Министерство науки и высшего образования Российской Федерации

Федеральное государственное автономное образовательное учреждение высшего образования

«НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО»

Факультет инфокоммуникационных технологий

**ОТЧЕТ**

**О ЛАБОРАТОРНОЙ РАБОТЕ № 3**

по теме: АНАЛИЗ ДАННЫХ. ПОСТРОЕНИЕ ИНФОЛОГИЧЕСКОЙ МОДЕЛИ ДАННЫХ БД

по дисциплине: Проектирование и реализация баз данных

**Специальность**:

09.03.03 Мобильные и сетевые технологии

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| **Проверил**:  Говорова М.М. \_\_\_\_\_\_\_\_\_\_  **Дата**: «\_\_» \_\_\_\_ 2021 г.  Оценка \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Выполнил**:  студент группы K3241  Матрохина А.С. |

Санкт-Петербург 2021 г.

1. **Цель работы**

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

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

Указание:

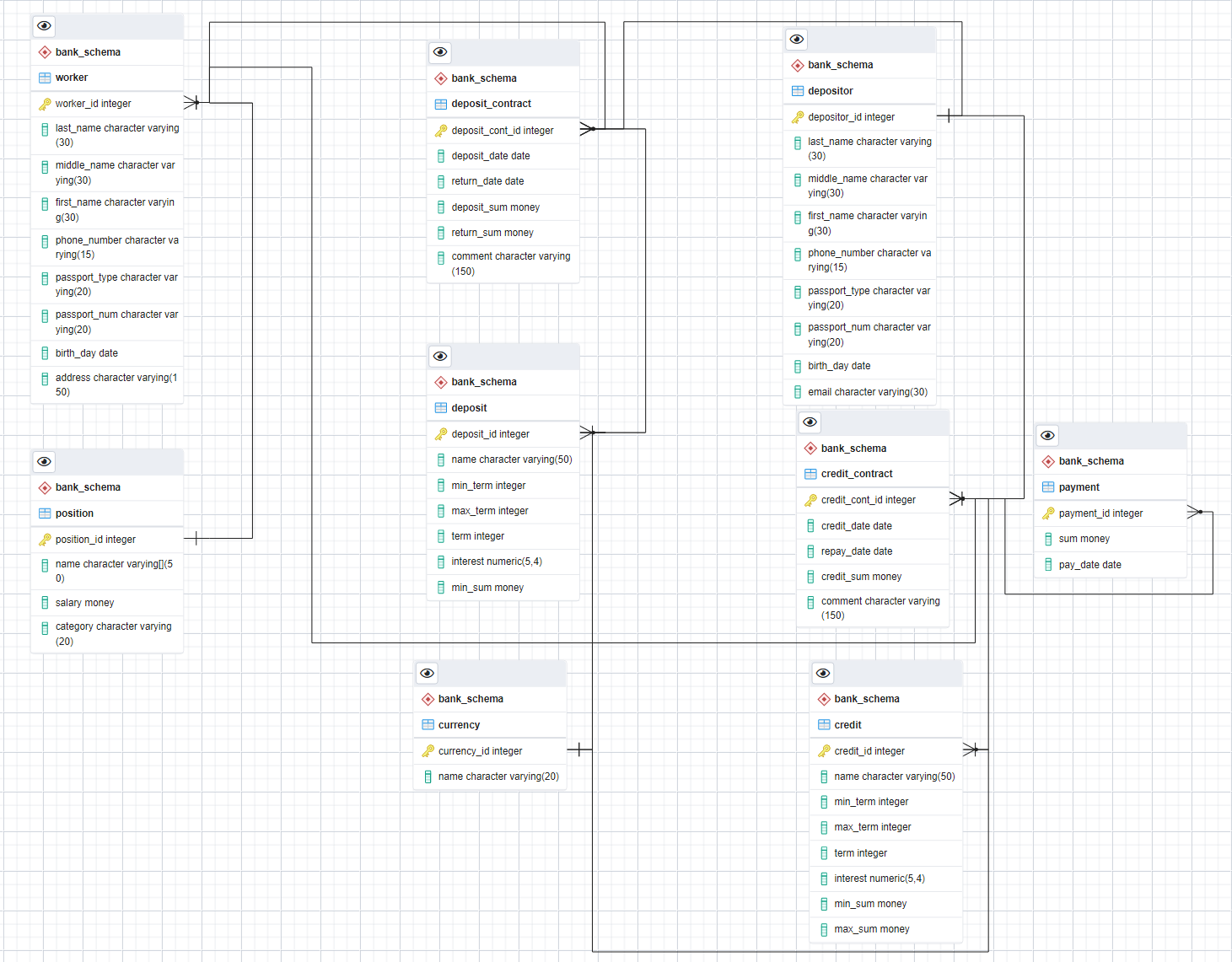
Создать две резервные копии:

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

1. Восстановить БД.
2. **Выполнение**
3. Название создаваемой БД.

“bank”

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



(рис. 1 схема)

1. Dump, содержащий скрипты работы с БД.

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| --- |
| -- -- PostgreSQL database dump --  -- Dumped from database version 13.2 -- Dumped by pg\_dump version 13.2  -- Started on 2021-06-11 10:32:00  SET statement\_timeout = 0; SET lock\_timeout = 0; SET idle\_in\_transaction\_session\_timeout = 0; SET client\_encoding = 'UTF8'; SET standard\_conforming\_strings = on; SELECT pg\_catalog.set\_config('search\_path', '', false); SET check\_function\_bodies = false; SET xmloption = content; SET client\_min\_messages = warning; SET row\_security = off;  -- -- TOC entry 3113 (class 1262 OID 32902) -- Name: bank; Type: DATABASE; Schema: -; Owner: postgres --  CREATE DATABASE bank WITH TEMPLATE = template0 ENCODING = 'UTF8' LOCALE = 'Russian\_Russia.1251';   ALTER DATABASE bank OWNER TO postgres;  \connect bank  SET statement\_timeout = 0; SET lock\_timeout = 0; SET idle\_in\_transaction\_session\_timeout = 0; SET client\_encoding = 'UTF8'; SET standard\_conforming\_strings = on; SELECT pg\_catalog.set\_config('search\_path', '', false); SET check\_function\_bodies = false; SET xmloption = content; SET client\_min\_messages = warning; SET row\_security = off;  -- -- TOC entry 6 (class 2615 OID 32903) -- Name: bank\_schema; Type: SCHEMA; Schema: -; Owner: postgres --  CREATE SCHEMA bank\_schema;   ALTER SCHEMA bank\_schema OWNER TO postgres;  SET default\_tablespace = '';  SET default\_table\_access\_method = heap;  -- -- TOC entry 212 (class 1259 OID 33005) -- Name: credit; Type: TABLE; Schema: bank\_schema; Owner: postgres --  CREATE TABLE bank\_schema.credit (  credit\_id integer NOT NULL,  name character varying(50) NOT NULL,  min\_term integer,  max\_term integer,  term integer NOT NULL,  interest numeric(5,4) NOT NULL,  min\_sum money,  max\_sum money,  currency\_id integer NOT NULL );   ALTER TABLE bank\_schema.credit OWNER TO postgres;  -- -- TOC entry 208 (class 1259 OID 32986) -- Name: credit\_contract; Type: TABLE; Schema: bank\_schema; Owner: postgres --  CREATE TABLE bank\_schema.credit\_contract (  credit\_cont\_id integer NOT NULL,  credit\_date date NOT NULL,  repay\_date date NOT NULL,  credit\_sum money NOT NULL,  comment character varying(150),  credit\_id integer NOT NULL,  depositor\_id integer NOT NULL,  worker\_id integer NOT NULL,  CONSTRAINT credit\_date CHECK ((credit\_date < repay\_date)),  CONSTRAINT repay\_date CHECK ((repay\_date > credit\_date)) );   ALTER TABLE bank\_schema.credit\_contract OWNER TO postgres;  -- -- TOC entry 207 (class 1259 OID 32984) -- Name: credit\_contract\_credit\_cont\_id\_seq; Type: SEQUENCE; Schema: bank\_schema; Owner: postgres --  CREATE SEQUENCE bank\_schema.credit\_contract\_credit\_cont\_id\_seq  AS integer  START WITH 1  INCREMENT BY 1  NO MINVALUE  NO MAXVALUE  CACHE 1;   ALTER TABLE bank\_schema.credit\_contract\_credit\_cont\_id\_seq OWNER TO postgres;  -- -- TOC entry 3114 (class 0 OID 0) -- Dependencies: 207 -- Name: credit\_contract\_credit\_cont\_id\_seq; Type: SEQUENCE OWNED BY; Schema: bank\_schema; Owner: postgres --  ALTER SEQUENCE bank\_schema.credit\_contract\_credit\_cont\_id\_seq OWNED BY bank\_schema.credit\_contract.credit\_cont\_id;   -- -- TOC entry 211 (class 1259 OID 33003) -- Name: credit\_credit\_id\_seq; Type: SEQUENCE; Schema: bank\_schema; Owner: postgres --  CREATE SEQUENCE bank\_schema.credit\_credit\_id\_seq  AS integer  START WITH 1  INCREMENT BY 1  NO MINVALUE  NO MAXVALUE  CACHE 1;   ALTER TABLE bank\_schema.credit\_credit\_id\_seq OWNER TO postgres;  -- -- TOC entry 3115 (class 0 OID 0) -- Dependencies: 211 -- Name: credit\_credit\_id\_seq; Type: SEQUENCE OWNED BY; Schema: bank\_schema; Owner: postgres --  ALTER SEQUENCE bank\_schema.credit\_credit\_id\_seq OWNED BY bank\_schema.credit.credit\_id;   -- -- TOC entry 216 (class 1259 OID 33028) -- Name: currency; Type: TABLE; Schema: bank\_schema; Owner: postgres --  CREATE TABLE bank\_schema.currency (  currency\_id integer NOT NULL,  name character varying(20) NOT NULL );   ALTER TABLE bank\_schema.currency OWNER TO postgres;  -- -- TOC entry 215 (class 1259 OID 33026) -- Name: currency\_currency\_id\_seq; Type: SEQUENCE; Schema: bank\_schema; Owner: postgres --  CREATE SEQUENCE bank\_schema.currency\_currency\_id\_seq  AS integer  START WITH 1  INCREMENT BY 1  NO MINVALUE  NO MAXVALUE  CACHE 1;   ALTER TABLE bank\_schema.currency\_currency\_id\_seq OWNER TO postgres;  -- -- TOC entry 3116 (class 0 OID 0) -- Dependencies: 215 -- Name: currency\_currency\_id\_seq; Type: SEQUENCE OWNED BY; Schema: bank\_schema; Owner: postgres --  ALTER SEQUENCE bank\_schema.currency\_currency\_id\_seq OWNED BY bank\_schema.currency.currency\_id;   -- -- TOC entry 210 (class 1259 OID 32996) -- Name: deposit; Type: TABLE; Schema: bank\_schema; Owner: postgres --  CREATE TABLE bank\_schema.deposit (  deposit\_id integer NOT NULL,  name character varying(50) NOT NULL,  min\_term integer,  max\_term integer,  term integer NOT NULL,  interest numeric(5,4) NOT NULL,  min\_sum money,  currency\_id integer NOT NULL,  CONSTRAINT interest CHECK (((interest >= (0)::numeric) AND (interest <= (1)::numeric))) );   ALTER TABLE bank\_schema.deposit OWNER TO postgres;  -- -- TOC entry 206 (class 1259 OID 32976) -- Name: deposit\_contract; Type: TABLE; Schema: bank\_schema; Owner: postgres --  CREATE TABLE bank\_schema.deposit\_contract (  deposit\_cont\_id integer NOT NULL,  deposit\_date date NOT NULL,  return\_date date NOT NULL,  deposit\_sum money NOT NULL,  return\_sum money NOT NULL,  comment character varying(150),  deposit\_id integer NOT NULL,  depositor\_id integer NOT NULL,  worker\_id integer NOT NULL,  CONSTRAINT deposit\_date CHECK ((deposit\_date < return\_date)),  CONSTRAINT return\_date CHECK ((return\_date > deposit\_date)) );   ALTER TABLE bank\_schema.deposit\_contract OWNER TO postgres;  -- -- TOC entry 205 (class 1259 OID 32974) -- Name: deposit\_contract\_deposit\_cont\_id\_seq; Type: SEQUENCE; Schema: bank\_schema; Owner: postgres --  CREATE SEQUENCE bank\_schema.deposit\_contract\_deposit\_cont\_id\_seq  AS integer  START WITH 1  INCREMENT BY 1  NO MINVALUE  NO MAXVALUE  CACHE 1;   ALTER TABLE bank\_schema.deposit\_contract\_deposit\_cont\_id\_seq OWNER TO postgres;  -- -- TOC entry 3117 (class 0 OID 0) -- Dependencies: 205 -- Name: deposit\_contract\_deposit\_cont\_id\_seq; Type: SEQUENCE OWNED BY; Schema: bank\_schema; Owner: postgres --  ALTER SEQUENCE bank\_schema.deposit\_contract\_deposit\_cont\_id\_seq OWNED BY bank\_schema.deposit\_contract.deposit\_cont\_id;   -- -- TOC entry 209 (class 1259 OID 32994) -- Name: deposit\_deposit\_id\_seq; Type: SEQUENCE; Schema: bank\_schema; Owner: postgres --  CREATE SEQUENCE bank\_schema.deposit\_deposit\_id\_seq  AS integer  START WITH 1  INCREMENT BY 1  NO MINVALUE  NO MAXVALUE  CACHE 1;   ALTER TABLE bank\_schema.deposit\_deposit\_id\_seq OWNER TO postgres;  -- -- TOC entry 3118 (class 0 OID 0) -- Dependencies: 209 -- Name: deposit\_deposit\_id\_seq; Type: SEQUENCE OWNED BY; Schema: bank\_schema; Owner: postgres --  ALTER SEQUENCE bank\_schema.deposit\_deposit\_id\_seq OWNED BY bank\_schema.deposit.deposit\_id;   -- -- TOC entry 204 (class 1259 OID 32938) -- Name: depositor; Type: TABLE; Schema: bank\_schema; Owner: postgres --  CREATE TABLE bank\_schema.depositor (  depositor\_id integer NOT NULL,  last\_name character varying(30) NOT NULL,  middle\_name character varying(30) NOT NULL,  first\_name character varying(30) NOT NULL,  phone\_number character varying(15),  passport\_type character varying(20) NOT NULL,  passport\_num character varying(20) NOT NULL,  birth\_day date NOT NULL,  email character varying(30) NOT NULL );   ALTER TABLE bank\_schema.depositor OWNER TO postgres;  -- -- TOC entry 203 (class 1259 OID 32936) -- Name: depositor\_depositor\_id\_seq; Type: SEQUENCE; Schema: bank\_schema; Owner: postgres --  CREATE SEQUENCE bank\_schema.depositor\_depositor\_id\_seq  AS integer  START WITH 1  INCREMENT BY 1  NO MINVALUE  NO MAXVALUE  CACHE 1;   ALTER TABLE bank\_schema.depositor\_depositor\_id\_seq OWNER TO postgres;  -- -- TOC entry 3119 (class 0 OID 0) -- Dependencies: 203 -- Name: depositor\_depositor\_id\_seq; Type: SEQUENCE OWNED BY; Schema: bank\_schema; Owner: postgres --  ALTER SEQUENCE bank\_schema.depositor\_depositor\_id\_seq OWNED BY bank\_schema.depositor.depositor\_id;   -- -- TOC entry 214 (class 1259 OID 33020) -- Name: payment; Type: TABLE; Schema: bank\_schema; Owner: postgres --  CREATE TABLE bank\_schema.payment (  payment\_id integer NOT NULL,  sum money NOT NULL,  pay\_date date NOT NULL,  credit\_cont\_id integer NOT NULL );   ALTER TABLE bank\_schema.payment OWNER TO postgres;  -- -- TOC entry 213 (class 1259 OID 33018) -- Name: payment\_payment\_id\_seq; Type: SEQUENCE; Schema: bank\_schema; Owner: postgres --  CREATE SEQUENCE bank\_schema.payment\_payment\_id\_seq  AS integer  START WITH 1  INCREMENT BY 1  NO MINVALUE  NO MAXVALUE  CACHE 1;   ALTER TABLE bank\_schema.payment\_payment\_id\_seq OWNER TO postgres;  -- -- TOC entry 3120 (class 0 OID 0) -- Dependencies: 213 -- Name: payment\_payment\_id\_seq; Type: SEQUENCE OWNED BY; Schema: bank\_schema; Owner: postgres --  ALTER SEQUENCE bank\_schema.payment\_payment\_id\_seq OWNED BY bank\_schema.payment.payment\_id;   -- -- TOC entry 218 (class 1259 OID 33089) -- Name: position; Type: TABLE; Schema: bank\_schema; Owner: postgres --  CREATE TABLE bank\_schema."position" (  position\_id integer NOT NULL,  name character varying(50) NOT NULL,  salary money NOT NULL,  category character varying(20),  CONSTRAINT category CHECK (((category)::text = ANY (ARRAY['First'::text, 'Second'::text, 'Third'::text, 'Fourth'::text]))) );   ALTER TABLE bank\_schema."position" OWNER TO postgres;  -- -- TOC entry 217 (class 1259 OID 33087) -- Name: position\_position\_id\_seq; Type: SEQUENCE; Schema: bank\_schema; Owner: postgres --  CREATE SEQUENCE bank\_schema.position\_position\_id\_seq  AS integer  START WITH 1  INCREMENT BY 1  NO MINVALUE  NO MAXVALUE  CACHE 1;   ALTER TABLE bank\_schema.position\_position\_id\_seq OWNER TO postgres;  -- -- TOC entry 3121 (class 0 OID 0) -- Dependencies: 217 -- Name: position\_position\_id\_seq; Type: SEQUENCE OWNED BY; Schema: bank\_schema; Owner: postgres --  ALTER SEQUENCE bank\_schema.position\_position\_id\_seq OWNED BY bank\_schema."position".position\_id;   -- -- TOC entry 202 (class 1259 OID 32925) -- Name: worker; Type: TABLE; Schema: bank\_schema; Owner: postgres --  CREATE TABLE bank\_schema.worker (  worker\_id integer NOT NULL,  last\_name character varying(30) NOT NULL,  middle\_name character varying(30) NOT NULL,  first\_name character varying(30) NOT NULL,  phone\_number character varying(15),  passport\_type character varying(20) NOT NULL,  passport\_num character varying(20) NOT NULL,  birth\_day date NOT NULL,  address character varying(150) NOT NULL,  position\_id integer NOT NULL );   ALTER TABLE bank\_schema.worker OWNER TO postgres;  -- -- TOC entry 201 (class 1259 OID 32923) -- Name: worker\_worker\_id\_seq; Type: SEQUENCE; Schema: bank\_schema; Owner: postgres --  CREATE SEQUENCE bank\_schema.worker\_worker\_id\_seq  AS integer  START WITH 1  INCREMENT BY 1  NO MINVALUE  NO MAXVALUE  CACHE 1;   ALTER TABLE bank\_schema.worker\_worker\_id\_seq OWNER TO postgres;  -- -- TOC entry 3122 (class 0 OID 0) -- Dependencies: 201 -- Name: worker\_worker\_id\_seq; Type: SEQUENCE OWNED BY; Schema: bank\_schema; Owner: postgres --  ALTER SEQUENCE bank\_schema.worker\_worker\_id\_seq OWNED BY bank\_schema.worker.worker\_id;   -- -- TOC entry 2923 (class 2604 OID 33008) -- Name: credit credit\_id; Type: DEFAULT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.credit ALTER COLUMN credit\_id SET DEFAULT nextval('bank\_schema.credit\_credit\_id\_seq'::regclass);   -- -- TOC entry 2915 (class 2604 OID 32989) -- Name: credit\_contract credit\_cont\_id; Type: DEFAULT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.credit\_contract ALTER COLUMN credit\_cont\_id SET DEFAULT nextval('bank\_schema.credit\_contract\_credit\_cont\_id\_seq'::regclass);   -- -- TOC entry 2929 (class 2604 OID 33031) -- Name: currency currency\_id; Type: DEFAULT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.currency ALTER COLUMN currency\_id SET DEFAULT nextval('bank\_schema.currency\_currency\_id\_seq'::regclass);   -- -- TOC entry 2918 (class 2604 OID 32999) -- Name: deposit deposit\_id; Type: DEFAULT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.deposit ALTER COLUMN deposit\_id SET DEFAULT nextval('bank\_schema.deposit\_deposit\_id\_seq'::regclass);   -- -- TOC entry 2912 (class 2604 OID 32979) -- Name: deposit\_contract deposit\_cont\_id; Type: DEFAULT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.deposit\_contract ALTER COLUMN deposit\_cont\_id SET DEFAULT nextval('bank\_schema.deposit\_contract\_deposit\_cont\_id\_seq'::regclass);   -- -- TOC entry 2905 (class 2604 OID 32941) -- Name: depositor depositor\_id; Type: DEFAULT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.depositor ALTER COLUMN depositor\_id SET DEFAULT nextval('bank\_schema.depositor\_depositor\_id\_seq'::regclass);   -- -- TOC entry 2928 (class 2604 OID 33023) -- Name: payment payment\_id; Type: DEFAULT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.payment ALTER COLUMN payment\_id SET DEFAULT nextval('bank\_schema.payment\_payment\_id\_seq'::regclass);   -- -- TOC entry 2930 (class 2604 OID 33092) -- Name: position position\_id; Type: DEFAULT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema."position" ALTER COLUMN position\_id SET DEFAULT nextval('bank\_schema.position\_position\_id\_seq'::regclass);   -- -- TOC entry 2899 (class 2604 OID 32928) -- Name: worker worker\_id; Type: DEFAULT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.worker ALTER COLUMN worker\_id SET DEFAULT nextval('bank\_schema.worker\_worker\_id\_seq'::regclass);   -- -- TOC entry 3101 (class 0 OID 33005) -- Dependencies: 212 -- Data for Name: credit; Type: TABLE DATA; Schema: bank\_schema; Owner: postgres --  INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (1, 'Phegopteris hexagonoptera (Michx.) Fée', 48, 150, 98, 0.1400, '53 020,00 ?', '1 881 408,00 ?', 2); INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (2, 'Strophanthus kombe Oliv.', 56, 127, 73, 0.0900, '80 183,00 ?', '2 507 405,00 ?', 1); INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (3, 'Trifolium dubium Sibth.', 51, 141, 98, 0.1500, '76 427,00 ?', '3 585 127,00 ?', 2); INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (4, 'Prosopis L.', 51, 136, 97, 0.1300, '27 727,00 ?', '4 451 048,00 ?', 1); INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (5, 'Myriotrema laeviusculum (Nyl.) Hale', 43, 142, 83, 0.1600, '47 013,00 ?', '2 515 752,00 ?', 2); INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (6, 'Digitaria exilis (Kippist) Stapf', 47, 126, 75, 0.0900, '36 389,00 ?', '2 554 289,00 ?', 3); INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (7, 'Viburnum recognitum Fernald', 53, 126, 90, 0.1900, '29 543,00 ?', '1 521 699,00 ?', 1); INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (8, 'Lomatium nuttallii (A. Gray) J.F. Macbr.', 42, 129, 100, 0.0700, '38 199,00 ?', '2 719 743,00 ?', 3); INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (9, 'Dicentra Bernh.', 41, 128, 72, 0.1700, '26 749,00 ?', '2 013 360,00 ?', 2); INSERT INTO bank\_schema.credit (credit\_id, name, min\_term, max\_term, term, interest, min\_sum, max\_sum, currency\_id) VALUES (10, 'Eutrochium maculatum (L.) E.E. Lamont', 53, 126, 77, 0.1000, '72 295,00 ?', '3 524 090,00 ?', 1);   -- -- TOC entry 3097 (class 0 OID 32986) -- Dependencies: 208 -- Data for Name: credit\_contract; Type: TABLE DATA; Schema: bank\_schema; Owner: postgres --  INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (1, '2021-04-21', '2021-06-16', '109 401,00 ?', NULL, 10, 1, 4); INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (2, '2021-04-10', '2021-06-19', '104 932,00 ?', NULL, 5, 6, 5); INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (3, '2021-04-07', '2021-06-07', '112 048,00 ?', NULL, 3, 6, 1); INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (4, '2021-04-01', '2021-06-29', '103 325,00 ?', NULL, 5, 1, 4); INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (5, '2021-04-28', '2021-06-04', '100 235,00 ?', NULL, 3, 10, 6); INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (6, '2021-04-15', '2021-06-05', '113 956,00 ?', NULL, 3, 7, 1); INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (7, '2021-04-12', '2021-06-17', '108 445,00 ?', NULL, 3, 9, 5); INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (8, '2021-04-04', '2021-06-29', '120 077,00 ?', NULL, 2, 4, 5); INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (9, '2021-04-10', '2021-06-27', '124 369,00 ?', NULL, 7, 7, 5); INSERT INTO bank\_schema.credit\_contract (credit\_cont\_id, credit\_date, repay\_date, credit\_sum, comment, credit\_id, depositor\_id, worker\_id) VALUES (10, '2021-04-15', '2021-06-24', '113 100,00 ?', NULL, 3, 4, 3);   -- -- TOC entry 3105 (class 0 OID 33028) -- Dependencies: 216 -- Data for Name: currency; Type: TABLE DATA; Schema: bank\_schema; Owner: postgres --  INSERT INTO bank\_schema.currency (currency\_id, name) VALUES (1, 'Rubbles'); INSERT INTO bank\_schema.currency (currency\_id, name) VALUES (2, 'Dollars'); INSERT INTO bank\_schema.currency (currency\_id, name) VALUES (3, 'Euros');   -- -- TOC entry 3099 (class 0 OID 32996) -- Dependencies: 210 -- Data for Name: deposit; Type: TABLE DATA; Schema: bank\_schema; Owner: postgres --  INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (1, 'Saritaea Dugand', 40, 141, 85, 0.1000, '10 000,00 ?', 2); INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (2, 'Dicranella grevilleana (Brid.) Schimp.', 43, 139, 87, 0.0600, '100 000,00 ?', 2); INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (3, 'Calochortus argillosus', 41, 127, 96, 0.0600, '10 000,00 ?', 3); INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (4, 'Smelowskia calycina (Stephan ex Willd.)', 44, 124, 80, 0.0500, '10 000,00 ?', 3); INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (5, 'Phacelia ramosissima Douglas', 50, 130, 84, 0.1200, '10 000,00 ?', 2); INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (6, 'Solidago rugosa Mill', 42, 131, 79, 0.0800, '10 000,00 ?', 1); INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (7, 'Kleinhovia L.', 53, 150, 87, 0.1800, '10 000,00 ?', 2); INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (8, 'Pogonia ophioglossoides (L.) Ker Gawl.', 47, 147, 85, 0.1700, '1 000 000,00 ?', 3); INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (9, 'Rubus prosper L.H. Bailey', 41, 139, 78, 0.0900, '10 000,00 ?', 2); INSERT INTO bank\_schema.deposit (deposit\_id, name, min\_term, max\_term, term, interest, min\_sum, currency\_id) VALUES (10, 'Sorbus L.', 46, 148, 91, 0.0900, '100 000,00 ?', 3);   -- -- TOC entry 3095 (class 0 OID 32976) -- Dependencies: 206 -- Data for Name: deposit\_contract; Type: TABLE DATA; Schema: bank\_schema; Owner: postgres --  INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (1, '2021-04-25', '2021-06-05', '119 132,00 ?', '160 166,00 ?', NULL, 5, 4, 3); INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (2, '2021-04-19', '2021-06-14', '107 771,00 ?', '144 430,00 ?', NULL, 1, 4, 3); INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (3, '2021-04-24', '2021-06-10', '119 166,00 ?', '169 618,00 ?', NULL, 3, 6, 1); INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (4, '2021-04-28', '2021-06-10', '117 397,00 ?', '163 386,00 ?', NULL, 4, 1, 5); INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (5, '2021-04-10', '2021-06-23', '116 346,00 ?', '143 208,00 ?', NULL, 1, 10, 1); INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (6, '2021-04-27', '2021-06-03', '105 991,00 ?', '149 983,00 ?', NULL, 5, 6, 1); INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (7, '2021-04-28', '2021-06-05', '117 739,00 ?', '163 761,00 ?', NULL, 4, 5, 5); INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (8, '2021-04-04', '2021-06-01', '104 927,00 ?', '171 234,00 ?', NULL, 1, 5, 5); INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (9, '2021-04-12', '2021-06-13', '106 469,00 ?', '155 470,00 ?', NULL, 7, 5, 5); INSERT INTO bank\_schema.deposit\_contract (deposit\_cont\_id, deposit\_date, return\_date, deposit\_sum, return\_sum, comment, deposit\_id, depositor\_id, worker\_id) VALUES (10, '2021-04-05', '2021-06-04', '108 321,00 ?', '147 534,00 ?', NULL, 2, 3, 4);   -- -- TOC entry 3093 (class 0 OID 32938) -- Dependencies: 204 -- Data for Name: depositor; Type: TABLE DATA; Schema: bank\_schema; Owner: postgres --  INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (1, 'Buck', 'Patricia', 'Claresta', '+6(887)228-6281', 'RU', '2666235983', '1990-02-01', 'hey@yes.com'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (2, 'Hello', 'Way', 'Aggie', '(246) 8689981', 'EU', '5457342709', '1960-11-02', 'avangeffen0@fotki.com'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (6, 'Thebe', 'Goddard', 'Jenifer', '(105) 7085270', 'Other', '9537623771', '1974-02-22', 'jthebe1@ovh.net'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (7, 'Tomaello', 'Josi', 'Ninetta', '(797) 8036523', 'EU', '1846326479', '1980-07-30', 'ntomaello2@weebly.com'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (8, 'MacPake', 'Austine', 'Delmor', '(548) 8445032', 'RU', '9332691820', '1996-12-30', 'dmacpake3@addthis.com'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (9, 'Shankland', 'Beret', 'Sylvester', '(767) 7370394', 'RU', '6612871669', '1961-03-07', 'sshankland4@51.la'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (3, 'Perigoe', 'Lucky', 'Florian', '(256) 6747601', 'RU', '9694490117', '1994-06-25', 'fperigoe5@huffingtonpost.com'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (4, 'Glackin', 'Morey', 'Gunilla', '(294) 5622413', 'Other', '4312692248', '1962-04-20', 'gglackin6@wikipedia.org'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (5, 'Tallet', 'Maximilian', 'Aime', '(892) 4028472', 'USA', '7356540737', '1971-11-17', 'atallet7@marriott.com'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (10, 'Edney', 'Heida', 'Boothe', '(410) 7803069', 'RU', '2675832227', '1992-04-16', 'bedney8@surveymonkey.com'); INSERT INTO bank\_schema.depositor (depositor\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, email) VALUES (11, 'Arnett', 'Wilbert', 'Jourdain', '(170) 4684487', 'RU', '8098994033', '1965-03-07', 'jarnett9@opensource.org');   -- -- TOC entry 3103 (class 0 OID 33020) -- Dependencies: 214 -- Data for Name: payment; Type: TABLE DATA; Schema: bank\_schema; Owner: postgres --    -- -- TOC entry 3107 (class 0 OID 33089) -- Dependencies: 218 -- Data for Name: position; Type: TABLE DATA; Schema: bank\_schema; Owner: postgres --  INSERT INTO bank\_schema."position" (position\_id, name, salary, category) VALUES (1, 'Manager', '150 000,00 ?', 'First'); INSERT INTO bank\_schema."position" (position\_id, name, salary, category) VALUES (2, 'Manager', '100 000,00 ?', 'Second'); INSERT INTO bank\_schema."position" (position\_id, name, salary, category) VALUES (3, 'Account Manager', '80 000,00 ?', NULL);   -- -- TOC entry 3091 (class 0 OID 32925) -- Dependencies: 202 -- Data for Name: worker; Type: TABLE DATA; Schema: bank\_schema; Owner: postgres --  INSERT INTO bank\_schema.worker (worker\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, address, position\_id) VALUES (1, 'Rubberts', 'Ginni', 'Vilma', '554-310-5157', 'RU', '6189140309', '1938-06-10', '23 Marquette Way', 3); INSERT INTO bank\_schema.worker (worker\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, address, position\_id) VALUES (2, 'Dyka', 'Aura', 'Tanny', '985-601-7178', 'RU', '2078426119', '1966-09-11', '9 Walton Way', 3); INSERT INTO bank\_schema.worker (worker\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, address, position\_id) VALUES (3, 'Howell', 'Cissy', 'Ransell', '449-159-0949', 'RU', '2258661370', '1986-08-31', '9674 Caliangt Trail', 1); INSERT INTO bank\_schema.worker (worker\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, address, position\_id) VALUES (4, 'Beggini', 'Melloney', 'Melvin', '759-658-7228', 'RU', '5732945083', '1994-03-12', '96133 Fair Oaks Plaza', 3); INSERT INTO bank\_schema.worker (worker\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, address, position\_id) VALUES (5, 'Siggens', 'Sauveur', 'Donnamarie', '563-429-1673', 'EU', '2787726285', '1974-03-20', '046 Ridgeway Junction', 3); INSERT INTO bank\_schema.worker (worker\_id, last\_name, middle\_name, first\_name, phone\_number, passport\_type, passport\_num, birth\_day, address, position\_id) VALUES (6, 'Cockroft', 'Vinnie', 'Jules', '501-150-6596', 'RU', 'ABCD252505', '1966-09-11', '61388 Redwing Trail', 2);   -- -- TOC entry 3123 (class 0 OID 0) -- Dependencies: 207 -- Name: credit\_contract\_credit\_cont\_id\_seq; Type: SEQUENCE SET; Schema: bank\_schema; Owner: postgres --  SELECT pg\_catalog.setval('bank\_schema.credit\_contract\_credit\_cont\_id\_seq', 1, false);   -- -- TOC entry 3124 (class 0 OID 0) -- Dependencies: 211 -- Name: credit\_credit\_id\_seq; Type: SEQUENCE SET; Schema: bank\_schema; Owner: postgres --  SELECT pg\_catalog.setval('bank\_schema.credit\_credit\_id\_seq', 1, false);   -- -- TOC entry 3125 (class 0 OID 0) -- Dependencies: 215 -- Name: currency\_currency\_id\_seq; Type: SEQUENCE SET; Schema: bank\_schema; Owner: postgres --  SELECT pg\_catalog.setval('bank\_schema.currency\_currency\_id\_seq', 1, false);   -- -- TOC entry 3126 (class 0 OID 0) -- Dependencies: 205 -- Name: deposit\_contract\_deposit\_cont\_id\_seq; Type: SEQUENCE SET; Schema: bank\_schema; Owner: postgres --  SELECT pg\_catalog.setval('bank\_schema.deposit\_contract\_deposit\_cont\_id\_seq', 1, false);   -- -- TOC entry 3127 (class 0 OID 0) -- Dependencies: 209 -- Name: deposit\_deposit\_id\_seq; Type: SEQUENCE SET; Schema: bank\_schema; Owner: postgres --  SELECT pg\_catalog.setval('bank\_schema.deposit\_deposit\_id\_seq', 1, false);   -- -- TOC entry 3128 (class 0 OID 0) -- Dependencies: 203 -- Name: depositor\_depositor\_id\_seq; Type: SEQUENCE SET; Schema: bank\_schema; Owner: postgres --  SELECT pg\_catalog.setval('bank\_schema.depositor\_depositor\_id\_seq', 14, true);   -- -- TOC entry 3129 (class 0 OID 0) -- Dependencies: 213 -- Name: payment\_payment\_id\_seq; Type: SEQUENCE SET; Schema: bank\_schema; Owner: postgres --  SELECT pg\_catalog.setval('bank\_schema.payment\_payment\_id\_seq', 1, false);   -- -- TOC entry 3130 (class 0 OID 0) -- Dependencies: 217 -- Name: position\_position\_id\_seq; Type: SEQUENCE SET; Schema: bank\_schema; Owner: postgres --  SELECT pg\_catalog.setval('bank\_schema.position\_position\_id\_seq', 1, false);   -- -- TOC entry 3131 (class 0 OID 0) -- Dependencies: 201 -- Name: worker\_worker\_id\_seq; Type: SEQUENCE SET; Schema: bank\_schema; Owner: postgres --  SELECT pg\_catalog.setval('bank\_schema.worker\_worker\_id\_seq', 1, false);   -- -- TOC entry 2939 (class 2606 OID 32993) -- Name: credit\_contract credit\_contract\_pkey; Type: CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.credit\_contract  ADD CONSTRAINT credit\_contract\_pkey PRIMARY KEY (credit\_cont\_id);   -- -- TOC entry 2943 (class 2606 OID 33010) -- Name: credit credit\_pkey; Type: CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.credit  ADD CONSTRAINT credit\_pkey PRIMARY KEY (credit\_id);   -- -- TOC entry 2947 (class 2606 OID 33033) -- Name: currency currency\_pkey; Type: CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.currency  ADD CONSTRAINT currency\_pkey PRIMARY KEY (currency\_id);   -- -- TOC entry 2937 (class 2606 OID 32983) -- Name: deposit\_contract deposit\_contract\_pkey; Type: CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.deposit\_contract  ADD CONSTRAINT deposit\_contract\_pkey PRIMARY KEY (deposit\_cont\_id);   -- -- TOC entry 2941 (class 2606 OID 33002) -- Name: deposit deposit\_pkey; Type: CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.deposit  ADD CONSTRAINT deposit\_pkey PRIMARY KEY (deposit\_id);   -- -- TOC entry 2935 (class 2606 OID 32943) -- Name: depositor depositor\_pkey; Type: CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.depositor  ADD CONSTRAINT depositor\_pkey PRIMARY KEY (depositor\_id);   -- -- TOC entry 2906 (class 2606 OID 32949) -- Name: depositor email; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.depositor  ADD CONSTRAINT email CHECK (((email)::text ~ '^\S+@\S+$'::text)) NOT VALID;   -- -- TOC entry 2900 (class 2606 OID 32932) -- Name: worker first\_name; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.worker  ADD CONSTRAINT first\_name CHECK (((first\_name)::text ~ '^[A-Z|a-z|А-Я|а-я|ё|Ё]+$'::text)) NOT VALID;   -- -- TOC entry 2907 (class 2606 OID 32945) -- Name: depositor first\_name; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.depositor  ADD CONSTRAINT first\_name CHECK (((first\_name)::text ~ '^[A-Z|a-z|А-Я|а-я|ё|Ё]+$'::text)) NOT VALID;   -- -- TOC entry 2924 (class 2606 OID 33011) -- Name: credit interest; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.credit  ADD CONSTRAINT interest CHECK (((interest >= (0)::numeric) AND (interest <= (1)::numeric))) NOT VALID;   -- -- TOC entry 2901 (class 2606 OID 32934) -- Name: worker last\_name; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.worker  ADD CONSTRAINT last\_name CHECK (((last\_name)::text ~ '^[A-Z|a-z|А-Я|а-я|ё|Ё]+$'::text)) NOT VALID;   -- -- TOC entry 2908 (class 2606 OID 32947) -- Name: depositor last\_name; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.depositor  ADD CONSTRAINT last\_name CHECK (((last\_name)::text ~ '^[A-Z|a-z|А-Я|а-я|ё|Ё]+$'::text)) NOT VALID;   -- -- TOC entry 2925 (class 2606 OID 33013) -- Name: credit max\_term; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.credit  ADD CONSTRAINT max\_term CHECK (((max\_term > min\_term) AND (max\_term > 0))) NOT VALID;   -- -- TOC entry 2920 (class 2606 OID 33016) -- Name: deposit max\_term; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.deposit  ADD CONSTRAINT max\_term CHECK (((max\_term > min\_term) AND (max\_term > 0))) NOT VALID;   -- -- TOC entry 2902 (class 2606 OID 32933) -- Name: worker middle\_name; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.worker  ADD CONSTRAINT middle\_name CHECK (((middle\_name)::text ~ '^[A-Z|a-z|А-Я|а-я|ё|Ё]+$'::text)) NOT VALID;   -- -- TOC entry 2909 (class 2606 OID 32946) -- Name: depositor middle\_name; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.depositor  ADD CONSTRAINT middle\_name CHECK (((middle\_name)::text ~ '^[A-Z|a-z|А-Я|а-я|ё|Ё]+$'::text)) NOT VALID;   -- -- TOC entry 2926 (class 2606 OID 33012) -- Name: credit min\_term; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.credit  ADD CONSTRAINT min\_term CHECK (((min\_term < max\_term) AND (min\_term > 0))) NOT VALID;   -- -- TOC entry 2921 (class 2606 OID 33015) -- Name: deposit min\_term; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.deposit  ADD CONSTRAINT min\_term CHECK (((min\_term < max\_term) AND (min\_term > 0))) NOT VALID;   -- -- TOC entry 2903 (class 2606 OID 32935) -- Name: worker passport\_type; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.worker  ADD CONSTRAINT passport\_type CHECK (((passport\_type)::text = ANY (ARRAY['RU'::text, 'EU'::text, 'USA'::text, 'Other'::text, 'Processing'::text]))) NOT VALID;   -- -- TOC entry 2910 (class 2606 OID 32948) -- Name: depositor passport\_type; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.depositor  ADD CONSTRAINT passport\_type CHECK (((passport\_type)::text = ANY (ARRAY['RU'::text, 'EU'::text, 'USA'::text, 'Other'::text, 'Processing'::text]))) NOT VALID;   -- -- TOC entry 2945 (class 2606 OID 33025) -- Name: payment payment\_pkey; Type: CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.payment  ADD CONSTRAINT payment\_pkey PRIMARY KEY (payment\_id);   -- -- TOC entry 2904 (class 2606 OID 32931) -- Name: worker phone\_number; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.worker  ADD CONSTRAINT phone\_number CHECK (((phone\_number)::text ~ '^([0-9\(\)\/\+ \-]\*)$'::text)) NOT VALID;   -- -- TOC entry 2911 (class 2606 OID 32944) -- Name: depositor phone\_number; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.depositor  ADD CONSTRAINT phone\_number CHECK (((phone\_number)::text ~ '^([0-9\(\)\/\+ \-]\*)$'::text)) NOT VALID;   -- -- TOC entry 2949 (class 2606 OID 33094) -- Name: position position\_pkey; Type: CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema."position"  ADD CONSTRAINT position\_pkey PRIMARY KEY (position\_id);   -- -- TOC entry 2927 (class 2606 OID 33014) -- Name: credit term; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.credit  ADD CONSTRAINT term CHECK ((term > 0)) NOT VALID;   -- -- TOC entry 2922 (class 2606 OID 33017) -- Name: deposit term; Type: CHECK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE bank\_schema.deposit  ADD CONSTRAINT term CHECK ((term > 0)) NOT VALID;   -- -- TOC entry 2933 (class 2606 OID 32930) -- Name: worker worker\_pkey; Type: CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.worker  ADD CONSTRAINT worker\_pkey PRIMARY KEY (worker\_id);   -- -- TOC entry 2959 (class 2606 OID 33107) -- Name: payment credit\_cont\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.payment  ADD CONSTRAINT credit\_cont\_id FOREIGN KEY (credit\_cont\_id) REFERENCES bank\_schema.credit\_contract(credit\_cont\_id) NOT VALID;   -- -- TOC entry 2954 (class 2606 OID 33132) -- Name: credit\_contract credit\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.credit\_contract  ADD CONSTRAINT credit\_id FOREIGN KEY (credit\_id) REFERENCES bank\_schema.credit(credit\_id) NOT VALID;   -- -- TOC entry 2957 (class 2606 OID 33127) -- Name: deposit currency\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.deposit  ADD CONSTRAINT currency\_id FOREIGN KEY (currency\_id) REFERENCES bank\_schema.currency(currency\_id) NOT VALID;   -- -- TOC entry 2958 (class 2606 OID 33147) -- Name: credit currency\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.credit  ADD CONSTRAINT currency\_id FOREIGN KEY (currency\_id) REFERENCES bank\_schema.currency(currency\_id) NOT VALID;   -- -- TOC entry 2951 (class 2606 OID 33112) -- Name: deposit\_contract deposit\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.deposit\_contract  ADD CONSTRAINT deposit\_id FOREIGN KEY (deposit\_id) REFERENCES bank\_schema.deposit(deposit\_id) NOT VALID;   -- -- TOC entry 2952 (class 2606 OID 33117) -- Name: deposit\_contract depositor\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.deposit\_contract  ADD CONSTRAINT depositor\_id FOREIGN KEY (depositor\_id) REFERENCES bank\_schema.depositor(depositor\_id) NOT VALID;   -- -- TOC entry 2955 (class 2606 OID 33137) -- Name: credit\_contract depositor\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.credit\_contract  ADD CONSTRAINT depositor\_id FOREIGN KEY (depositor\_id) REFERENCES bank\_schema.depositor(depositor\_id) NOT VALID;   -- -- TOC entry 2950 (class 2606 OID 33102) -- Name: worker position\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.worker  ADD CONSTRAINT position\_id FOREIGN KEY (position\_id) REFERENCES bank\_schema."position"(position\_id) NOT VALID;   -- -- TOC entry 2953 (class 2606 OID 33122) -- Name: deposit\_contract worker\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.deposit\_contract  ADD CONSTRAINT worker\_id FOREIGN KEY (worker\_id) REFERENCES bank\_schema.worker(worker\_id) NOT VALID;   -- -- TOC entry 2956 (class 2606 OID 33142) -- Name: credit\_contract worker\_id; Type: FK CONSTRAINT; Schema: bank\_schema; Owner: postgres --  ALTER TABLE ONLY bank\_schema.credit\_contract  ADD CONSTRAINT worker\_id FOREIGN KEY (worker\_id) REFERENCES bank\_schema.worker(worker\_id) NOT VALID;   -- Completed on 2021-06-11 10:32:00  -- -- PostgreSQL database dump complete -- |

1. **Выводы**

pgAdmin предоставляет удобный интерфейс для работы с postgres, дающий возможностью не прибегать к использованию SQL напрямую. По созданной базе данных можно автоматически сгенерировать ER диаграмму, однако связи придется перетаскивать вручную: они генерируются друг на друге, и не понятно какая связь куда идет.