007) -- Name: classroom id_classroom; Type: DEFAULT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".classroom ALTER COLUMN id_classroom SET DEFAULT nextval("'SESSION".classroom_id_classroom_seq'::regclass); -- TOC entry 2929 (class 2604 OID 17071) -- Name: direction id_direction; Type: DEFAULT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".direction ALTER COLUMN id_direction SET DEFAULT nextval(""SESSION".direction_id_direction_seq'::regclass); -- TOC entry 2928 (class 2604 OID 17063) -- Name: division id_division; Type: DEFAULT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".division ALTER COLUMN id_division SET DEFAULT nextval("SESSION".division_id_division_seq'::regclass); -- TOC entry 2930 (class 2604 OID 17084) -- Name: group id_group; Type: DEFAULT; Schema: SESSION; Owner: postgres

ALTER TABLE ONLY "SESSION"."group" ALTER COLUMN id_group SET DEFAULT

nextval("'SESSION".group_id_group_seq'::regclass); -- TOC entry 2942 (class 2604 OID 17200) -- Name: passing_exam id_exam; Type: DEFAULT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".passing_exam ALTER COLUMN id_exam SET DEFAULT nextval("SESSION".passing_exam_id_exam_seq'::regclass); -- TOC entry 2924 (class 2604 OID 16996) -- Name: place id_place; Type: DEFAULT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".place ALTER COLUMN id_place SET DEFAULT nextval("SESSION".place_id_place_seq'::regclass); -- TOC entry 2932 (class 2604 OID 17118) -- Name: scholarship id_scholarship; Type: DEFAULT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".scholarship ALTER COLUMN id_scholarship SET DEFAULT nextval(""SESSION".scholarship_id_scholarship_seq'::regclass); -- TOC entry 2940 (class 2604 OID 17176) -- Name: shedule_session id_shedule; Type: DEFAULT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".shedule_session ALTER COLUMN id_shedule SET DEFAULT nextval(""SESSION".shedule_session_id_shedule_seq'::regclass); -- TOC entry 2926 (class 2604 OID 17021) -- Name: student id_student; Type: DEFAULT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".student ALTER COLUMN id_student SET DEFAULT

nextval("SESSION".student_id_student_seq'::regclass);

--

- -- TOC entry 2937 (class 2604 OID 17149)
- -- Name: subject id_subject; Type: DEFAULT; Schema: SESSION; Owner: postgres

ALTER TABLE ONLY "SESSION".subject ALTER COLUMN id_subject SET DEFAULT nextval("SESSION".subject_id_subject_seq'::regclass);

--

- -- TOC entry 2939 (class 2604 OID 17163)
- -- Name: teacher id_teacher; Type: DEFAULT; Schema: SESSION; Owner: postgres

ALTER TABLE ONLY "SESSION".teacher ALTER COLUMN id_teacher SET DEFAULT nextval(""SESSION".teacher_id_teacher_seq'::regclass);

Заполнение данными таблицы classroom

--

- -- TOC entry 3121 (class 0 OID 17004)
- -- Dependencies: 203
- -- Data for Name: classroom; Type: TABLE DATA; Schema: SESSION; Owner: postgres

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (1, 353, 3);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (2, 203, 3);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (3, 355, 3);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (4, 3408, 2);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (5, 1122, 2);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (6, 3302, 2);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (7, 203, 3);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (8, 103, 3);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (9, 2407, 1);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (10, 2326, 1);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (11, 350, 3);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place)

VALUES (12, 3418, 2);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (13, 1212, 2);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (14, 3225, 2);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (15, 543, 3);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (16, 2408, 1);

INSERT INTO "SESSION".classroom (id_classroom, number_classroom, id_place) VALUES (17, 2325, 1);

Заполнение данными таблицы direction

--

- -- TOC entry 3127 (class 0 OID 17068)
- -- Dependencies: 209
- -- Data for Name: direction; Type: TABLE DATA; Schema: SESSION; Owner: postgres

INSERT INTO "SESSION".direction (id_direction, name_direction, id_division, code_direction) VALUES (1, 'Интеллектуальные системы в гуманитарной сфере', 3, '45.03.04');

INSERT INTO "SESSION".direction (id_direction, name_direction, id_division, code_direction) VALUES (2, 'Инфокоммуникационные технологии и системы связи', 3, '11.03.02');

INSERT INTO "SESSION".direction (id_direction, name_direction, id_division, code_direction) VALUES (3, 'Прикладная информатика', 3, '09.03.03'); INSERT INTO "SESSION".direction (id_direction, name_direction, id_division, code_direction) VALUES (4, 'Информационная безопасность', 5, '10.03.01'); INSERT INTO "SESSION".direction (id_direction, name_direction, id_division, code_direction) VALUES (5, 'Конструирование и технология электронных средств', 5, '11.03.03');

Заполнение данными таблицы division

--

- -- TOC entry 3125 (class 0 OID 17060)
- -- Dependencies: 207
- -- Data for Name: division; Type: TABLE DATA; Schema: SESSION; Owner: postgres

INSERT INTO "SESSION".division (id_division, name_division, code_division) VALUES (1, 'мегафакультет трансляционных информационных технологий', 767);

INSERT INTO "SESSION".division (id_division, name_division, code_division) VALUES (2, 'факультет информационных технологий и программирования', 717);

INSERT INTO "SESSION".division (id_division, name_division, code_division) VALUES (3, 'факультет инфокоммуникационных технологий', 725);

INSERT INTO "SESSION".division (id_division, name_division, code_division) VALUES (4, 'мегафакультет компьютерных технологий и управления', 773);

INSERT INTO "SESSION".division (id_division, name_division, code_division) VALUES (5, 'факультет безопасности информационных технологий', 763);

INSERT INTO "SESSION".division (id_division, name_division, code_division) VALUES (6, 'физико-технический мегафакультет', 766);

INSERT INTO "SESSION".division (id_division, name_division, code_division) VALUES (7, 'мегафакультет биотехнологий и низкотемпературных систем', 770);

INSERT INTO "SESSION".division (id_division, name_division, code_division) VALUES (8, 'факультет систем управления и робототехники', 761);

Заполнение данными таблицы group

--

- -- TOC entry 3129 (class 0 OID 17081)
- -- Dependencies: 211
- -- Data for Name: group; Type: TABLE DATA; Schema: SESSION; Owner: postgres

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INSERT INTO "SESSION"."group" (id_group, group_number, course, study_year, id_direction) VALUES (1, 'K3240', 2, '2021/2022', 3);

INSERT INTO "SESSION"."group" (id_group, group_number, course, study_year, id_direction) VALUES (2, 'K3140', 1, '2021/2022', 3);

INSERT INTO "SESSION"."group" (id_group, group_number, course, study_year, id_direction) VALUES (3, 'N33481', 4, '2021/2022', 3);

INSERT INTO "SESSION"."group" (id_group, group_number, course, study_year, id_direction) VALUES (4, 'K3442', 4, '2020/2021', 1);

INSERT INTO "SESSION"."group" (id_group, group_number, course, study_year, id_direction) VALUES (7, 'K3143', 1, '2021/2022', 1);

INSERT INTO "SESSION"."group" (id_group, group_number, course, study_year, id_direction) VALUES (6, 'K3121', 1, '2021/2022', 2);

INSERT INTO "SESSION"."group" (id_group, group_number, course, study_year, id_direction) VALUES (5, 'K3220', 2, '2021/2022', 2);

Заполнение данными таблицы passing_exam

--

- -- TOC entry 3143 (class 0 OID 17197)
- -- Dependencies: 225
- -- Data for Name: passing_exam; Type: TABLE DATA; Schema: SESSION; Owner: postgres

--

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (1, 1, 1, 312310, 'Зачёт');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (2, 1, 1, 312407, 'Зачёт');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (3, 4, 1, 336100, 'Зачёт');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (4, 10, 1, 336100, '2');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (5, 10, 2, 336100, '4');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (6, 9, 1, 312310, '5');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (7, 9, 1, 312407, '5');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (8, 7, 1, 283128, '4');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (9, 8, 1, 283128, '3');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (10, 7, 1, 283129, '2');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (11, 7, 2, 283129, '2');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (12, 7, 3, 283129, '4');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (13, 8, 1, 283129, '3');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (14, 7, 1, 283991, '5');

INSERT INTO "SESSION".passing_exam (id_exam, id_shedule, attempt_number, number_record_book, score) VALUES (15, 8, 1, 283991, '5');

Заполнение данными таблицы place

-- TOC entry 3119 (class 0 OID 16993)

-- Dependencies: 201

-- Data for Name: place; Type: TABLE DATA; Schema: SESSION; Owner: postgres

INSERT INTO "SESSION".place (id_place, name_place, address_place) VALUES (1, 'Кронверкский', 'г. Санкт-Петербург, Кронверкский прспект, 49');

INSERT INTO "SESSION".place (id_place, name_place, address_place) VALUES (2, 'Ломоносова', 'г. Санкт-Петербург, ул. Ломоносова, 9');

INSERT INTO "SESSION".place (id_place, name_place, address_place) VALUES (3, 'Биржа', 'г. Санкт-Петербург, Биржевая линия, 14-16');

Заполнение данными таблицы scholarship

-- TOC entry 3133 (class 0 OID 17115)

-- Dependencies: 215

-- Data for Name: scholarship; Type: TABLE DATA; Schema: SESSION; Owner: postgres

INSERT INTO "SESSION".scholarship (id_scholarship, type_scholarship, payment_start_date, payment_end_date, size_scholarship, number_record_book) VALUES (1, 'Повышенная', '2022-02-01', '2022-06-30', 4100, 312310);

INSERT INTO "SESSION".scholarship (id scholarship, type scholarship,

payment_start_date, payment_end_date, size_scholarship, number_record_book) VALUES (2, 'Базовая', '2021-07-01', '2022-01-31', 2000, 312310);

INSERT INTO "SESSION".scholarship (id_scholarship, type_scholarship,

payment_start_date, payment_end_date, size_scholarship, number_record_book) VALUES (3, 'Повышенная', '2022-02-01', '2022-06-30', 6000, 283128);

INSERT INTO "SESSION".scholarship (id_scholarship, type_scholarship,

payment_start_date, payment_end_date, size_scholarship, number_record_book) VALUES (4, 'Повышенная', '2021-07-01', '2022-01-31', 10000, 336100);

INSERT INTO "SESSION".scholarship (id_scholarship, type_scholarship,

payment_start_date, payment_end_date, size_scholarship, number_record_book) VALUES (5, 'Базовая', '2022-02-01', '2022-06-30', 2000, 336100);

INSERT INTO "SESSION".scholarship (id_scholarship, type_scholarship,

payment_start_date, payment_end_date, size_scholarship, number_record_book) VALUES (6, 'Социальная', '2022-02-01', '2022-06-30', 3000, 283991);

INSERT INTO "SESSION".scholarship (id_scholarship, type_scholarship,

payment_start_date, payment_end_date, size_scholarship, number_record_book) VALUES (7, 'Социальная', '2021-07-01', '2022-01-31', 3000, 283991);

INSERT INTO "SESSION".scholarship (id_scholarship, type_scholarship,

payment_start_date, payment_end_date, size_scholarship, number_record_book) VALUES (8, 'Базовая', '2021-07-01', '2022-01-31', 2000, 336702);

Заполнение данными таблицы schedule_session

--

- -- TOC entry 3141 (class 0 OID 17173)
- -- Dependencies: 223
- -- Data for Name: shedule_session; Type: TABLE DATA; Schema: SESSION; Owner: postgres

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INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject, id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (1, 1, 1, 3, 3, '2022-01-28', '10:00:00', 'K3240', 'Проведен');

INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject,

id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (2, 1, 2, 3, 4, '2022-06-20', '10:00:00', 'K3240', 'Запланирован');

INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject,

id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (3, 2, 9, 10, 2, '2021-06-27', '09:00:00', 'K3140', 'Запланирован');

INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject,

id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (4, 5, 8, 6, 1, '2021-12-18', '11:40:00', 'K3140', 'Проведен');

INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject,

id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (5, 7, 13, 5, 8, '2022-06-28', '10:00:00', 'N33481', 'Запланирован');

INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject,

id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (6, 7, 14, 5, 8, '2022-06-11', '10:00:00', 'N33481', 'Запланирован');

INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject,

id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (7, 8, 15, 13, 7, '2022-01-16', '10:00:00', 'N33481', 'Проведен');

INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject, id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (8, 8, 16, 13, 7, '2022-01-22', '11:40:00', 'N33481', 'Проведен');

INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject, id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (9, 9, 5, 10, 3, '2022-01-18', '13:30:00', 'K3240', 'Проведен');

INSERT INTO "SESSION".shedule_session (id_shedule, id_teacher, id_subject, id_classroom, term, exam_date, exam_time, group_number, exam_status) VALUES (10, 9, 5, 10, 1, '2022-01-25', '11:40:00', 'К3140', 'Проведен');

Заполнение данными таблицы student

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- -- TOC entry 3123 (class 0 OID 17018)
- -- Dependencies: 205
- -- Data for Name: student; Type: TABLE DATA; Schema: SESSION; Owner: postgres

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INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (3, 'Мельникова', 'Анна', 'Олеговна', 'Обучается');

INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (4, 'Винтон', 'София', 'Петровна', 'В академ. отпуске');

INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (5, 'Бабан', 'Виктория', '', 'Обучается'); INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (6, 'Вэй', 'Дифэй', '', 'В академ. отпуске'); INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (7, 'Ларичева', 'Дарья', 'Кирилловна', 'Обучается');

INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (8, 'Буй', 'Ань', 'Туан', 'Обучается'); INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (10, 'Жуков', 'Вадим', 'Витальевич', 'Обучается');

INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (11, 'Жуков', 'Дмитрий', 'Витальевич', 'Обучается');

INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (12, 'Хопкинсон', 'Амелия', ", 'Отчислен'); INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (13, 'Каур', 'Барри', ", 'Обучается'); INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (14, 'Клифтон', 'Боб', ", 'В академ. отпуске'); INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (15, 'Устин', 'Денис', 'Алексеевич',

'Обучается');

INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (16, 'Байков', 'Иван', ", 'Обучается'); INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (2, 'Иванов', 'Иван', 'Вадимович', 'Отчислен');

INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (9, 'Xовард', 'Курт', ", 'Отчислен'); INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (1, 'Гафаров', 'Данил', 'Альбертович', 'Обучается');

INSERT INTO "SESSION".student (id_student, last_name_student, name_student, patronymic_student, student_status) VALUES (17, 'Балдина', 'Дарья', 'Даниловна', 'Обучается');

Заполнение данными таблицы study_plan

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- -- TOC entry 3135 (class 0 OID 17132)
- -- Dependencies: 217
- -- Data for Name: study_plan; Type: TABLE DATA; Schema: SESSION; Owner: postgres

INSERT INTO "SESSION".study_plan (id_study_plan, period_from, period_to, id_direction) VALUES (13270, '2020-09-01', '2024-08-31', 3);

INSERT INTO "SESSION".study_plan (id_study_plan, period_from, period_to, id_direction) VALUES (13321, '2020-09-01', '2024-08-31', 5);

INSERT INTO "SESSION".study_plan (id_study_plan, period_from, period_to, id_direction) VALUES (13125, '2020-09-01', '2024-08-31', 2);

INSERT INTO "SESSION".study_plan (id_study_plan, period_from, period_to, id_direction) VALUES (13275, '2020-09-01', '2024-08-31', 4);

INSERT INTO "SESSION".study_plan (id_study_plan, period_from, period_to, id_direction) VALUES (13110, '2020-09-01', '2024-08-31', 1);

Заполнение данными таблицы stydying_student

--

- -- TOC entry 3131 (class 0 OID 17094)
- -- Dependencies: 213
- -- Data for Name: stydying_student; Type: TABLE DATA; Schema: SESSION; Owner: postgres

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INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from, period_education_to, number_record_book) VALUES (1, 7, '2021-09-01', '2022-06-30', 336477);

INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from, period_education_to, number_record_book) VALUES (3, 7, '2021-09-01', '2022-06-30', 333871);

INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from,

period_education_to, number_record_book) VALUES (5, 1, '2021-09-01', '2022-06-30', 312310);

INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from, period_education_to, number_record_book) VALUES (7, 6, '2021-09-01', '2022-06-30', 336702);

INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from, period_education_to, number_record_book) VALUES (8, 5, '2021-09-01', '2022-06-30', 288987);

INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from, period_education_to, number_record_book) VALUES (10, 3, '2021-09-01', '2022-06-30', 283128);

INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from, period_education_to, number_record_book) VALUES (11, 3, '2021-09-01', '2022-06-30', 283129);

INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from, period_education_to, number_record_book) VALUES (15, 3, '2021-09-01', '2022-06-30', 283991);

INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from, period_education_to, number_record_book) VALUES (16, 2, '2021-09-01', '2022-06-30', 336100);

INSERT INTO "SESSION".stydying_student (id_student, id_group, period_education_from, period_education_to, number_record_book) VALUES (17, 1, '2021-09-01', '2022-06-30', 312407);

Заполнение данными таблицы subject

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- -- TOC entry 3137 (class 0 OID 17146)
- -- Dependencies: 219
- -- Data for Name: subject; Type: TABLE DATA; Schema: SESSION; Owner: postgres

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (1, 'Базы данных', 'Зачёт', 13270);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (2, 'Проектирование и реализация баз данных', 'Экзамен', 13270);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (3, 'История', 'Экзамен', 13270);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (4, 'Иностранный язык', 'Зачёт', 13270);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (5, 'Математика', 'Экзамен', 13270);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (6, 'OOП', 'Экзамен', 13270);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (7, 'Визуализация и моделирование', 'Зачёт', 13270); INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification,

id_study_plan) VALUES (8, 'Инфокоммуникационные системы и технологии', 'Курсовая

работа', 13270);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (9, 'Моделирование инфокоммуникационных систем', 'Зачёт', 13270):

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (10, 'Математика', 'Экзамен', 13321);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (11, 'Моделирование инфокоммуникационных систем', 'Экзамен', 13321);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (12, 'Основы информационной безопасности', 'Экзамен', 13275); INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (13, 'Математические основы криптологии', 'Дифференцированный зачёт', 13275);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (14, 'Теория информации', 'Дифференцированный зачёт', 13275);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (15, 'Защита информации в системе управления базами данных', 'Экзамен', 13275);

INSERT INTO "SESSION".subject (id_subject, name_subject, type_certification, id_study_plan) VALUES (16, 'Обеспечение информационной безопасности мобильных устройств', 'Зачёт', 13275);

Заполнение данными таблицы teacher

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- -- TOC entry 3139 (class 0 OID 17160)
- -- Dependencies: 221
- -- Data for Name: teacher; Type: TABLE DATA; Schema: SESSION; Owner: postgres

INSERT INTO "SESSION".teacher (id_teacher, last_name_teacher, name_teacher, patronymic_teacher, post, id_division) VALUES (1, 'Говорова', 'Марина', 'Михайловна', 'преподаватель', 3);

INSERT INTO "SESSION".teacher (id_teacher, last_name_teacher, name_teacher, patronymic_teacher, post, id_division) VALUES (2, 'Валитова', 'Юлия', 'Олеговна', 'доцент', 3);

INSERT INTO "SESSION".teacher (id_teacher, last_name_teacher, name_teacher, patronymic_teacher, post, id_division) VALUES (3, 'Артемов', 'Максим', ", 'профессор', 2); INSERT INTO "SESSION".teacher (id_teacher, last_name_teacher, name_teacher, patronymic_teacher, post, id_division) VALUES (4, 'Асач', 'Алексей', 'Владимирович', 'ведущий инженер', 7);

INSERT INTO "SESSION".teacher (id_teacher, last_name_teacher, name_teacher, patronymic_teacher, post, id_division) VALUES (6, 'Будько', 'Михаил', 'Юрьевич', 'доцент', 5):

INSERT INTO "SESSION".teacher (id_teacher, last_name_teacher, name_teacher, patronymic_teacher, post, id_division) VALUES (5, 'Горлушкина', 'Наталия', 'Николаевна', 'доцент', 3);

INSERT INTO "SESSION".teacher (id_teacher, last_name_teacher, name_teacher, patronymic_teacher, post, id_division) VALUES (7, 'Кузнецов', 'Александр', 'Юрьевич', 'доцент', 5);

INSERT INTO "SESSION".teacher (id_teacher, last_name_teacher, name_teacher, patronymic_teacher, post, id_division) VALUES (8, 'Таранов', 'Сергей', 'Владимирович', 'доцент', 5);

INSERT INTO "SESSION".teacher (id_teacher, last_name_teacher, name_teacher, patronymic_teacher, post, id_division) VALUES (9, 'Блаженов', 'Алексей', 'Викторович', 'доцент', 8);

Первичные ключи

--

- -- TOC entry 2948 (class 2606 OID 17009)
- -- Name: classroom_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres

--

ALTER TABLE ONLY "SESSION".classroom
ADD CONSTRAINT classroom_pkey PRIMARY KEY (id_classroom);

--

- -- TOC entry 2955 (class 2606 OID 17073)
- -- Name: direction_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres

--

ALTER TABLE ONLY "SESSION".direction
ADD CONSTRAINT direction_pkey PRIMARY KEY (id_direction);

--

- -- TOC entry 2953 (class 2606 OID 17065)
- -- Name: division_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres

--

ALTER TABLE ONLY "SESSION".division
ADD CONSTRAINT division_pkey PRIMARY KEY (id_division);

--

- -- TOC entry 2957 (class 2606 OID 17086)
- -- Name: group_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres

--

ALTER TABLE ONLY "SESSION"."group"
ADD CONSTRAINT group_pkey PRIMARY KEY (id_group);

```
-- TOC entry 2973 (class 2606 OID 17204)
-- Name: passing_exam passing_exam_pkey; Type: CONSTRAINT; Schema: SESSION;
Owner: postgres
ALTER TABLE ONLY "SESSION".passing_exam
  ADD CONSTRAINT passing_exam_pkey PRIMARY KEY (id_exam);
-- TOC entry 2946 (class 2606 OID 17001)
-- Name: place place_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres
ALTER TABLE ONLY "SESSION".place
  ADD CONSTRAINT place_pkey PRIMARY KEY (id_place);
-- TOC entry 2963 (class 2606 OID 17123)
-- Name: scholarship_pkey; Type: CONSTRAINT; Schema: SESSION; Owner:
postgres
ALTER TABLE ONLY "SESSION".scholarship
  ADD CONSTRAINT scholarship_pkey PRIMARY KEY (id_scholarship);
-- TOC entry 2971 (class 2606 OID 17179)
-- Name: shedule_session shedule_session_pkey; Type: CONSTRAINT; Schema: SESSION;
Owner: postgres
ALTER TABLE ONLY "SESSION".shedule_session
  ADD CONSTRAINT shedule_session_pkey PRIMARY KEY (id_shedule);
-- TOC entry 2951 (class 2606 OID 17028)
-- Name: student_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres
```

ALTER TABLE ONLY "SESSION".student

ADD CONSTRAINT student_pkey PRIMARY KEY (id_student);

-- TOC entry 2965 (class 2606 OID 17138) -- Name: study_plan study_plan_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".study_plan ADD CONSTRAINT study_plan_pkey PRIMARY KEY (id_study_plan); -- TOC entry 2961 (class 2606 OID 17100) -- Name: stydying_student stydying_student_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".stydying_student ADD CONSTRAINT stydying_student_pkey PRIMARY KEY (number_record_book); -- TOC entry 2967 (class 2606 OID 17152) -- Name: subject subject_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".subject ADD CONSTRAINT subject_pkey PRIMARY KEY (id_subject); -- TOC entry 2969 (class 2606 OID 17165) -- Name: teacher_pkey; Type: CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".teacher ADD CONSTRAINT teacher_pkey PRIMARY KEY (id_teacher); **Индексы** -- TOC entry 2958 (class 1259 OID 17111) -- Name: fki_group; Type: INDEX; Schema: SESSION; Owner: postgres

CREATE INDEX fki_group ON "SESSION".stydying_student USING btree (id_group);

-- TOC entry 2949 (class 1259 OID 17015) -- Name: fki_place; Type: INDEX; Schema: SESSION; Owner: postgres CREATE INDEX fki_place ON "SESSION".classroom USING btree (id_place); -- TOC entry 2959 (class 1259 OID 17112) -- Name: fki_student; Type: INDEX; Schema: SESSION; Owner: postgres CREATE INDEX fki_student ON "SESSION".stydying_student USING btree (id_student); Внешние ключи -- TOC entry 2983 (class 2606 OID 17180) -- Name: shedule_session classroom; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".shedule_session ADD CONSTRAINT classroom FOREIGN KEY (id_classroom) REFERENCES "SESSION".classroom(id_classroom); -- TOC entry 2976 (class 2606 OID 17087) -- Name: group direction; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION"."group" ADD CONSTRAINT direction FOREIGN KEY (id_direction) REFERENCES "SESSION".direction(id_direction); -- TOC entry 2980 (class 2606 OID 17139) -- Name: study_plan direction; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".study_plan ADD CONSTRAINT direction FOREIGN KEY (id_direction) REFERENCES

"SESSION".direction(id_direction);

-- TOC entry 2975 (class 2606 OID 17074) -- Name: direction division; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".direction ADD CONSTRAINT division FOREIGN KEY (id_division) REFERENCES "SESSION".division(id_division); -- TOC entry 2982 (class 2606 OID 17166) -- Name: teacher division; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".teacher ADD CONSTRAINT division FOREIGN KEY (id_division) REFERENCES "SESSION".division(id_division); -- TOC entry 2977 (class 2606 OID 17101) -- Name: stydying_student group; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".stydying_student ADD CONSTRAINT "group" FOREIGN KEY (id_group) REFERENCES "SESSION"."group"(id_group); -- TOC entry 2974 (class 2606 OID 17010) -- Name: classroom place; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres ALTER TABLE ONLY "SESSION".classroom ADD CONSTRAINT place FOREIGN KEY (id_place) REFERENCES "SESSION".place(id_place);

-- Name: passing_exam shedule; Type: FK CONSTRAINT; Schema: SESSION; Owner:

ALTER TABLE ONLY "SESSION".passing_exam

-- TOC entry 2986 (class 2606 OID 17205)

postgres

ADD CONSTRAINT shedule FOREIGN KEY (id_shedule) REFERENCES "SESSION".shedule_session(id_shedule);

--

- -- TOC entry 2979 (class 2606 OID 17124)
- -- Name: scholarship st_student; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres

--

ALTER TABLE ONLY "SESSION".scholarship

ADD CONSTRAINT st_student FOREIGN KEY (number_record_book) REFERENCES "SESSION".stydying_student(number_record_book);

--

- -- TOC entry 2987 (class 2606 OID 17210)
- -- Name: passing_exam st_student; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres

--

ALTER TABLE ONLY "SESSION".passing_exam

ADD CONSTRAINT st_student FOREIGN KEY (number_record_book) REFERENCES "SESSION".stydying_student(number_record_book);

--

- -- TOC entry 2978 (class 2606 OID 17230)
- -- Name: stydying_student student; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres

--

ALTER TABLE ONLY "SESSION".stydying_student

ADD CONSTRAINT student FOREIGN KEY (id_student) REFERENCES "SESSION".student(id_student);

--

- -- TOC entry 2981 (class 2606 OID 17153)
- -- Name: subject study_plan; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres

ALTER TABLE ONLY "SESSION".subject

ADD CONSTRAINT study_plan FOREIGN KEY (id_study_plan) REFERENCES "SESSION".study_plan(id_study_plan);

__

- -- TOC entry 2984 (class 2606 OID 17185)
- -- Name: shedule_session subject; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres

--

ALTER TABLE ONLY "SESSION".shedule_session
ADD CONSTRAINT subject FOREIGN KEY (id_subject) REFERENCES
"SESSION".subject(id_subject);

--

- -- TOC entry 2985 (class 2606 OID 17190)
- -- Name: shedule_session teacher; Type: FK CONSTRAINT; Schema: SESSION; Owner: postgres

--

ALTER TABLE ONLY "SESSION".shedule_session ADD CONSTRAINT teacher FOREIGN KEY (id_teacher) REFERENCES "SESSION".teacher(id_teacher);

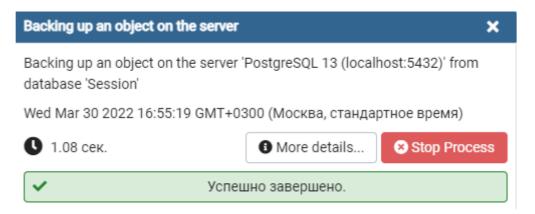
-- Completed on 2022-03-30 21:47:07

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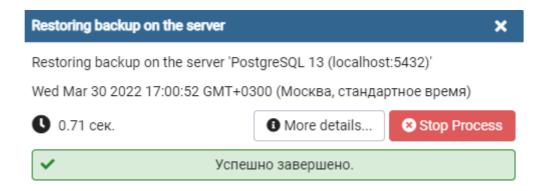
-- PostgreSQL database dump complete

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4) Резервное копирование данных



5) Восстановление базы данных



Вывод:

В ходе выполнения работы была создана база данных в PostgreSQL, созданы таблицы и ограничения на значение столбцов, в базу данных были занесены рабочие данные, а также была создана логическая модель базы данных и dump.