

Министерство образования Республики Беларусь

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Факультет компьютерных систем и сетей

Кафедра информатики

Дисциплина: Технологии разработки программного обеспечения

Отчет по лабораторной работе №2

«Проектирование и создание базы данных»

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1. Постановка задачи

Разработка логической и физической модели БД не менее чем с 5-ю сущностями, генерация DDL скриптов, создание БД.

Предметная область: система для отслеживания лотов автомобилей *copart.com*.

Тип БД – реляционная, PostgreSQL.

2. Разработка логической модели данных

Проведенный анализ предметной области позволил выявить следующий набор сущностей:

telegram_user — пользователь системы

telegram_user_api_key — токен для идентификации пользователя

filter — набор параметров для однозначной идентификации нужного множества автомобилей

make — производитель автомобилей

model — модель авто

auto — абстракция реально существующих автомобилей, выставленных на продажу

Приложение А. DDL-скрипт для создания схемы базы сервиса на Python

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

-- Dumped from database version 10.14 (Ubuntu 10.14-0ubuntu0.18.04.1)
-- Dumped by pg_dump version 10.14 (Ubuntu 10.14-0ubuntu0.18.04.1)

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;

--
-- Name: plpgsql; Type: EXTENSION; Schema: -; Owner:
--

CREATE EXTENSION IF NOT EXISTS plpgsql WITH SCHEMA pg_catalog;

--
-- Name: EXTENSION plpgsql; Type: COMMENT; Schema: -; Owner:
--

COMMENT ON EXTENSION plpgsql IS 'PL/pgSQL procedural language';
```

```
SET default_tablespace = '';
```

```
SET default_with_oids = false;
```

```
--
```

```
-- Name: auth_group; Type: TABLE; Schema: public; Owner: student
```

```
--
```

```
CREATE TABLE public.auth_group (  
    id integer NOT NULL,  
    name character varying(150) NOT NULL  
);
```

```
ALTER TABLE public.auth_group OWNER TO student;
```

```
--
```

```
-- Name: auth_group_id_seq; Type: SEQUENCE; Schema: public; Owner: student
```

```
--
```

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

```
ALTER TABLE public.auth_group_id_seq OWNER TO student;
```

```
--
```

```
-- Name: auth_group_id_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: student
```

```
--
```

```
ALTER SEQUENCE public.auth_group_id_seq OWNED BY public.auth_group.id;
```

```
--
```

```
-- Name: auth_group_permissions; Type: TABLE; Schema: public; Owner: student
```

```
--
```

```
CREATE TABLE public.auth_group_permissions (
```

```
    id integer NOT NULL,
```

```
    group_id integer NOT NULL,
```

```
    permission_id integer NOT NULL
```

```
);
```

```
ALTER TABLE public.auth_group_permissions OWNER TO student;
```

```
--
```

```
-- Name: auth_group_permissions_id_seq; Type: SEQUENCE; Schema: public; Owner: student
```

```
--
```

```
CREATE SEQUENCE public.auth_group_permissions_id_seq
```

```
    AS integer
```

```
    START WITH 1
```

```
    INCREMENT BY 1
```

```
    NO MINVALUE
```

```
    NO MAXVALUE
```

```
    CACHE 1;
```

```
ALTER TABLE public.auth_group_permissions_id_seq OWNER TO student;
```

```
--
```

```
-- Name: auth_group_permissions_id_seq; Type: SEQUENCE OWNED BY; Schema: public;  
Owner: student
```

--

```
ALTER SEQUENCE public.auth_group_permissions_id_seq OWNED BY
public.auth_group_permissions.id;
```

--

-- Name: auth_permission; Type: TABLE; Schema: public; Owner: student

--

```
CREATE TABLE public.auth_permission (
    id integer NOT NULL,
    name character varying(255) NOT NULL,
    content_type_id integer NOT NULL,
    codename character varying(100) NOT NULL
);
```

```
ALTER TABLE public.auth_permission OWNER TO student;
```

--

-- Name: auth_permission_id_seq; Type: SEQUENCE; Schema: public; Owner: student

--

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

```
ALTER TABLE public.auth_permission_id_seq OWNER TO student;
```



```
--  
-- Name: auth_permission_id_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner:  
student
```

```
--
```

```
ALTER SEQUENCE public.auth_permission_id_seq OWNED BY public.auth_permission.id;
```

```
--
```

```
-- Name: auth_user; Type: TABLE; Schema: public; Owner: student
```

```
--
```

```
CREATE TABLE public.auth_user (  
    id integer NOT NULL,  
    password character varying(128) NOT NULL,  
    last_login timestamp with time zone,  
    is_superuser boolean NOT NULL,  
    username character varying(150) NOT NULL,  
    first_name character varying(150) NOT NULL,  
    last_name character varying(150) NOT NULL,  
    email character varying(254) NOT NULL,  
    is_staff boolean NOT NULL,  
    is_active boolean NOT NULL,  
    date_joined timestamp with time zone NOT NULL  
);
```

```
ALTER TABLE public.auth_user OWNER TO student;
```

```
--
```

```
-- Name: auth_user_groups; Type: TABLE; Schema: public; Owner: student
```

```
--
```

```
CREATE TABLE public.auth_user_groups (  
    id integer NOT NULL,
```

```
    user_id integer NOT NULL,  
    group_id integer NOT NULL  
);
```

```
ALTER TABLE public.auth_user_groups OWNER TO student;
```

```
--  
-- Name: auth_user_groups_id_seq; Type: SEQUENCE; Schema: public; Owner: student  
--
```

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

```
ALTER TABLE public.auth_user_groups_id_seq OWNER TO student;
```

```
--  
-- Name: auth_user_groups_id_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner:  
student  
--
```

```
ALTER SEQUENCE public.auth_user_groups_id_seq OWNED BY public.auth_user_groups.id;
```

```
--  
-- Name: auth_user_id_seq; Type: SEQUENCE; Schema: public; Owner: student  
--
```

```
CREATE SEQUENCE public.auth_user_id_seq
```

```
AS integer
START WITH 1
INCREMENT BY 1
NO MINVALUE
NO MAXVALUE
CACHE 1;
```

```
ALTER TABLE public.auth_user_id_seq OWNER TO student;
```

```
--
-- Name: auth_user_id_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: student
--
```

```
ALTER SEQUENCE public.auth_user_id_seq OWNED BY public.auth_user.id;
```

```
--
-- Name: auth_user_user_permissions; Type: TABLE; Schema: public; Owner: student
--
```

```
CREATE TABLE public.auth_user_user_permissions (
    id integer NOT NULL,
    user_id integer NOT NULL,
    permission_id integer NOT NULL
);
```

```
ALTER TABLE public.auth_user_user_permissions OWNER TO student;
```

```
--
-- Name: auth_user_user_permissions_id_seq; Type: SEQUENCE; Schema: public; Owner: student
--
```

```
CREATE SEQUENCE public.auth_user_user_permissions_id_seq
```

```
AS integer
START WITH 1
INCREMENT BY 1
NO MINVALUE
NO MAXVALUE
CACHE 1;
```

```
ALTER TABLE public.auth_user_user_permissions_id_seq OWNER TO student;
```

```
--
-- Name: auth_user_user_permissions_id_seq; Type: SEQUENCE OWNED BY; Schema: public;
Owner: student
--
```

```
ALTER SEQUENCE public.auth_user_user_permissions_id_seq OWNED BY
public.auth_user_user_permissions.id;
```

```
--
-- Name: bot_user; Type: TABLE; Schema: public; Owner: student
--
```

```
CREATE TABLE public.bot_user (
    id integer NOT NULL,
    telegram_id integer NOT NULL,
    subscription_end timestamp with time zone NOT NULL,
    CONSTRAINT bot_user_telegram_id_check CHECK ((telegram_id >= 0))
);
```

```
ALTER TABLE public.bot_user OWNER TO student;
```

```
--
-- Name: bot_user_id_seq; Type: SEQUENCE; Schema: public; Owner: student
--
```

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

```
ALTER TABLE public.bot_user_id_seq OWNER TO student;
```

```
--
-- Name: bot_user_id_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: student
--
```

```
ALTER SEQUENCE public.bot_user_id_seq OWNED BY public.bot_user.id;
```

```
--
-- Name: django_admin_log; Type: TABLE; Schema: public; Owner: student
--
```

```
CREATE TABLE public.django_admin_log (
  id integer NOT NULL,
  action_time timestamp with time zone NOT NULL,
  object_id text,
  object_repr character varying(200) NOT NULL,
  action_flag smallint NOT NULL,
  change_message text NOT NULL,
  content_type_id integer,
  user_id integer NOT NULL,
  CONSTRAINT django_admin_log_action_flag_check CHECK ((action_flag >= 0))
);
```

```
ALTER TABLE public.django_admin_log OWNER TO student;
```

```
--
```

```
-- Name: django_admin_log_id_seq; Type: SEQUENCE; Schema: public; Owner: student
```

```
--
```

```
CREATE SEQUENCE public.django_admin_log_id_seq
```

```
AS integer
```

```
START WITH 1
```

```
INCREMENT BY 1
```

```
NO MINVALUE
```

```
NO MAXVALUE
```

```
CACHE 1;
```

```
ALTER TABLE public.django_admin_log_id_seq OWNER TO student;
```

```
--
```

```
-- Name: django_admin_log_id_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: student
```

```
--
```

```
ALTER SEQUENCE public.django_admin_log_id_seq OWNED BY public.django_admin_log.id;
```

```
--
```

```
-- Name: django_content_type; Type: TABLE; Schema: public; Owner: student
```

```
--
```

```
CREATE TABLE public.django_content_type (
```

```
id integer NOT NULL,
```

```
app_label character varying(100) NOT NULL,
```

```
model character varying(100) NOT NULL
```

```
);
```

```
ALTER TABLE public.django_content_type OWNER TO student;
```

```
--
```

```
-- Name: django_content_type_id_seq; Type: SEQUENCE; Schema: public; Owner: student
```

```
--
```

```
CREATE SEQUENCE public.django_content_type_id_seq
```

```
    AS integer
```

```
    START WITH 1
```

```
    INCREMENT BY 1
```

```
    NO MINVALUE
```

```
    NO MAXVALUE
```

```
    CACHE 1;
```

```
ALTER TABLE public.django_content_type_id_seq OWNER TO student;
```

```
--
```

```
-- Name: django_content_type_id_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: student
```

```
--
```

```
ALTER SEQUENCE public.django_content_type_id_seq OWNED BY  
public.django_content_type.id;
```

```
--
```

```
-- Name: django_migrations; Type: TABLE; Schema: public; Owner: student
```

```
--
```

```
CREATE TABLE public.django_migrations (
```

```
    id integer NOT NULL,
```

```
    app character varying(255) NOT NULL,
```

```
    name character varying(255) NOT NULL,
```

```
    applied timestamp with time zone NOT NULL
);
```

```
ALTER TABLE public.django_migrations OWNER TO student;
```

```
--
-- Name: django_migrations_id_seq; Type: SEQUENCE; Schema: public; Owner: student
--
```

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

```
ALTER TABLE public.django_migrations_id_seq OWNER TO student;
```

```
--
-- Name: django_migrations_id_seq; Type: SEQUENCE OWNED BY; Schema: public; Owner: student
--
```

```
ALTER SEQUENCE public.django_migrations_id_seq OWNED BY public.django_migrations.id;
```

```
--
-- Name: django_session; Type: TABLE; Schema: public; Owner: student
--
```

```
CREATE TABLE public.django_session (
    session_key character varying(40) NOT NULL,
```



```
session_data text NOT NULL,  
expire_date timestamp with time zone NOT NULL  
);
```

```
ALTER TABLE public.django_session OWNER TO student;
```

```
--  
-- Name: rest_framework_api_key_apikey; Type: TABLE; Schema: public; Owner: student  
--
```

```
CREATE TABLE public.rest_framework_api_key_apikey (  
    id character varying(100) NOT NULL,  
    created timestamp with time zone NOT NULL,  
    name character varying(50) NOT NULL,  
    revoked boolean NOT NULL,  
    expiry_date timestamp with time zone,  
    hashed_key character varying(100) NOT NULL,  
    prefix character varying(8) NOT NULL  
);
```

```
ALTER TABLE public.rest_framework_api_key_apikey OWNER TO student;
```

```
--  
-- Name: auth_group id; Type: DEFAULT; Schema: public; Owner: student  
--
```

```
ALTER TABLE ONLY public.auth_group ALTER COLUMN id SET DEFAULT  
nextval('public.auth_group_id_seq'::regclass);
```

```
--  
-- Name: auth_group_permissions id; Type: DEFAULT; Schema: public; Owner: student  
--
```

```
ALTER TABLE ONLY public.auth_group_permissions ALTER COLUMN id SET DEFAULT
nextval('public.auth_group_permissions_id_seq'::regclass);
```

```
--
```

```
-- Name: auth_permission id; Type: DEFAULT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.auth_permission ALTER COLUMN id SET DEFAULT
nextval('public.auth_permission_id_seq'::regclass);
```

```
--
```

```
-- Name: auth_user id; Type: DEFAULT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.auth_user ALTER COLUMN id SET DEFAULT
nextval('public.auth_user_id_seq'::regclass);
```

```
--
```

```
-- Name: auth_user_groups id; Type: DEFAULT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.auth_user_groups ALTER COLUMN id SET DEFAULT
nextval('public.auth_user_groups_id_seq'::regclass);
```

```
--
```

```
-- Name: auth_user_user_permissions id; Type: DEFAULT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.auth_user_user_permissions ALTER COLUMN id SET DEFAULT
nextval('public.auth_user_user_permissions_id_seq'::regclass);
```

--

-- Name: bot_user id; Type: DEFAULT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.bot_user ALTER COLUMN id SET DEFAULT
nextval('public.bot_user_id_seq'::regclass);

--

-- Name: django_admin_log id; Type: DEFAULT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.django_admin_log ALTER COLUMN id SET DEFAULT
nextval('public.django_admin_log_id_seq'::regclass);

--

-- Name: django_content_type id; Type: DEFAULT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.django_content_type ALTER COLUMN id SET DEFAULT
nextval('public.django_content_type_id_seq'::regclass);

--

-- Name: django_migrations id; Type: DEFAULT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.django_migrations ALTER COLUMN id SET DEFAULT
nextval('public.django_migrations_id_seq'::regclass);

--

-- Data for Name: auth_group; Type: TABLE DATA; Schema: public; Owner: student

--

```
COPY public.auth_group (id, name) FROM stdin;
```

```
\.
```

```
--
```

```
-- Data for Name: auth_group_permissions; Type: TABLE DATA; Schema: public; Owner: student
```

```
--
```

```
COPY public.auth_group_permissions (id, group_id, permission_id) FROM stdin;
```

```
\.
```

```
--
```

```
-- Data for Name: auth_permission; Type: TABLE DATA; Schema: public; Owner: student
```

```
--
```

```
COPY public.auth_permission (id, name, content_type_id, codename) FROM stdin;
```

1	Can add log entry	1	add_logentry
2	Can change log entry	1	change_logentry
3	Can delete log entry	1	delete_logentry
4	Can view log entry	1	view_logentry
5	Can add permission	2	add_permission
6	Can change permission	2	change_permission
7	Can delete permission	2	delete_permission
8	Can view permission	2	view_permission
9	Can add group	3	add_group
10	Can change group	3	change_group
11	Can delete group	3	delete_group
12	Can view group	3	view_group
13	Can add user	4	add_user
14	Can change user	4	change_user
15	Can delete user	4	delete_user
16	Can view user	4	view_user
17	Can add content type	5	add_contenttype
18	Can change content type	5	change_contenttype

19	Can delete content type	5	delete_contenttype
20	Can view content type	5	view_contenttype
21	Can add session	6	add_session
22	Can change session	6	change_session
23	Can delete session	6	delete_session
24	Can view session	6	view_session
25	Can add API key	7	add_apikey
26	Can change API key	7	change_apikey
27	Can delete API key	7	delete_apikey
28	Can view API key	7	view_apikey
29	Can add auto	8	add_auto
30	Can change auto	8	change_auto
31	Can delete auto	8	delete_auto
32	Can view auto	8	view_auto
33	Can add make	9	add_make
34	Can change make	9	change_make
35	Can delete make	9	delete_make
36	Can view make	9	view_make
37	Can add model	10	add_model
38	Can change model	10	change_model
39	Can delete model	10	delete_model
40	Can view model	10	view_model
41	Can add filter	11	add_filter
42	Can change filter	11	change_filter
43	Can delete filter	11	delete_filter
44	Can view filter	11	view_filter
45	Can add telegram user	12	add_telegramuser
46	Can change telegram user	12	change_telegramuser
47	Can delete telegram user	12	delete_telegramuser
48	Can view telegram user	12	view_telegramuser
49	Can add Telegram user API key	13	add_telegramuserapikey
50	Can change Telegram user API key	13	change_telegramuserapikey
51	Can delete Telegram user API key	13	delete_telegramuserapikey
52	Can view Telegram user API key	13	view_telegramuserapikey

\.

--

-- Data for Name: auth_user; Type: TABLE DATA; Schema: public; Owner: student

--

COPY public.auth_user (id, password, last_login, is_superuser, username, first_name, last_name, email, is_staff, is_active, date_joined) FROM stdin;

1

pbkdf2_sha256\$216000\$o1089BOBf7UK\$BWh7QNetKWcmmV+NnqhPE+bRzdApI5FHw4OBB
2LQ3wQ= 2020-11-18 12:36:36.51383+03 t admin t t
2020-11-18 12:36:13.216069+03

\\.

--

-- Data for Name: auth_user_groups; Type: TABLE DATA; Schema: public; Owner: student

--

COPY public.auth_user_groups (id, user_id, group_id) FROM stdin;

\\.

--

-- Data for Name: auth_user_user_permissions; Type: TABLE DATA; Schema: public; Owner: student

--

COPY public.auth_user_user_permissions (id, user_id, permission_id) FROM stdin;

\\.

--

-- Data for Name: bot_user; Type: TABLE DATA; Schema: public; Owner: student

--

```
COPY public.bot_user (id, telegram_id, subscription_end) FROM stdin;
```

```
\.
```

```
--
```

```
-- Data for Name: django_admin_log; Type: TABLE DATA; Schema: public; Owner: student
```

```
--
```

```
COPY public.django_admin_log (id, action_time, object_id, object_repr, action_flag,  
change_message, content_type_id, user_id) FROM stdin;
```

```
\.
```

```
--
```

```
-- Data for Name: django_content_type; Type: TABLE DATA; Schema: public; Owner: student
```

```
--
```

```
COPY public.django_content_type (id, app_label, model) FROM stdin;
```

```
1      admin  logentry
```

```
2      auth   permission
```

```
3      auth   group
```

```
4      auth   user
```

```
5      contenttypes  contenttype
```

```
6      sessions      session
```

```
7      rest_framework_api_key  apikey
```

```
8      autos  auto
```

```
9      autos  make
```

```
10     autos  model
```

```
11     bot    filter
```

```
13     bot    telegramuserapikey
```

```
12     bot    user
```

```
\.
```

```
--
```

```
-- Data for Name: django_migrations; Type: TABLE DATA; Schema: public; Owner: student
```

--

COPY public.django_migrations (id, app, name, applied) FROM stdin;

1	contenttypes	0001_initial	2020-11-18 12:33:43.810515+03
2	auth	0001_initial	2020-11-18 12:33:44.471832+03
3	admin	0001_initial	2020-11-18 12:33:45.472303+03
4	admin	0002_logentry_remove_auto_add	2020-11-18 12:33:45.686502+03
5	admin	0003_logentry_add_action_flag_choices	2020-11-18 12:33:45.784846+03
6	contenttypes	0002_remove_content_type_name	2020-11-18 12:33:45.953319+03
7	auth	0002_alter_permission_name_max_length	2020-11-18 12:33:46.051095+03
8	auth	0003_alter_user_email_max_length	2020-11-18 12:33:46.138153+03
9	auth	0004_alter_user_username_opts	2020-11-18 12:33:46.217432+03
10	auth	0005_alter_user_last_login_null	2020-11-18 12:33:46.309984+03
11	auth	0006_require_contenttypes_0002	2020-11-18 12:33:46.33098+03
12	auth	0007_alter_validators_add_error_messages	2020-11-18 12:33:46.424999+03
13	auth	0008_alter_user_username_max_length	2020-11-18 12:33:46.586882+03
14	auth	0009_alter_user_last_name_max_length	2020-11-18 12:33:46.687498+03
15	auth	0010_alter_group_name_max_length	2020-11-18 12:33:46.790988+03
16	auth	0011_update_proxy_permissions	2020-11-18 12:33:46.888055+03
17	auth	0012_alter_user_first_name_max_length	2020-11-18 12:33:46.976348+03
18	bot	0001_initial	2020-11-18 12:33:47.127205+03
19	autos	0001_initial	2020-11-18 12:33:47.23795+03
20	autos	0002_auto_20201029_2041	2020-11-18 12:33:47.320938+03
21	autos	0003_auto_20201031_1440	2020-11-18 12:33:47.479844+03
22	autos	0004_auto_20201031_1730	2020-11-18 12:33:47.597047+03
23	autos	0005_auto_20201102_1747	2020-11-18 12:33:48.103816+03
24	autos	0006_auto_20201102_1800	2020-11-18 12:33:48.44786+03
25	autos	0007_auto_20201102_1815	2020-11-18 12:33:48.705528+03
26	autos	0008_auto_20201102_1825	2020-11-18 12:33:48.935779+03
27	autos	0009_auto_20201104_1713	2020-11-18 12:33:49.014808+03
28	autos	0010_auto_20201106_1613	2020-11-18 12:33:49.095894+03
29	autos	0011_filter_user	2020-11-18 12:33:49.172756+03
30	autos	0012_auto_20201108_1547	2020-11-18 12:33:49.614957+03
31	autos	0013_delete_filter	2020-11-18 12:33:49.659124+03
32	autos	0014_auto_20201108_2032	2020-11-18 12:33:49.764683+03


```
33  bot      0002_auto_20201108_1558  2020-11-18 12:33:49.976968+03
37  rest_framework_api_key  0001_initial  2020-11-18 12:33:51.30075+03
38  rest_framework_api_key  0002_auto_20190529_2243  2020-11-18 12:33:51.485913+03
39  rest_framework_api_key  0003_auto_20190623_1952  2020-11-18 12:33:51.522444+03
40  rest_framework_api_key  0004_prefix_hashed_key  2020-11-18 12:33:51.778778+03
41  sessions      0001_initial  2020-11-18 12:33:52.002403+03
```

\\.

--

-- Data for Name: django_session; Type: TABLE DATA; Schema: public; Owner: student

--

COPY public.django_session (session_key, session_data, expire_date) FROM stdin;

```
eqlr8ow5o7dxq2h7gi3hi2ekijkwzir9.eJxVjEEOgjAQRe_StWlmSmGsS_ecoRk6U4saSCisjHdXEh
a6_e-9_zKRt7XEreosRzEXg-b0uw2cHjrtQO483Wab5mldxsHuij1otf0s-rwe7t9B4Vq-
dcaWSMVrUmbIFLjjTKkDH86t-jZTE5rGYQgo6gAYHA5CCREBUMW8P-
2GN5A:1kfJtE:dND8FXvIqgnV0AbmJqVNzDyEn1san4rJ69ctYBDGBNw      2020-12-02
12:36:36.53953+03
```

\\.

--

-- Data for Name: rest_framework_api_key_apikey; Type: TABLE DATA; Schema: public; Owner: student

--

COPY public.rest_framework_api_key_apikey (id, created, name, revoked, expiry_date, hashed_key, prefix) FROM stdin;

\\.

--

-- Name: auth_group_id_seq; Type: SEQUENCE SET; Schema: public; Owner: student

--

SELECT pg_catalog.setval('public.auth_group_id_seq', 1, false);

```
--  
-- Name: auth_group_permissions_id_seq; Type: SEQUENCE SET; Schema: public; Owner:  
student
```

```
--
```

```
SELECT pg_catalog.setval('public.auth_group_permissions_id_seq', 1, false);
```

```
--
```

```
-- Name: auth_permission_id_seq; Type: SEQUENCE SET; Schema: public; Owner: student
```

```
--
```

```
SELECT pg_catalog.setval('public.auth_permission_id_seq', 52, true);
```

```
--
```

```
-- Name: auth_user_groups_id_seq; Type: SEQUENCE SET; Schema: public; Owner: student
```

```
--
```

```
SELECT pg_catalog.setval('public.auth_user_groups_id_seq', 1, false);
```

```
--
```

```
-- Name: auth_user_id_seq; Type: SEQUENCE SET; Schema: public; Owner: student
```

```
--
```

```
SELECT pg_catalog.setval('public.auth_user_id_seq', 1, true);
```

```
--
```

```
-- Name: auth_user_user_permissions_id_seq; Type: SEQUENCE SET; Schema: public; Owner:  
student
```

```
--
```

```
SELECT pg_catalog.setval('public.auth_user_user_permissions_id_seq', 1, false);
```

```
--
```

```
-- Name: bot_user_id_seq; Type: SEQUENCE SET; Schema: public; Owner: student
```

```
--
```

```
SELECT pg_catalog.setval('public.bot_user_id_seq', 1, false);
```

```
--
```

```
-- Name: django_admin_log_id_seq; Type: SEQUENCE SET; Schema: public; Owner: student
```

```
--
```

```
SELECT pg_catalog.setval('public.django_admin_log_id_seq', 1, false);
```

```
--
```

```
-- Name: django_content_type_id_seq; Type: SEQUENCE SET; Schema: public; Owner: student
```

```
--
```

```
SELECT pg_catalog.setval('public.django_content_type_id_seq', 13, true);
```

```
--
```

```
-- Name: django_migrations_id_seq; Type: SEQUENCE SET; Schema: public; Owner: student
```

```
--
```

```
SELECT pg_catalog.setval('public.django_migrations_id_seq', 41, true);
```

```
--
```

```
-- Name: auth_group_auth_group_name_key; Type: CONSTRAINT; Schema: public; Owner: student
```

```
--
```

ALTER TABLE ONLY public.auth_group

ADD CONSTRAINT auth_group_name_key UNIQUE (name);

--

-- Name: auth_group_permissions

auth_group_permissions_group_id_permission_id_0cd325b0_uniq; Type: CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.auth_group_permissions

ADD CONSTRAINT auth_group_permissions_group_id_permission_id_0cd325b0_uniq
UNIQUE (group_id, permission_id);

--

-- Name: auth_group_permissions auth_group_permissions_pkey; Type: CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.auth_group_permissions

ADD CONSTRAINT auth_group_permissions_pkey PRIMARY KEY (id);

--

-- Name: auth_group auth_group_pkey; Type: CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.auth_group

ADD CONSTRAINT auth_group_pkey PRIMARY KEY (id);

--

-- Name: auth_permission auth_permission_content_type_id_codename_01ab375a_uniq; Type: CONSTRAINT; Schema: public; Owner: student

--

```
ALTER TABLE ONLY public.auth_permission
```

```
    ADD CONSTRAINT auth_permission_content_type_id_codename_01ab375a_uniq UNIQUE  
(content_type_id, codename);
```

```
--
```

```
-- Name: auth_permission auth_permission_pkey; Type: CONSTRAINT; Schema: public; Owner:  
student
```

```
--
```

```
ALTER TABLE ONLY public.auth_permission
```

```
    ADD CONSTRAINT auth_permission_pkey PRIMARY KEY (id);
```

```
--
```

```
-- Name: auth_user_groups auth_user_groups_pkey; Type: CONSTRAINT; Schema: public;  
Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.auth_user_groups
```

```
    ADD CONSTRAINT auth_user_groups_pkey PRIMARY KEY (id);
```

```
--
```

```
-- Name: auth_user_groups auth_user_groups_user_id_group_id_94350c0c_uniq; Type:  
CONSTRAINT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.auth_user_groups
```

```
    ADD CONSTRAINT auth_user_groups_user_id_group_id_94350c0c_uniq UNIQUE (user_id,  
group_id);
```

```
--
```

```
-- Name: auth_user auth_user_pkey; Type: CONSTRAINT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.auth_user
```

```
ADD CONSTRAINT auth_user_pkey PRIMARY KEY (id);
```

```
--
```

```
-- Name: auth_user_user_permissions auth_user_user_permissions_pkey; Type: CONSTRAINT;  
Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.auth_user_user_permissions
```

```
ADD CONSTRAINT auth_user_user_permissions_pkey PRIMARY KEY (id);
```

```
--
```

```
-- Name: auth_user_user_permissions  
auth_user_user_permissions_user_id_permission_id_14a6b632_uniq; Type: CONSTRAINT;  
Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.auth_user_user_permissions
```

```
ADD CONSTRAINT auth_user_user_permissions_user_id_permission_id_14a6b632_uniq  
UNIQUE (user_id, permission_id);
```

```
--
```

```
-- Name: auth_user auth_user_username_key; Type: CONSTRAINT; Schema: public; Owner:  
student
```

```
--
```

```
ALTER TABLE ONLY public.auth_user
```

```
ADD CONSTRAINT auth_user_username_key UNIQUE (username);
```

```
--
```

```
-- Name: bot_user bot_user_pkey; Type: CONSTRAINT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.bot_user
```

```
    ADD CONSTRAINT bot_user_pkey PRIMARY KEY (id);
```

```
--
```

```
-- Name: bot_user bot_user_telegram_id_key; Type: CONSTRAINT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.bot_user
```

```
    ADD CONSTRAINT bot_user_telegram_id_key UNIQUE (telegram_id);
```

```
--
```

```
-- Name: django_admin_log django_admin_log_pkey; Type: CONSTRAINT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.django_admin_log
```

```
    ADD CONSTRAINT django_admin_log_pkey PRIMARY KEY (id);
```

```
--
```

```
-- Name: django_content_type django_content_type_app_label_model_76bd3d3b_uniq; Type: CONSTRAINT; Schema: public; Owner: student
```

```
--
```

```
ALTER TABLE ONLY public.django_content_type
```

```
    ADD CONSTRAINT django_content_type_app_label_model_76bd3d3b_uniq UNIQUE (app_label, model);
```

```
--
```

```
-- Name: django_content_type django_content_type_pkey; Type: CONSTRAINT; Schema: public; Owner: student
```

```
--
```

```

ALTER TABLE ONLY public.django_content_type
    ADD CONSTRAINT django_content_type_pkey PRIMARY KEY (id);
--
-- Name: django_migrations django_migrations_pkey; Type: CONSTRAINT; Schema: public;
Owner: student
--
ALTER TABLE ONLY public.django_migrations
    ADD CONSTRAINT django_migrations_pkey PRIMARY KEY (id);
--
-- Name: django_session django_session_pkey; Type: CONSTRAINT; Schema: public; Owner:
student
--

ALTER TABLE ONLY public.django_session
    ADD CONSTRAINT django_session_pkey PRIMARY KEY (session_key);
--
-- Name: rest_framework_api_key_apikey rest_framework_api_key_apikey_pkey; Type:
CONSTRAINT; Schema: public; Owner: student
--

ALTER TABLE ONLY public.rest_framework_api_key_apikey
    ADD CONSTRAINT rest_framework_api_key_apikey_pkey PRIMARY KEY (id);
--
-- Name: rest_framework_api_key_apikey rest_framework_api_key_apikey_prefix_key; Type:
CONSTRAINT; Schema: public; Owner: student
--

ALTER TABLE ONLY public.rest_framework_api_key_apikey
    ADD CONSTRAINT rest_framework_api_key_apikey_prefix_key UNIQUE (prefix);
--
-- Name: auth_group_name_a6ea08ec_like; Type: INDEX; Schema: public; Owner: student
--

CREATE INDEX auth_group_name_a6ea08ec_like ON public.auth_group USING btree (name
varchar_pattern_ops);
--
-- Name: auth_group_permissions_group_id_b120cbf9; Type: INDEX; Schema: public; Owner:
student

```


--

```
CREATE INDEX auth_group_permissions_group_id_b120cbf9 ON public.auth_group_permissions
USING btree (group_id);
```

--

```
-- Name: auth_group_permissions_permission_id_84c5c92e; Type: INDEX; Schema: public;
Owner: student
```

--

```
CREATE INDEX auth_group_permissions_permission_id_84c5c92e ON
public.auth_group_permissions USING btree (permission_id);
```

--

```
-- Name: auth_permission_content_type_id_2f476e4b; Type: INDEX; Schema: public; Owner:
student
```

--

```
CREATE INDEX auth_permission_content_type_id_2f476e4b ON public.auth_permission USING
btree (content_type_id);
```

--

```
-- Name: auth_user_groups_group_id_97559544; Type: INDEX; Schema: public; Owner: student
```

--

```
CREATE INDEX auth_user_groups_group_id_97559544 ON public.auth_user_groups USING
btree (group_id);
```

--

```
-- Name: auth_user_groups_user_id_6a12ed8b; Type: INDEX; Schema: public; Owner: student
```

--

```
CREATE INDEX auth_user_groups_user_id_6a12ed8b ON public.auth_user_groups USING btree
(user_id);
```

--

```
-- Name: auth_user_user_permissions_permission_id_1fbb5f2c; Type: INDEX; Schema: public;
Owner: student
```

--

```
CREATE INDEX auth_user_user_permissions_permission_id_1fbb5f2c ON  
public.auth_user_user_permissions USING btree (permission_id);
```

```
--
```

```
-- Name: auth_user_user_permissions_user_id_a95ead1b; Type: INDEX; Schema: public; Owner:  
student
```

```
--
```

```
CREATE INDEX auth_user_user_permissions_user_id_a95ead1b ON  
public.auth_user_user_permissions USING btree (user_id);
```

```
--
```

```
-- Name: auth_user_username_6821ab7c_like; Type: INDEX; Schema: public; Owner: student
```

```
--
```

```
CREATE INDEX auth_user_username_6821ab7c_like ON public.auth_user USING btree  
(username varchar_pattern_ops);
```

```
--
```

```
-- Name: django_admin_log_content_type_id_c4bce8eb; Type: INDEX; Schema: public; Owner:  
student
```

```
--
```

```
CREATE INDEX django_admin_log_content_type_id_c4bce8eb ON public.django_admin_log  
USING btree (content_type_id);
```

```
--
```

```
-- Name: django_admin_log_user_id_c564eba6; Type: INDEX; Schema: public; Owner: student
```

```
--
```

```
CREATE INDEX django_admin_log_user_id_c564eba6 ON public.django_admin_log USING  
btree (user_id);
```

--

-- Name: django_session_expire_date_a5c62663; Type: INDEX; Schema: public; Owner: student

--

CREATE INDEX django_session_expire_date_a5c62663 ON public.django_session USING btree (expire_date);

--

-- Name: django_session_session_key_c0390e0f_like; Type: INDEX; Schema: public; Owner: student

--

CREATE INDEX django_session_session_key_c0390e0f_like ON public.django_session USING btree (session_key varchar_pattern_ops);

--

-- Name: rest_framework_api_key_apikey_created_c61872d9; Type: INDEX; Schema: public; Owner: student

--

CREATE INDEX rest_framework_api_key_apikey_created_c61872d9 ON public.rest_framework_api_key_apikey USING btree (created);

--

-- Name: rest_framework_api_key_apikey_id_6e07e68e_like; Type: INDEX; Schema: public; Owner: student

--

CREATE INDEX rest_framework_api_key_apikey_id_6e07e68e_like ON public.rest_framework_api_key_apikey USING btree (id varchar_pattern_ops);

--

-- Name: rest_framework_api_key_apikey_prefix_4e0db5f8_like; Type: INDEX; Schema: public;
Owner: student

--

CREATE INDEX rest_framework_api_key_apikey_prefix_4e0db5f8_like ON
public.rest_framework_api_key_apikey USING btree (prefix varchar_pattern_ops);

--

-- Name: auth_group_permissions auth_group_permission_id_84c5c92e_fk_auth_perm;
Type: FK CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.auth_group_permissions

ADD CONSTRAINT auth_group_permission_id_84c5c92e_fk_auth_perm FOREIGN
KEY (permission_id) REFERENCES public.auth_permission(id) DEFERRABLE INITIALLY
DEFERRED;

--

-- Name: auth_group_permissions auth_group_permissions_group_id_b120cbf9_fk_auth_group_id;
Type: FK CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.auth_group_permissions

ADD CONSTRAINT auth_group_permissions_group_id_b120cbf9_fk_auth_group_id
FOREIGN KEY (group_id) REFERENCES public.auth_group(id) DEFERRABLE INITIALLY
DEFERRED;

--

-- Name: auth_permission auth_permission_content_type_id_2f476e4b_fk_django_co; Type: FK
CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.auth_permission

ADD CONSTRAINT auth_permission_content_type_id_2f476e4b_fk_django_co FOREIGN
KEY (content_type_id) REFERENCES public.django_content_type(id) DEFERRABLE
INITIALLY DEFERRED;

--

-- Name: auth_user_groups_auth_user_groups_group_id_97559544_fk_auth_group_id; Type: FK
CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.auth_user_groups

ADD CONSTRAINT auth_user_groups_group_id_97559544_fk_auth_group_id FOREIGN
KEY (group_id) REFERENCES public.auth_group(id) DEFERRABLE INITIALLY DEFERRED;

--

-- Name: auth_user_groups_auth_user_groups_user_id_6a12ed8b_fk_auth_user_id; Type: FK
CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.auth_user_groups

ADD CONSTRAINT auth_user_groups_user_id_6a12ed8b_fk_auth_user_id FOREIGN KEY
(user_id) REFERENCES public.auth_user(id) DEFERRABLE INITIALLY DEFERRED;

--

-- Name: auth_user_user_permissions
auth_user_user_permi_permission_id_1fbb5f2c_fk_auth_perm; Type: FK CONSTRAINT; Schema:
public; Owner: student

--

ALTER TABLE ONLY public.auth_user_user_permissions

ADD CONSTRAINT auth_user_user_permi_permission_id_1fbb5f2c_fk_auth_perm FOREIGN
KEY (permission_id) REFERENCES public.auth_permission(id) DEFERRABLE INITIALLY
DEFERRED;

--

-- Name: auth_user_user_permissions
auth_user_user_permissions_user_id_a95ead1b_fk_auth_user_id; Type: FK CONSTRAINT;
Schema: public; Owner: student

--

ALTER TABLE ONLY public.auth_user_user_permissions

ADD CONSTRAINT auth_user_user_permissions_user_id_a95ead1b_fk_auth_user_id
FOREIGN KEY (user_id) REFERENCES public.auth_user(id) DEFERRABLE INITIALLY
DEFERRED;

--

-- Name: django_admin_log django_admin_log_content_type_id_c4bce8eb_fk_django_co; Type:
FK CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.django_admin_log

ADD CONSTRAINT django_admin_log_content_type_id_c4bce8eb_fk_django_co FOREIGN
KEY (content_type_id) REFERENCES public.django_content_type(id) DEFERRABLE
INITIALLY DEFERRED;

--

-- Name: django_admin_log django_admin_log_user_id_c564eba6_fk_auth_user_id; Type: FK
CONSTRAINT; Schema: public; Owner: student

--

ALTER TABLE ONLY public.django_admin_log

ADD CONSTRAINT django_admin_log_user_id_c564eba6_fk_auth_user_id FOREIGN KEY
(user_id) REFERENCES public.auth_user(id) DEFERRABLE INITIALLY DEFERRED;

--

-- PostgreSQL database dump complete

--