Отчет

по лабораторной работе «Создание таблиц базы данных PostgreSQL.

Заполнение таблиц рабочими данными» по

дисциплине «**Базы данных**»

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ИТМО

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

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. **Выполнение:**
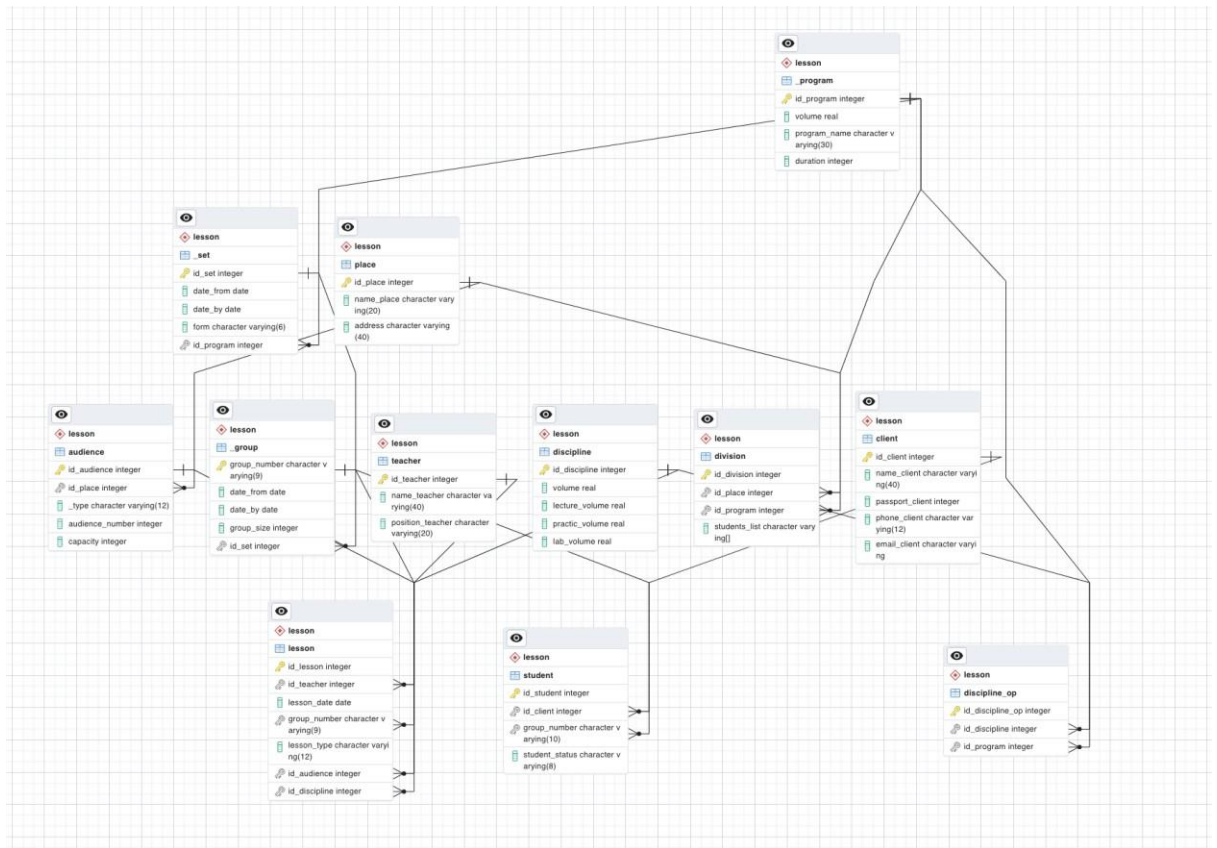
1. **Наименование:** RestaurantBase
2. **Создание базы данных:**
   Создаем новую базу данных, далее при помощи написания скрипта в Query Tool создаем таблицы вместе с ограничениями CHECK, PRIMARY KEY, FOREIGN KEY.
3. **Заполнение таблиц рабочими данными:**
   В том же Query Tool при помощи INSERT заполняем данными таблицы.
4. **Логическая схема базы данных:**

5. Создание резервной копии базы данных:

При помощи функции Backup создаем две резервные копии одна с расширением CUSTOM для восстановления БД, а вторая с расширением PLAIN для листинга в отчете. Ниже приведены вырезки из резервной копии.

```
CREATE TABLE lesson._group (

    group_number character varying(9) NOT NULL,

    date_from date NOT NULL,

    date_by date NOT NULL,

    group_size integer NOT NULL,

    id_set integer NOT NULL,

    CONSTRAINT _group_check CHECK ((date_from >= date_by)),

    CONSTRAINT _group_check1 CHECK ((date_by <= date_from)),

    CONSTRAINT _group_group_size_check CHECK (((0 < group_size) AND
(group_size < 50)))
```

);

ALTER TABLE lesson._group OWNER TO postgres;

--

-- TOC entry 218 (class 1259 OID 16805)

-- Name: _program; Type: TABLE; Schema: lesson; Owner: postgres

--


```sql
CREATE TABLE lesson._program (

    id_program integer NOT NULL,

    volume real NOT NULL,

    program_name character varying(30) NOT NULL,

    duration integer NOT NULL,

    CONSTRAINT _program_duration_check CHECK ((duration > 0)),

    CONSTRAINT _program_program_name_check CHECK (((program_name)::text ~
'^[А-Яа-я]+$'::text)),

    CONSTRAINT _program_volume_check CHECK ((volume > (0)::double precision))
);
```


ALTER TABLE lesson._program OWNER TO postgres;

--

-- TOC entry 217 (class 1259 OID 16804)

-- Name: _program_id_program_seq; Type: SEQUENCE; Schema: lesson; Owner:
postgres

--

```sql
CREATE SEQUENCE lesson._program_id_program_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;




ALTER TABLE lesson._program_id_program_seq OWNER TO postgres;


--

-- TOC entry 3912 (class 0 OID 0)

-- Dependencies: 217

-- Name: _program_id_program_seq; Type: SEQUENCE OWNED BY; Schema: lesson; Owner: postgres

--




ALTER SEQUENCE lesson._program_id_program_seq OWNED BY
lesson._program.id_program;




--

-- TOC entry 220 (class 1259 OID 16815)

-- Name: _set; Type: TABLE; Schema: lesson; Owner: postgres

--




CREATE TABLE lesson._set (
```

```sql
    id_set integer NOT NULL,

    date_from date NOT NULL,

    date_by date NOT NULL,

    form character varying(6) NOT NULL,

    id_program integer NOT NULL,

    CONSTRAINT _set_check CHECK ((date_from >= date_by)),

    CONSTRAINT _set_check1 CHECK ((date_by <= date_from)),

    CONSTRAINT _set_form_check CHECK (((form)::text = ANY
((ARRAY['Очно'::character varying, 'Заочно'::character varying])::text[])))
);
```

ALTER TABLE lesson._set OWNER TO postgres;

--
-- TOC entry 219 (class 1259 OID 16814)

-- Name: _set_id_set_seq; Type: SEQUENCE; Schema: lesson; Owner: postgres

--

```sql
CREATE SEQUENCE lesson._set_id_set_seq
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;
```

ALTER TABLE lesson._set_id_set_seq OWNER TO postgres;

--

-- TOC entry 3913 (class 0 OID 0)

-- Dependencies: 219

-- Name: _set_id_set_seq; Type: SEQUENCE OWNED BY; Schema: lesson; Owner: postgres

--

ALTER SEQUENCE lesson._set_id_set_seq OWNED BY lesson._set.id_set;

--

-- TOC entry 235 (class 1259 OID 16925)

-- Name: audience; Type: TABLE; Schema: lesson; Owner: postgres

--


```
CREATE TABLE lesson.audience (

    id_audience integer NOT NULL,

    id_place integer NOT NULL,

    _type character varying(12) NOT NULL,

    audience_number integer NOT NULL,

    capacity integer NOT NULL,

    CONSTRAINT audience_type_check CHECK (((_type)::text = ANY
((ARRAY['Лабораторная'::character varying, 'Лекция'::character varying,
'Практика'::character varying])::text[]))),

    CONSTRAINT audience_audience_number_check CHECK ((audience_number > 0)),

    CONSTRAINT audience_capacity_check CHECK ((capacity > 0))

);
```

ALTER TABLE lesson.audience OWNER TO postgres;

--

-- TOC entry 234 (class 1259 OID 16924)

-- Name: audience_id_audience_seq; Type: SEQUENCE; Schema: lesson; Owner: postgres

--


```sql
CREATE SEQUENCE lesson.audience_id_audience_seq
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;
```


ALTER TABLE lesson.audience_id_audience_seq OWNER TO postgres;

--

-- TOC entry 3914 (class 0 OID 0)

-- Dependencies: 234

-- Name: audience_id_audience_seq; Type: SEQUENCE OWNED BY; Schema: lesson; Owner: postgres

--

ALTER SEQUENCE lesson.audience_id_audience_seq OWNED BY lesson.audience.id_audience;

--

-- TOC entry 216 (class 1259 OID 16794)

-- Name: client; Type: TABLE; Schema: lesson; Owner: postgres

--

```sql
CREATE TABLE lesson.client (

    id_client integer NOT NULL,

    name_client character varying(40) NOT NULL,

    passport_client integer NOT NULL,

    phone_client character varying(12) NOT NULL,

    email_client character varying NOT NULL,

    CONSTRAINT client_name_client_check CHECK (((name_client)::text ~ '^[А-Яа-
я]+$'::text)),

    CONSTRAINT client_passport_client_check CHECK ((passport_client > 0))
);
```

```sql
ALTER TABLE lesson.client OWNER TO postgres;
```

--

-- TOC entry 215 (class 1259 OID 16793)

-- Name: client_id_client_seq; Type: SEQUENCE; Schema: lesson; Owner: postgres

--

```sql
CREATE SEQUENCE lesson.client_id_client_seq

    AS integer

    START WITH 1
```

```
    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;
```

ALTER TABLE lesson.client_id_client_seq OWNER TO postgres;

--

-- TOC entry 3915 (class 0 OID 0)

-- Dependencies: 215

-- Name: client_id_client_seq; Type: SEQUENCE OWNED BY; Schema: lesson; Owner: postgres

--

ALTER SEQUENCE lesson.client_id_client_seq OWNED BY lesson.client.id_client;

--

-- TOC entry 225 (class 1259 OID 16861)

-- Name: discipline; Type: TABLE; Schema: lesson; Owner: postgres

--

```
CREATE TABLE lesson.discipline (

    id_discipline integer NOT NULL,

    volume real NOT NULL,

    lecture_volume real NOT NULL,

    practic_volume real NOT NULL,

    lab_volume real NOT NULL,
```

CONSTRAINT discipline_volume_check CHECK ((volume > (0)::double precision)),

CONSTRAINT discipline_volume_check1 CHECK ((volume > (0)::double precision)),

CONSTRAINT discipline_volume_check2 CHECK ((volume > (0)::double precision)),

CONSTRAINT discipline_volume_check3 CHECK ((volume > (0)::double precision))

);

ALTER TABLE lesson.discipline OWNER TO postgres;

--

-- TOC entry 224 (class 1259 OID 16860)

-- Name: discipline_id_discipline_seq; Type: SEQUENCE; Schema: lesson; Owner: postgres

--

CREATE SEQUENCE lesson.discipline_id_discipline_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE lesson.discipline_id_discipline_seq OWNER TO postgres;

--

```
ALTER SEQUENCE lesson.discipline_id_discipline_seq OWNED BY
lesson.discipline.id_discipline;
```

```
CREATE TABLE lesson.discipline_op (

    id_discipline_op integer NOT NULL,

    id_discipline integer NOT NULL,

    id_program integer NOT NULL
);
```

```
ALTER TABLE lesson.discipline_op OWNER TO postgres;
```

```sql
CREATE SEQUENCE lesson.discipline_op_id_discipline_op_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;



ALTER TABLE lesson.discipline_op_id_discipline_op_seq OWNER TO postgres;


--

-- TOC entry 3917 (class 0 OID 0)

-- Dependencies: 226

-- Name: discipline_op_id_discipline_op_seq; Type: SEQUENCE OWNED BY;
Schema: lesson; Owner: postgres

--


ALTER SEQUENCE lesson.discipline_op_id_discipline_op_seq OWNED BY
lesson.discipline_op.id_discipline_op;



--

-- TOC entry 233 (class 1259 OID 16906)

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

--


CREATE TABLE lesson.division (
```

```sql
    id_division integer NOT NULL,

    id_place integer NOT NULL,

    id_program integer NOT NULL,

    students_list character varying[] NOT NULL
);
```

ALTER TABLE lesson.division OWNER TO postgres;

--

-- TOC entry 232 (class 1259 OID 16905)

-- Name: division_id_division_seq; Type: SEQUENCE; Schema: lesson; Owner: postgres

--

```sql
CREATE SEQUENCE lesson.division_id_division_seq
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;
```

ALTER TABLE lesson.division_id_division_seq OWNER TO postgres;

--

-- TOC entry 3918 (class 0 OID 0)

-- Dependencies: 232

```sql
ALTER SEQUENCE lesson.division_id_division_seq OWNED BY
lesson.division.id_division;
```

```sql
CREATE TABLE lesson.lesson (
    id_lesson integer NOT NULL,
    id_teacher integer NOT NULL,
    lesson_date date NOT NULL,
    group_number character varying(9) NOT NULL,
    lesson_type character varying(12) NOT NULL,
    id_audience integer NOT NULL,
    id_discipline integer NOT NULL,
    CONSTRAINT lesson_lesson_type_check CHECK (((lesson_type)::text = ANY
((ARRAY['Лабораторная'::character varying, 'Лекция'::character varying,
'Практика'::character varying])::text[])))
);
```

```sql
ALTER TABLE lesson.lesson OWNER TO postgres;
```

-- TOC entry 236 (class 1259 OID 16939)

-- Name: lesson_id_lesson_seq; Type: SEQUENCE; Schema: lesson; Owner: postgres

--

```
CREATE SEQUENCE lesson.lesson_id_lesson_seq
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;
```

```
ALTER TABLE lesson.lesson_id_lesson_seq OWNER TO postgres;
```

--

-- TOC entry 3919 (class 0 OID 0)

-- Dependencies: 236

-- Name: lesson_id_lesson_seq; Type: SEQUENCE OWNED BY; Schema: lesson; Owner: postgres

--

```
ALTER SEQUENCE lesson.lesson_id_lesson_seq OWNED BY lesson.lesson.id_lesson;
```

--

-- TOC entry 231 (class 1259 OID 16898)

-- Name: place; Type: TABLE; Schema: lesson; Owner: postgres

--

```sql
CREATE TABLE lesson.place (

    id_place integer NOT NULL,

    name_place character varying(20) NOT NULL,

    address character varying(40) NOT NULL,

    CONSTRAINT place_name_place_check CHECK (((name_place)::text ~ '^[А-Яа-я]+$'::text))

);
```

ALTER TABLE lesson.place OWNER TO postgres;

--

-- TOC entry 230 (class 1259 OID 16897)

-- Name: place_id_place_seq; Type: SEQUENCE; Schema: lesson; Owner: postgres

--

```sql
CREATE SEQUENCE lesson.place_id_place_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;
```

ALTER TABLE lesson.place_id_place_seq OWNER TO postgres;

--

```
ALTER SEQUENCE lesson.place_id_place_seq OWNED BY lesson.place.id_place;
```

```
CREATE TABLE lesson.student (

    id_student integer NOT NULL,

    id_client integer NOT NULL,

    group_number character varying(10) NOT NULL,

    student_status character varying(8) NOT NULL,

    CONSTRAINT student_student_status_check CHECK (((student_status)::text = ANY
((ARRAY['Зачислен'::character varying, 'Отчислен'::character varying])::text[])))
);
```

```
ALTER TABLE lesson.student OWNER TO postgres;
```

--

CREATE SEQUENCE lesson.student_id_student_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE lesson.student_id_student_seq OWNER TO postgres;

--

-- TOC entry 3921 (class 0 OID 0)

-- Dependencies: 222

-- Name: student_id_student_seq; Type: SEQUENCE OWNED BY; Schema: lesson; Owner: postgres

--

ALTER SEQUENCE lesson.student_id_student_seq OWNED BY lesson.student.id_student;

--

-- TOC entry 229 (class 1259 OID 16889)

-- Name: teacher; Type: TABLE; Schema: lesson; Owner: postgres

--

```sql
CREATE TABLE lesson.teacher (

    id_teacher integer NOT NULL,

    name_teacher character varying(40) NOT NULL,

    position_teacher character varying(20) NOT NULL,

    CONSTRAINT teacher_name_teacher_check CHECK (((name_teacher)::text ~ '^[А-Яа-я]+$'::text)),

    CONSTRAINT teacher_position_teacher_check CHECK (((position_teacher)::text ~ '^[А-Яа-я]+$'::text))
);


ALTER TABLE lesson.teacher OWNER TO postgres;


--
-- TOC entry 228 (class 1259 OID 16888)
-- Name: teacher_id_teacher_seq; Type: SEQUENCE; Schema: lesson; Owner: postgres
--


CREATE SEQUENCE lesson.teacher_id_teacher_seq
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;


ALTER TABLE lesson.teacher_id_teacher_seq OWNER TO postgres;
```

--

-- TOC entry 3922 (class 0 OID 0)

-- Dependencies: 228

-- Name: teacher_id_teacher_seq; Type: SEQUENCE OWNED BY; Schema: lesson; Owner: postgres

--

ALTER SEQUENCE lesson.teacher_id_teacher_seq OWNED BY lesson.teacher.id_teacher;

--

-- TOC entry 244 (class 1259 OID 17021)

-- Name: _group; Type: TABLE; Schema: lessons; Owner: postgres

--

```
CREATE TABLE lessons._group (
    group_number character varying(9) NOT NULL,
    date_from date NOT NULL,
    date_by date NOT NULL,
    group_size integer NOT NULL,
    id_set integer NOT NULL,
    CONSTRAINT _group_check CHECK ((date_from >= date_by)),
    CONSTRAINT _group_check1 CHECK ((date_by <= date_from)),
    CONSTRAINT _group_group_size_check CHECK (((0 < group_size) AND
(group_size < 50)))
);
```

ALTER TABLE lessons._group OWNER TO postgres;

--

-- TOC entry 241 (class 1259 OID 16997)

-- Name: _program; Type: TABLE; Schema: lessons; Owner: postgres

--

CREATE TABLE lessons._program (

   id_program integer NOT NULL,

   volume real NOT NULL,

   program_name character varying(30) NOT NULL,

   duration integer NOT NULL,

   CONSTRAINT _program_duration_check CHECK ((duration > 0)),

   CONSTRAINT _program_program_name_check CHECK (((program_name)::text ~ '^[А-Яа-я]+$'::text)),

   CONSTRAINT _program_volume_check CHECK ((volume > (0)::double precision))

);

ALTER TABLE lessons._program OWNER TO postgres;

--

-- TOC entry 240 (class 1259 OID 16996)

-- Name: _program_id_program_seq; Type: SEQUENCE; Schema: lessons; Owner: postgres

--

CREATE SEQUENCE lessons._program_id_program_seq

   AS integer

```
    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;
```

ALTER TABLE lessons._program_id_program_seq OWNER TO postgres;

--

-- TOC entry 3925 (class 0 OID 0)

-- Dependencies: 240

-- Name: _program_id_program_seq; Type: SEQUENCE OWNED BY; Schema: lessons; Owner: postgres

--

ALTER SEQUENCE lessons._program_id_program_seq OWNED BY lessons._program.id_program;

--

-- TOC entry 243 (class 1259 OID 17007)

-- Name: _set; Type: TABLE; Schema: lessons; Owner: postgres

--

```
CREATE TABLE lessons._set (

    id_set integer NOT NULL,

    date_from date NOT NULL,

    date_by date NOT NULL,
```

form character varying(6) NOT NULL,

id_program integer NOT NULL,

CONSTRAINT _set_check CHECK ((date_from >= date_by)),

CONSTRAINT _set_check1 CHECK ((date_by <= date_from)),

CONSTRAINT _set_form_check CHECK (((form)::text = ANY ((ARRAY['Очно'::character varying, 'Заочно'::character varying])::text[])))
);

ALTER TABLE lessons._set OWNER TO postgres;

--
-- TOC entry 242 (class 1259 OID 17006)
-- Name: _set_id_set_seq; Type: SEQUENCE; Schema: lessons; Owner: postgres
--

CREATE SEQUENCE lessons._set_id_set_seq
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;

ALTER TABLE lessons._set_id_set_seq OWNER TO postgres;

--
-- TOC entry 3927 (class 0 OID 0)

-- Dependencies: 242

-- Name: _set_id_set_seq; Type: SEQUENCE OWNED BY; Schema: lessons; Owner: postgres

--

ALTER SEQUENCE lessons._set_id_set_seq OWNED BY lessons._set.id_set;

--

-- TOC entry 258 (class 1259 OID 17117)

-- Name: audience; Type: TABLE; Schema: lessons; Owner: postgres

--

```
CREATE TABLE lessons.audience (
    id_audience integer NOT NULL,
    id_place integer NOT NULL,
    _type character varying(12) NOT NULL,
    audience_number integer NOT NULL,
    capacity integer NOT NULL,
    CONSTRAINT audience_type_check CHECK (((_type)::text = ANY
((ARRAY['Лабораторная'::character varying, 'Лекция'::character varying,
'Практика'::character varying])::text[]))),
    CONSTRAINT audience_audience_number_check CHECK ((audience_number > 0)),
    CONSTRAINT audience_capacity_check CHECK ((capacity > 0))
);
```

ALTER TABLE lessons.audience OWNER TO postgres;

```
--

-- TOC entry 257 (class 1259 OID 17116)

-- Name: audience_id_audience_seq; Type: SEQUENCE; Schema: lessons; Owner:
postgres

--


CREATE SEQUENCE lessons.audience_id_audience_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;



ALTER TABLE lessons.audience_id_audience_seq OWNER TO postgres;



--

-- TOC entry 3929 (class 0 OID 0)

-- Dependencies: 257

-- Name: audience_id_audience_seq; Type: SEQUENCE OWNED BY; Schema: lessons;
Owner: postgres

--


ALTER SEQUENCE lessons.audience_id_audience_seq OWNED BY
lessons.audience.id_audience;




--
```

```
CREATE TABLE lessons.client (

    id_client integer NOT NULL,

    name_client character varying(40) NOT NULL,

    passport_client integer NOT NULL,

    phone_client character varying(12) NOT NULL,

    email_client character varying NOT NULL,

    CONSTRAINT client_name_client_check CHECK (((name_client)::text ~ '^[А-Яа-я]+$'::text)),

    CONSTRAINT client_passport_client_check CHECK ((passport_client > 0))
);
```

```
ALTER TABLE lessons.client OWNER TO postgres;
```

```
CREATE SEQUENCE lessons.client_id_client_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE
```

```
    CACHE 1;
```

ALTER TABLE lessons.client_id_client_seq OWNER TO postgres;

--

-- TOC entry 3931 (class 0 OID 0)

-- Dependencies: 238

-- Name: client_id_client_seq; Type: SEQUENCE OWNED BY; Schema: lessons;
Owner: postgres

--

ALTER SEQUENCE lessons.client_id_client_seq OWNED BY lessons.client.id_client;

--

-- TOC entry 248 (class 1259 OID 17053)

-- Name: discipline; Type: TABLE; Schema: lessons; Owner: postgres

--

```
CREATE TABLE lessons.discipline (
    id_discipline integer NOT NULL,
    volume real NOT NULL,
    lecture_volume real NOT NULL,
    practic_volume real NOT NULL,
    lab_volume real NOT NULL,
    CONSTRAINT discipline_volume_check CHECK ((volume > (0)::double precision)),
    CONSTRAINT discipline_volume_check1 CHECK ((volume > (0)::double
precision)),
```

```
    CONSTRAINT discipline_volume_check2 CHECK ((volume > (0)::double
precision)),

    CONSTRAINT discipline_volume_check3 CHECK ((volume > (0)::double
precision))

);
```

ALTER TABLE lessons.discipline OWNER TO postgres;

--

-- TOC entry 247 (class 1259 OID 17052)

-- Name: discipline_id_discipline_seq; Type: SEQUENCE; Schema: lessons; Owner: postgres

--

```
CREATE SEQUENCE lessons.discipline_id_discipline_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;
```

ALTER TABLE lessons.discipline_id_discipline_seq OWNER TO postgres;

--

-- TOC entry 3933 (class 0 OID 0)

-- Dependencies: 247

-- Name: discipline_id_discipline_seq; Type: SEQUENCE OWNED BY; Schema: lessons; Owner: postgres

--

ALTER SEQUENCE lessons.discipline_id_discipline_seq OWNED BY lessons.discipline.id_discipline;

--

-- TOC entry 250 (class 1259 OID 17064)

-- Name: discipline_op; Type: TABLE; Schema: lessons; Owner: postgres

--

```
CREATE TABLE lessons.discipline_op (
    id_discipline_op integer NOT NULL,
    id_discipline integer NOT NULL,
    id_program integer NOT NULL
);
```

ALTER TABLE lessons.discipline_op OWNER TO postgres;

--

-- TOC entry 249 (class 1259 OID 17063)

-- Name: discipline_op_id_discipline_op_seq; Type: SEQUENCE; Schema: lessons; Owner: postgres

--

CREATE SEQUENCE lessons.discipline_op_id_discipline_op_seq

AS integer

START WITH 1

INCREMENT BY 1

NO MINVALUE

NO MAXVALUE

CACHE 1;

ALTER TABLE lessons.discipline_op_id_discipline_op_seq OWNER TO postgres;

--

-- TOC entry 3935 (class 0 OID 0)

-- Dependencies: 249

-- Name: discipline_op_id_discipline_op_seq; Type: SEQUENCE OWNED BY; Schema: lessons; Owner: postgres

--

ALTER SEQUENCE lessons.discipline_op_id_discipline_op_seq OWNED BY lessons.discipline_op.id_discipline_op;

--

-- TOC entry 256 (class 1259 OID 17098)

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

--

CREATE TABLE lessons.division (

    id_division integer NOT NULL,

    id_place integer NOT NULL,

```
    id_program integer NOT NULL,

    students_list character varying[] NOT NULL
);
```

ALTER TABLE lessons.division OWNER TO postgres;

```
--
-- TOC entry 255 (class 1259 OID 17097)
-- Name: division_id_division_seq; Type: SEQUENCE; Schema: lessons; Owner:
postgres
--
```

```
CREATE SEQUENCE lessons.division_id_division_seq
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;
```

ALTER TABLE lessons.division_id_division_seq OWNER TO postgres;

```
--
-- TOC entry 3937 (class 0 OID 0)
-- Dependencies: 255
-- Name: division_id_division_seq; Type: SEQUENCE OWNED BY; Schema: lessons;
Owner: postgres
```

--

ALTER SEQUENCE lessons.division_id_division_seq OWNED BY lessons.division.id_division;

--

-- TOC entry 260 (class 1259 OID 17132)

-- Name: lesson; Type: TABLE; Schema: lessons; Owner: postgres

--

CREATE TABLE lessons.lesson (

   id_lesson integer NOT NULL,

   id_teacher integer NOT NULL,

   lesson_date date NOT NULL,

   group_number character varying(9) NOT NULL,

   lesson_type character varying(12) NOT NULL,

   id_audience integer NOT NULL,

   id_discipline integer NOT NULL,

   CONSTRAINT lesson_lesson_type_check CHECK (((lesson_type)::text = ANY ((ARRAY['Лабораторная'::character varying, 'Лекция'::character varying, 'Практика'::character varying])::text[])))

);

ALTER TABLE lessons.lesson OWNER TO postgres;

--

-- TOC entry 259 (class 1259 OID 17131)

-- Name: lesson_id_lesson_seq; Type: SEQUENCE; Schema: lessons; Owner: postgres

--

CREATE SEQUENCE lessons.lesson_id_lesson_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE lessons.lesson_id_lesson_seq OWNER TO postgres;

--

-- TOC entry 3939 (class 0 OID 0)

-- Dependencies: 259

-- Name: lesson_id_lesson_seq; Type: SEQUENCE OWNED BY; Schema: lessons; Owner: postgres

--

ALTER SEQUENCE lessons.lesson_id_lesson_seq OWNED BY lessons.lesson.id_lesson;

--

-- TOC entry 254 (class 1259 OID 17090)

-- Name: place; Type: TABLE; Schema: lessons; Owner: postgres

--

```
CREATE TABLE lessons.place (

    id_place integer NOT NULL,

    name_place character varying(20) NOT NULL,

    address character varying(40) NOT NULL,

    CONSTRAINT place_name_place_check CHECK (((name_place)::text ~ '^[А-Яа-
я]+$'::text))

);



ALTER TABLE lessons.place OWNER TO postgres;



--

-- TOC entry 253 (class 1259 OID 17089)

-- Name: place_id_place_seq; Type: SEQUENCE; Schema: lessons; Owner: postgres

--



CREATE SEQUENCE lessons.place_id_place_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;



ALTER TABLE lessons.place_id_place_seq OWNER TO postgres;



--
```

ALTER SEQUENCE lessons.place_id_place_seq OWNED BY lessons.place.id_place;

```
CREATE TABLE lessons.student (

    id_student integer NOT NULL,

    id_client integer NOT NULL,

    group_number character varying(10) NOT NULL,

    student_status character varying(8) NOT NULL,

    CONSTRAINT student_student_status_check CHECK (((student_status)::text = ANY
((ARRAY['Зачислен'::character varying, 'Отчислен'::character varying])::text[])))
);
```

ALTER TABLE lessons.student OWNER TO postgres;

--

CREATE SEQUENCE lessons.student_id_student_seq

    AS integer

    START WITH 1

    INCREMENT BY 1

    NO MINVALUE

    NO MAXVALUE

    CACHE 1;

ALTER TABLE lessons.student_id_student_seq OWNER TO postgres;

--

-- TOC entry 3943 (class 0 OID 0)

-- Dependencies: 245

-- Name: student_id_student_seq; Type: SEQUENCE OWNED BY; Schema: lessons; Owner: postgres

--

ALTER SEQUENCE lessons.student_id_student_seq OWNED BY lessons.student.id_student;

--

-- TOC entry 252 (class 1259 OID 17081)

-- Name: teacher; Type: TABLE; Schema: lessons; Owner: postgres

--

```sql
CREATE TABLE lessons.teacher (

    id_teacher integer NOT NULL,

    name_teacher character varying(40) NOT NULL,

    position_teacher character varying(20) NOT NULL,

    CONSTRAINT teacher_name_teacher_check CHECK (((name_teacher)::text ~ '^[А-Яа-я]+$'::text)),

    CONSTRAINT teacher_position_teacher_check CHECK (((position_teacher)::text ~ '^[А-Яа-я]+$'::text))
);


ALTER TABLE lessons.teacher OWNER TO postgres;


--
-- TOC entry 251 (class 1259 OID 17080)
-- Name: teacher_id_teacher_seq; Type: SEQUENCE; Schema: lessons; Owner: postgres
--


CREATE SEQUENCE lessons.teacher_id_teacher_seq
    AS integer
    START WITH 1
    INCREMENT BY 1
    NO MINVALUE
    NO MAXVALUE
    CACHE 1;


ALTER TABLE lessons.teacher_id_teacher_seq OWNER TO postgres;
```

--

-- TOC entry 3945 (class 0 OID 0)

-- Dependencies: 251

-- Name: teacher_id_teacher_seq; Type: SEQUENCE OWNED BY; Schema: lessons; Owner: postgres

--

```
ALTER SEQUENCE lessons.teacher_id_teacher_seq OWNED BY
lessons.teacher.id_teacher;
```

--

-- TOC entry 3577 (class 2604 OID 16808)

-- Name: _program id_program; Type: DEFAULT; Schema: lesson; Owner: postgres

--

```
ALTER TABLE ONLY lesson._program ALTER COLUMN id_program SET
DEFAULT nextval('lesson._program_id_program_seq'::regclass);
```

--

-- TOC entry 3578 (class 2604 OID 16818)

-- Name: _set id_set; Type: DEFAULT; Schema: lesson; Owner: postgres

--

```
ALTER TABLE ONLY lesson._set ALTER COLUMN id_set SET DEFAULT
nextval('lesson._set_id_set_seq'::regclass);
```

--

--

-- TOC entry 3585 (class 2604 OID 16928)

-- Name: audience id_audience; Type: DEFAULT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.audience ALTER COLUMN id_audience SET
DEFAULT nextval('lesson.audience_id_audience_seq'::regclass);

--

-- TOC entry 3576 (class 2604 OID 16797)

-- Name: client id_client; Type: DEFAULT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.client ALTER COLUMN id_client SET DEFAULT
nextval('lesson.client_id_client_seq'::regclass);

--

-- TOC entry 3580 (class 2604 OID 16864)

-- Name: discipline id_discipline; Type: DEFAULT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.discipline ALTER COLUMN id_discipline SET
DEFAULT nextval('lesson.discipline_id_discipline_seq'::regclass);

--

-- TOC entry 3581 (class 2604 OID 16875)

-- Name: discipline_op id_discipline_op; Type: DEFAULT; Schema: lesson; Owner:
postgres

--

ALTER TABLE ONLY lesson.discipline_op ALTER COLUMN id_discipline_op SET DEFAULT nextval('lesson.discipline_op_id_discipline_op_seq'::regclass);

--

-- TOC entry 3584 (class 2604 OID 16909)

-- Name: division id_division; Type: DEFAULT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.division ALTER COLUMN id_division SET DEFAULT nextval('lesson.division_id_division_seq'::regclass);

--

-- TOC entry 3586 (class 2604 OID 16943)

-- Name: lesson id_lesson; Type: DEFAULT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.lesson ALTER COLUMN id_lesson SET DEFAULT nextval('lesson.lesson_id_lesson_seq'::regclass);

--

-- TOC entry 3583 (class 2604 OID 16901)

-- Name: place id_place; Type: DEFAULT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.place ALTER COLUMN id_place SET DEFAULT nextval('lesson.place_id_place_seq'::regclass);

--

-- TOC entry 3579 (class 2604 OID 16846)

-- Name: student id_student; Type: DEFAULT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.student ALTER COLUMN id_student SET DEFAULT nextval('lesson.student_id_student_seq'::regclass);

--

-- TOC entry 3582 (class 2604 OID 16892)

-- Name: teacher id_teacher; Type: DEFAULT; Schema: lesson; Owner: postgres

--

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

--

-- TOC entry 3588 (class 2604 OID 17000)

-- Name: _program id_program; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons._program ALTER COLUMN id_program SET DEFAULT nextval('lessons._program_id_program_seq'::regclass);

--

-- TOC entry 3589 (class 2604 OID 17162)

-- Name: _set id_set; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons._set ALTER COLUMN id_set SET DEFAULT nextval('lessons._set_id_set_seq'::regclass);

--

-- TOC entry 3596 (class 2604 OID 17120)

-- Name: audience id_audience; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.audience ALTER COLUMN id_audience SET DEFAULT nextval('lessons.audience_id_audience_seq'::regclass);

--

-- TOC entry 3587 (class 2604 OID 16989)

-- Name: client id_client; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.client ALTER COLUMN id_client SET DEFAULT nextval('lessons.client_id_client_seq'::regclass);

--

-- TOC entry 3591 (class 2604 OID 17056)

-- Name: discipline id_discipline; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.discipline ALTER COLUMN id_discipline SET DEFAULT nextval('lessons.discipline_id_discipline_seq'::regclass);

--

-- TOC entry 3592 (class 2604 OID 17067)

-- Name: discipline_op id_discipline_op; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.discipline_op ALTER COLUMN id_discipline_op SET DEFAULT nextval('lessons.discipline_op_id_discipline_op_seq'::regclass);

--

-- TOC entry 3595 (class 2604 OID 17101)

-- Name: division id_division; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.division ALTER COLUMN id_division SET DEFAULT nextval('lessons.division_id_division_seq'::regclass);

--

-- TOC entry 3597 (class 2604 OID 17135)

-- Name: lesson id_lesson; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.lesson ALTER COLUMN id_lesson SET DEFAULT nextval('lessons.lesson_id_lesson_seq'::regclass);

--

-- TOC entry 3594 (class 2604 OID 17093)

-- Name: place id_place; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.place ALTER COLUMN id_place SET DEFAULT nextval('lessons.place_id_place_seq'::regclass);

--

-- TOC entry 3590 (class 2604 OID 17038)

-- Name: student id_student; Type: DEFAULT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.student ALTER COLUMN id_student SET DEFAULT nextval('lessons.student_id_student_seq'::regclass);

--

-- TOC entry 3593 (class 2604 OID 17084)

-- Name: teacher id_teacher; Type: DEFAULT; Schema: lessons; Owner: postgres

--

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

--

-- TOC entry 3866 (class 0 OID 16829)

-- Dependencies: 221

-- Data for Name: _group; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson._group (group_number, date_from, date_by, group_size, id_set) FROM stdin;

K32391   2023-06-29   2022-09-01   40   1

\.

--

-- TOC entry 3863 (class 0 OID 16805)

-- Dependencies: 218

-- Data for Name: _program; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson._program (id_program, volume, program_name, duration) FROM stdin;

123   34.5   Русский   100

\.

--

-- TOC entry 3865 (class 0 OID 16815)

-- Dependencies: 220

-- Data for Name: _set; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson._set (id_set, date_from, date_by, form, id_program) FROM stdin;

1   2019-12-01   2019-01-10   Очно   123

\.

--

-- TOC entry 3880 (class 0 OID 16925)

-- Dependencies: 235

-- Data for Name: audience; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson.audience (id_audience, id_place, _type, audience_number, capacity) FROM stdin;

1   1   Практика   302   100

\.

--

-- TOC entry 3861 (class 0 OID 16794)

-- Dependencies: 216

-- Data for Name: client; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson.client (id_client, name_client, passport_client, phone_client, email_client) FROM stdin;

42 Даниил   2336523   87779965434 dadaya@mail.ru

\.

--

-- TOC entry 3870 (class 0 OID 16861)

-- Dependencies: 225

-- Data for Name: discipline; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson.discipline (id_discipline, volume, lecture_volume, practic_volume, lab_volume) FROM stdin;

1   42.5   13   11   2

\.

--

-- TOC entry 3872 (class 0 OID 16872)

-- Dependencies: 227

-- Data for Name: discipline_op; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson.discipline_op (id_discipline_op, id_discipline, id_program) FROM stdin;

1   1   123

\.

--

--

-- TOC entry 3878 (class 0 OID 16906)

-- Dependencies: 233

-- Data for Name: division; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson.division (id_division, id_place, id_program, students_list) FROM stdin;

1   1   123   {Даниил,Петр}

\.

--

-- TOC entry 3882 (class 0 OID 16940)

-- Dependencies: 237

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

--

COPY lesson.lesson (id_lesson, id_teacher, lesson_date, group_number, lesson_type, id_audience, id_discipline) FROM stdin;

1   1   2023-03-24   K32391   Лекция   1   1

\.

--

-- TOC entry 3876 (class 0 OID 16898)

-- Dependencies: 231

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

--

COPY lesson.place (id_place, name_place, address) FROM stdin;

1	Кронверкский		Кронверкский 49

\.

--

-- TOC entry 3868 (class 0 OID 16843)

-- Dependencies: 223

-- Data for Name: student; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson.student (id_student, id_client, group_number, student_status) FROM stdin;

23 42	K32391		Зачислен

\.

--

-- TOC entry 3874 (class 0 OID 16889)

-- Dependencies: 229

-- Data for Name: teacher; Type: TABLE DATA; Schema: lesson; Owner: postgres

--

COPY lesson.teacher (id_teacher, name_teacher, position_teacher) FROM stdin;

1	Николай		Математик

\.

--

-- TOC entry 3889 (class 0 OID 17021)

```
COPY lessons._group (group_number, date_from, date_by, group_size, id_set) FROM stdin;
\.
```

```
COPY lessons._program (id_program, volume, program_name, duration) FROM stdin;
2	92.5	русский	76
\.
```

```
COPY lessons._set (id_set, date_from, date_by, form, id_program) FROM stdin;
28 2019-12-01	2019-01-10	Очно	2
\.
```

--

-- TOC entry 3903 (class 0 OID 17117)

-- Dependencies: 258

-- Data for Name: audience; Type: TABLE DATA; Schema: lessons; Owner: postgres

--

```
COPY lessons.audience (id_audience, id_place, _type, audience_number, capacity)
FROM stdin;
\.
```

--

-- TOC entry 3884 (class 0 OID 16986)

-- Dependencies: 239

-- Data for Name: client; Type: TABLE DATA; Schema: lessons; Owner: postgres

--

```
COPY lessons.client (id_client, name_client, passport_client, phone_client, email_client)
FROM stdin;
\.
```

--

-- TOC entry 3893 (class 0 OID 17053)

-- Dependencies: 248

-- Data for Name: discipline; Type: TABLE DATA; Schema: lessons; Owner: postgres

--

COPY lessons.discipline (id_discipline, volume, lecture_volume, practic_volume, lab_volume) FROM stdin;

\.

--

-- TOC entry 3895 (class 0 OID 17064)

-- Dependencies: 250

-- Data for Name: discipline_op; Type: TABLE DATA; Schema: lessons; Owner: postgres

--

COPY lessons.discipline_op (id_discipline_op, id_discipline, id_program) FROM stdin;

\.

--

-- TOC entry 3901 (class 0 OID 17098)

-- Dependencies: 256

-- Data for Name: division; Type: TABLE DATA; Schema: lessons; Owner: postgres

--

COPY lessons.division (id_division, id_place, id_program, students_list) FROM stdin;

\.

--

-- TOC entry 3905 (class 0 OID 17132)

-- Dependencies: 260

-- Data for Name: lesson; Type: TABLE DATA; Schema: lessons; Owner: postgres

--

COPY lessons.lesson (id_lesson, id_teacher, lesson_date, group_number, lesson_type, id_audience, id_discipline) FROM stdin;

\.

--

-- TOC entry 3899 (class 0 OID 17090)

-- Dependencies: 254

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

--

COPY lessons.place (id_place, name_place, address) FROM stdin;

\.

--

-- TOC entry 3891 (class 0 OID 17035)

-- Dependencies: 246

-- Data for Name: student; Type: TABLE DATA; Schema: lessons; Owner: postgres

--

COPY lessons.student (id_student, id_client, group_number, student_status) FROM stdin;

\.

--

-- TOC entry 3897 (class 0 OID 17081)

-- Dependencies: 252

-- Data for Name: teacher; Type: TABLE DATA; Schema: lessons; Owner: postgres

--

COPY lessons.teacher (id_teacher, name_teacher, position_teacher) FROM stdin;

\.

--

-- TOC entry 3946 (class 0 OID 0)

-- Dependencies: 217

-- Name: _program_id_program_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

SELECT pg_catalog.setval('lesson._program_id_program_seq', 1, false);

--

-- TOC entry 3947 (class 0 OID 0)

-- Dependencies: 219

-- Name: _set_id_set_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

SELECT pg_catalog.setval('lesson._set_id_set_seq', 1, true);

--

-- TOC entry 3948 (class 0 OID 0)

-- Dependencies: 234

-- Name: audience_id_audience_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

SELECT pg_catalog.setval('lesson.audience_id_audience_seq', 1, false);

--

-- TOC entry 3949 (class 0 OID 0)

-- Dependencies: 215

-- Name: client_id_client_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

SELECT pg_catalog.setval('lesson.client_id_client_seq', 1, false);

--

-- TOC entry 3950 (class 0 OID 0)

-- Dependencies: 224

-- Name: discipline_id_discipline_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

SELECT pg_catalog.setval('lesson.discipline_id_discipline_seq', 1, false);

--

-- TOC entry 3951 (class 0 OID 0)

-- Dependencies: 226

-- Name: discipline_op_id_discipline_op_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

```sql
SELECT pg_catalog.setval('lesson.discipline_op_id_discipline_op_seq', 1, false);
```

--

-- TOC entry 3952 (class 0 OID 0)

-- Dependencies: 232

-- Name: division_id_division_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

```sql
SELECT pg_catalog.setval('lesson.division_id_division_seq', 1, false);
```

--

-- TOC entry 3953 (class 0 OID 0)

-- Dependencies: 236

-- Name: lesson_id_lesson_seq; Type: SEQUENCE SET; Schema: lesson; Owner:

postgres

--

SELECT pg_catalog.setval('lesson.lesson_id_lesson_seq', 1, false);

--

-- TOC entry 3954 (class 0 OID 0)

-- Dependencies: 230

-- Name: place_id_place_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

SELECT pg_catalog.setval('lesson.place_id_place_seq', 1, false);

--

-- TOC entry 3955 (class 0 OID 0)

-- Dependencies: 222

-- Name: student_id_student_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

SELECT pg_catalog.setval('lesson.student_id_student_seq', 1, false);

--

-- TOC entry 3956 (class 0 OID 0)

-- Dependencies: 228

-- Name: teacher_id_teacher_seq; Type: SEQUENCE SET; Schema: lesson; Owner: postgres

--

SELECT pg_catalog.setval('lesson.teacher_id_teacher_seq', 1, false);

--

-- TOC entry 3957 (class 0 OID 0)

-- Dependencies: 240

-- Name: _program_id_program_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons._program_id_program_seq', 2, true);

--

-- TOC entry 3958 (class 0 OID 0)

-- Dependencies: 242

-- Name: _set_id_set_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons._set_id_set_seq', 28, true);

--

-- TOC entry 3959 (class 0 OID 0)

-- Dependencies: 257

-- Name: audience_id_audience_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons.audience_id_audience_seq', 1, false);

--

-- TOC entry 3960 (class 0 OID 0)

-- Dependencies: 238

-- Name: client_id_client_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons.client_id_client_seq', 1, false);

--

-- TOC entry 3961 (class 0 OID 0)

-- Dependencies: 247

-- Name: discipline_id_discipline_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons.discipline_id_discipline_seq', 1, false);

--

-- TOC entry 3962 (class 0 OID 0)

-- Dependencies: 249

-- Name: discipline_op_id_discipline_op_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons.discipline_op_id_discipline_op_seq', 1, false);

--

-- TOC entry 3963 (class 0 OID 0)

-- Dependencies: 255

-- Name: division_id_division_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons.division_id_division_seq', 1, false);

--

-- TOC entry 3964 (class 0 OID 0)

-- Dependencies: 259

-- Name: lesson_id_lesson_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons.lesson_id_lesson_seq', 1, false);

--

-- TOC entry 3965 (class 0 OID 0)

-- Dependencies: 253

-- Name: place_id_place_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons.place_id_place_seq', 1, false);

--

-- TOC entry 3966 (class 0 OID 0)

-- Dependencies: 245

-- Name: student_id_student_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons.student_id_student_seq', 1, false);

--

-- TOC entry 3967 (class 0 OID 0)

-- Dependencies: 251

-- Name: teacher_id_teacher_seq; Type: SEQUENCE SET; Schema: lessons; Owner: postgres

--

SELECT pg_catalog.setval('lessons.teacher_id_teacher_seq', 1, false);

--

-- TOC entry 3651 (class 2606 OID 16836)

-- Name: _group _group_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

```
ALTER TABLE ONLY lesson._group
    ADD CONSTRAINT _group_pkey PRIMARY KEY (group_number);
```

--

-- TOC entry 3647 (class 2606 OID 16813)

-- Name: _program _program_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

```
ALTER TABLE ONLY lesson._program
    ADD CONSTRAINT _program_pkey PRIMARY KEY (id_program);
```

--

-- TOC entry 3649 (class 2606 OID 16823)

-- Name: _set _set_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

```
ALTER TABLE ONLY lesson._set
    ADD CONSTRAINT _set_pkey PRIMARY KEY (id_set);
```

--

-- TOC entry 3665 (class 2606 OID 16933)

-- Name: audience audience_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.audience

    ADD CONSTRAINT audience_pkey PRIMARY KEY (id_audience);

--

-- TOC entry 3645 (class 2606 OID 16803)

-- Name: client client_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.client

    ADD CONSTRAINT client_pkey PRIMARY KEY (id_client);

--

-- TOC entry 3657 (class 2606 OID 16877)

-- Name: discipline_op discipline_op_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.discipline_op

    ADD CONSTRAINT discipline_op_pkey PRIMARY KEY (id_discipline_op);

--

-- TOC entry 3655 (class 2606 OID 16870)

-- Name: discipline discipline_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.discipline

    ADD CONSTRAINT discipline_pkey PRIMARY KEY (id_discipline);

--

-- TOC entry 3663 (class 2606 OID 16913)

-- Name: division division_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.division

    ADD CONSTRAINT division_pkey PRIMARY KEY (id_division);

--

-- TOC entry 3667 (class 2606 OID 16946)

-- Name: lesson lesson_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.lesson

    ADD CONSTRAINT lesson_pkey PRIMARY KEY (id_lesson);

--

-- TOC entry 3661 (class 2606 OID 16904)

-- Name: place place_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

```sql
ALTER TABLE ONLY lesson.place
    ADD CONSTRAINT place_pkey PRIMARY KEY (id_place);
```

--

-- TOC entry 3653 (class 2606 OID 16849)

-- Name: student student_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

```sql
ALTER TABLE ONLY lesson.student
    ADD CONSTRAINT student_pkey PRIMARY KEY (id_student);
```

--

-- TOC entry 3659 (class 2606 OID 16896)

-- Name: teacher teacher_pkey; Type: CONSTRAINT; Schema: lesson; Owner: postgres

--

```sql
ALTER TABLE ONLY lesson.teacher
    ADD CONSTRAINT teacher_pkey PRIMARY KEY (id_teacher);
```

--

-- TOC entry 3675 (class 2606 OID 17028)

-- Name: _group _group_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

```sql
ALTER TABLE ONLY lessons._group
```

ADD CONSTRAINT _group_pkey PRIMARY KEY (group_number);

--

-- TOC entry 3671 (class 2606 OID 17005)

-- Name: _program _program_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons._program

        ADD CONSTRAINT _program_pkey PRIMARY KEY (id_program);

--

-- TOC entry 3673 (class 2606 OID 17015)

-- Name: _set _set_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons._set

        ADD CONSTRAINT _set_pkey PRIMARY KEY (id_set);

--

-- TOC entry 3689 (class 2606 OID 17125)

-- Name: audience audience_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.audience

ADD CONSTRAINT audience_pkey PRIMARY KEY (id_audience);

--

-- TOC entry 3669 (class 2606 OID 16995)

-- Name: client client_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.client

ADD CONSTRAINT client_pkey PRIMARY KEY (id_client);

--

-- TOC entry 3681 (class 2606 OID 17069)

-- Name: discipline_op discipline_op_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.discipline_op

ADD CONSTRAINT discipline_op_pkey PRIMARY KEY (id_discipline_op);

--

-- TOC entry 3679 (class 2606 OID 17062)

-- Name: discipline discipline_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.discipline

```
    ADD CONSTRAINT discipline_pkey PRIMARY KEY (id_discipline);
```

--

-- TOC entry 3687 (class 2606 OID 17105)

-- Name: division division_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

```
ALTER TABLE ONLY lessons.division

    ADD CONSTRAINT division_pkey PRIMARY KEY (id_division);
```

--

-- TOC entry 3691 (class 2606 OID 17138)

-- Name: lesson lesson_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

```
ALTER TABLE ONLY lessons.lesson

    ADD CONSTRAINT lesson_pkey PRIMARY KEY (id_lesson);
```

--

-- TOC entry 3685 (class 2606 OID 17096)

-- Name: place place_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

```
ALTER TABLE ONLY lessons.place

    ADD CONSTRAINT place_pkey PRIMARY KEY (id_place);
```

--

-- TOC entry 3677 (class 2606 OID 17041)

-- Name: student student_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.student

    ADD CONSTRAINT student_pkey PRIMARY KEY (id_student);

--

-- TOC entry 3683 (class 2606 OID 17088)

-- Name: teacher teacher_pkey; Type: CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.teacher

    ADD CONSTRAINT teacher_pkey PRIMARY KEY (id_teacher);

--

-- TOC entry 3693 (class 2606 OID 16837)

-- Name: _group _group_id_set_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson._group

ADD CONSTRAINT _group_id_set_fkey FOREIGN KEY (id_set) REFERENCES lesson._set(id_set);

--

-- TOC entry 3692 (class 2606 OID 16824)

-- Name: _set _set_id_program_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson._set

    ADD CONSTRAINT _set_id_program_fkey FOREIGN KEY (id_program) REFERENCES lesson._program(id_program);

--

-- TOC entry 3700 (class 2606 OID 16934)

-- Name: audience audience_id_place_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.audience

    ADD CONSTRAINT audience_id_place_fkey FOREIGN KEY (id_place) REFERENCES lesson.place(id_place);

--

-- TOC entry 3696 (class 2606 OID 16878)

-- Name: discipline_op discipline_op_id_discipline_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.discipline_op

    ADD CONSTRAINT discipline_op_id_discipline_fkey FOREIGN KEY
(id_discipline) REFERENCES lesson.discipline(id_discipline);

--

-- TOC entry 3697 (class 2606 OID 16883)

-- Name: discipline_op discipline_op_id_program_fkey; Type: FK CONSTRAINT;
Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.discipline_op

    ADD CONSTRAINT discipline_op_id_program_fkey FOREIGN KEY (id_program)
REFERENCES lesson._program(id_program);

--

-- TOC entry 3698 (class 2606 OID 16914)

-- Name: division division_id_place_fkey; Type: FK CONSTRAINT; Schema: lesson;
Owner: postgres

--

ALTER TABLE ONLY lesson.division

    ADD CONSTRAINT division_id_place_fkey FOREIGN KEY (id_place)
REFERENCES lesson.place(id_place);

--

-- TOC entry 3699 (class 2606 OID 16919)

-- Name: division division_id_program_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

```sql
ALTER TABLE ONLY lesson.division

    ADD CONSTRAINT division_id_program_fkey FOREIGN KEY (id_program) REFERENCES lesson._program(id_program);
```

--

-- TOC entry 3701 (class 2606 OID 16952)

-- Name: lesson lesson_group_number_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

```sql
ALTER TABLE ONLY lesson.lesson

    ADD CONSTRAINT lesson_group_number_fkey FOREIGN KEY (group_number) REFERENCES lesson._group(group_number);
```

--

-- TOC entry 3702 (class 2606 OID 16957)

-- Name: lesson lesson_id_audience_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

```sql
ALTER TABLE ONLY lesson.lesson

    ADD CONSTRAINT lesson_id_audience_fkey FOREIGN KEY (id_audience) REFERENCES lesson.audience(id_audience);
```

--

-- TOC entry 3703 (class 2606 OID 16962)

-- Name: lesson lesson_id_discipline_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.lesson

    ADD CONSTRAINT lesson_id_discipline_fkey FOREIGN KEY (id_discipline) REFERENCES lesson.discipline(id_discipline);

--

-- TOC entry 3704 (class 2606 OID 16947)

-- Name: lesson lesson_id_teacher_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.lesson

    ADD CONSTRAINT lesson_id_teacher_fkey FOREIGN KEY (id_teacher) REFERENCES lesson.teacher(id_teacher);

--

-- TOC entry 3694 (class 2606 OID 16855)

-- Name: student student_group_number_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.student

    ADD CONSTRAINT student_group_number_fkey FOREIGN KEY (group_number) REFERENCES lesson._group(group_number);

--

-- TOC entry 3695 (class 2606 OID 16850)

-- Name: student student_id_client_fkey; Type: FK CONSTRAINT; Schema: lesson; Owner: postgres

--

ALTER TABLE ONLY lesson.student

    ADD CONSTRAINT student_id_client_fkey FOREIGN KEY (id_client) REFERENCES lesson.client(id_client);

--

-- TOC entry 3706 (class 2606 OID 17029)

-- Name: _group _group_id_set_fkey; Type: FK CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons._group

    ADD CONSTRAINT _group_id_set_fkey FOREIGN KEY (id_set) REFERENCES lesson._set(id_set);

--

-- TOC entry 3713 (class 2606 OID 17126)

-- Name: audience audience_id_place_fkey; Type: FK CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.audience

    ADD CONSTRAINT audience_id_place_fkey FOREIGN KEY (id_place)
REFERENCES lesson.place(id_place);

--

-- TOC entry 3709 (class 2606 OID 17070)

-- Name: discipline_op discipline_op_id_discipline_fkey; Type: FK CONSTRAINT;
Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.discipline_op

    ADD CONSTRAINT discipline_op_id_discipline_fkey FOREIGN KEY
(id_discipline) REFERENCES lesson.discipline(id_discipline);

--

-- TOC entry 3710 (class 2606 OID 17075)

-- Name: discipline_op discipline_op_id_program_fkey; Type: FK CONSTRAINT;
Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.discipline_op

    ADD CONSTRAINT discipline_op_id_program_fkey FOREIGN KEY (id_program)
REFERENCES lesson._program(id_program);

--

-- TOC entry 3711 (class 2606 OID 17106)

-- Name: division division_id_place_fkey; Type: FK CONSTRAINT; Schema: lessons;
Owner: postgres

--

ALTER TABLE ONLY lessons.division

    ADD CONSTRAINT division_id_place_fkey FOREIGN KEY (id_place)
REFERENCES lesson.place(id_place);

--

-- TOC entry 3712 (class 2606 OID 17111)

-- Name: division division_id_program_fkey; Type: FK CONSTRAINT; Schema:
lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.division

    ADD CONSTRAINT division_id_program_fkey FOREIGN KEY (id_program)
REFERENCES lesson._program(id_program);

--

-- TOC entry 3705 (class 2606 OID 17163)

-- Name: _set fk; Type: FK CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons._set

    ADD CONSTRAINT fk FOREIGN KEY (id_program) REFERENCES
lessons._program(id_program) NOT VALID;

--

-- TOC entry 3714 (class 2606 OID 17144)

-- Name: lesson lesson_group_number_fkey; Type: FK CONSTRAINT; Schema: lessons; Owner: postgres

--

```sql
ALTER TABLE ONLY lessons.lesson
    ADD CONSTRAINT lesson_group_number_fkey FOREIGN KEY (group_number) REFERENCES lesson._group(group_number);
```

--

-- TOC entry 3715 (class 2606 OID 17149)

-- Name: lesson lesson_id_audience_fkey; Type: FK CONSTRAINT; Schema: lessons; Owner: postgres

--

```sql
ALTER TABLE ONLY lessons.lesson
    ADD CONSTRAINT lesson_id_audience_fkey FOREIGN KEY (id_audience) REFERENCES lesson.audience(id_audience);
```

--

-- TOC entry 3716 (class 2606 OID 17154)

-- Name: lesson lesson_id_discipline_fkey; Type: FK CONSTRAINT; Schema: lessons; Owner: postgres

--

```sql
ALTER TABLE ONLY lessons.lesson
    ADD CONSTRAINT lesson_id_discipline_fkey FOREIGN KEY (id_discipline) REFERENCES lesson.discipline(id_discipline);
```

--

-- TOC entry 3717 (class 2606 OID 17139)

-- Name: lesson lesson_id_teacher_fkey; Type: FK CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.lesson

    ADD CONSTRAINT lesson_id_teacher_fkey FOREIGN KEY (id_teacher) REFERENCES lesson.teacher(id_teacher);

--

-- TOC entry 3707 (class 2606 OID 17047)

-- Name: student student_group_number_fkey; Type: FK CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.student

    ADD CONSTRAINT student_group_number_fkey FOREIGN KEY (group_number) REFERENCES lesson._group(group_number);

--

-- TOC entry 3708 (class 2606 OID 17042)

-- Name: student student_id_client_fkey; Type: FK CONSTRAINT; Schema: lessons; Owner: postgres

--

ALTER TABLE ONLY lessons.student

    ADD CONSTRAINT student_id_client_fkey FOREIGN KEY (id_client) REFERENCES lesson.client(id_client);

Вывод:

В ходе лабораторной работы я научился создавать таблицы баз PostgreSQL1X при помощи программного обеспечения PgAdmin4. Также я научился пользоваться средствами вышеупомянутого инструмента для логического моделирования бд, заполнения ее данными, резервного копирования и восстановления.