



МИНОБРНАУКИ РОССИИ

Федеральное государственное бюджетное образовательное учреждение
высшего образования

«МИРЭА – Российский технологический университет»

РТУ МИРЭА

**Институт информационных технологий (ИИТ)
Кафедра цифровой трансформации (ЦТ)**

ОТЧЕТ ПО ПРАКТИЧЕСКОЙ РАБОТЕ №7
по дисциплине «Проектирование баз данных»

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ОСНОВЫ SQL В POSTGRESQL

Цель: сформировать навык по созданию БД и заполнению таблиц с помощью PostGres.

Постановка задачи:

1. Установить PostgresSQL;
2. Установить Dbeaver;
3. Сгенерировать запросы CREATE TABLE по Практической работе № 6. Показать скриншотами;
4. Заполнить созданные таблицы с помощью запроса INSERT INTO;
5. Вывести на экран все таблицы SELECT * FROM Table1.

Выполнение практической работы

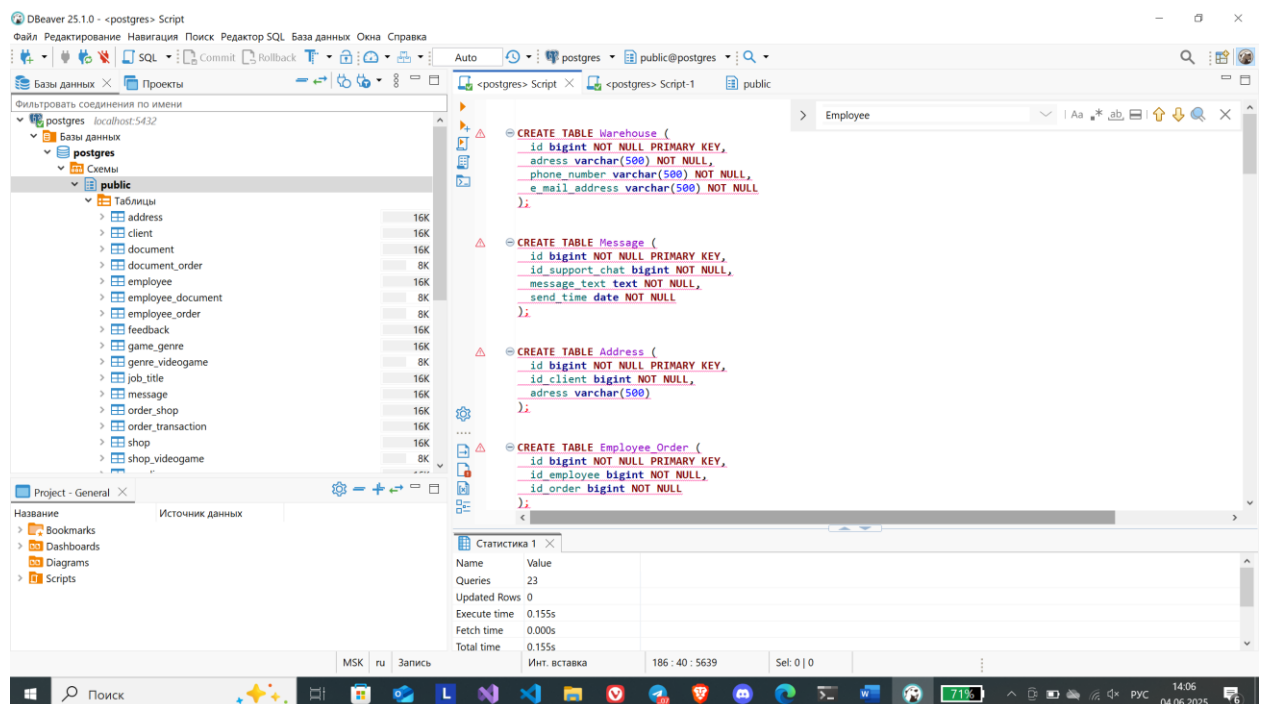


Рисунок 1 — запросы для создания таблиц

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ALTER TABLE Videogame ADD CONSTRAINT Game_Id_Sup_fk FOREIGN KEY (id_supplier) REFERENCES Supplier (id);
ALTER TABLE Employee ADD CONSTRAINT Employee_id_job_title_fk FOREIGN KEY (id_job_title) REFERENCES Job_title (id);
ALTER TABLE Support_chat ADD CONSTRAINT Support_chat_id_client_fk FOREIGN KEY (id_client) REFERENCES Client (id);
ALTER TABLE Support_chat ADD CONSTRAINT Support_chat_id_employee_fk FOREIGN KEY (id_employee) REFERENCES Employee (id);
ALTER TABLE Message ADD CONSTRAINT Message_id_support_chat_fk FOREIGN KEY (id_support_chat) REFERENCES Support_chat (id);
ALTER TABLE Employee_Document ADD CONSTRAINT Employee_Document_id_employee_fk FOREIGN KEY (id_employee) REFERENCES Employee (id);
ALTER TABLE Employee_Document ADD CONSTRAINT Employee_Document_id_document_fk FOREIGN KEY (id_document) REFERENCES Document (id);
ALTER TABLE Warehouse_Videogame ADD CONSTRAINT Warehouse_Videogame_id_warehouse_fk FOREIGN KEY (id_warehouse) REFERENCES Warehouse (id);
ALTER TABLE Shop_Videogame ADD CONSTRAINT Shop_Videogame_id_shop_fk FOREIGN KEY (id_shop) REFERENCES Shop (id);
ALTER TABLE Genre_Videogame ADD CONSTRAINT Genre_Videogame_id_game_genre_fk FOREIGN KEY (id_game_genre) REFERENCES Game_genre (id);
ALTER TABLE Genre_Videogame ADD CONSTRAINT Genre_Videogame_id_videogame_fk FOREIGN KEY (id_videogame) REFERENCES Videogame (id);
ALTER TABLE Feedback ADD CONSTRAINT Feedback_id_videogame_fk FOREIGN KEY (id_videogame) REFERENCES Videogame (id);
ALTER TABLE Feedback ADD CONSTRAINT Feedback_id_client_fk FOREIGN KEY (id_client) REFERENCES Client (id);
ALTER TABLE Order_Transaction ADD CONSTRAINT Order_Transaction_id_order_fk FOREIGN KEY (id_order) REFERENCES Order_shop (id);
ALTER TABLE Address ADD CONSTRAINT Address_id_client_fk FOREIGN KEY (id_client) REFERENCES Client (id);
ALTER TABLE Address ADD CONSTRAINT Address_id_client_fk FOREIGN KEY (id_client) REFERENCES Client (id);
ALTER TABLE Order_shop ADD CONSTRAINT Order_shop_id_client_fk FOREIGN KEY (id_client) REFERENCES Client (id);
ALTER TABLE Order_shop ADD CONSTRAINT Order_shop_id_address_fk FOREIGN KEY (id_address) REFERENCES Address (id);
ALTER TABLE Employee_Order ADD CONSTRAINT Employee_Order_id_employee_fk FOREIGN KEY (id_employee) REFERENCES Employee (id);
ALTER TABLE Employee_Order ADD CONSTRAINT Employee_Order_id_order_fk FOREIGN KEY (id_order) REFERENCES Order_shop (id);
ALTER TABLE Document_Order ADD CONSTRAINT Document_Order_id_document_fk FOREIGN KEY (id_document) REFERENCES Document (id);
ALTER TABLE Document_Order ADD CONSTRAINT Document_Order_id_order_fk FOREIGN KEY (id_order) REFERENCES Order_shop (id);
ALTER TABLE Warehouse_Videogame ADD CONSTRAINT Warehouse_Videogame_id_videogame_fk FOREIGN KEY (id_videogame) REFERENCES Videogame (id);
ALTER TABLE Shop_Videogame ADD CONSTRAINT Shop_Videogame_id_videogame_fk FOREIGN KEY (id_videogame) REFERENCES Videogame (id);

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Рисунок 2 — запросы для создания внешних ключей

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➤ insert into game_genre (description) values ('Шутер');
insert into game_genre (description) values ('Roguelike');
insert into game_genre (description) values ('Стратегия');

insert into supplier (supplier_name, phone_number, e_mail_address, address) values ('Devolver', '88005553535', 'devolver@gmail.com', 'Russia, Moscow');
insert into supplier (supplier_name, phone_number, e_mail_address, address) values ('RDR', '88007484345', 'rdr@gmail.com', 'Poland, Warsaw');

insert into shop (phone, address, web_site_link) values ('89037839958', 'Russia, Troitsk', 'stop_game');
insert into shop (phone, address, web_site_link) values ('89265631245', 'Russia, Moscow', 'IGM');
insert into shop (phone, address, web_site_link) values ('88881235678', 'Russia, Podolsk', 'GIG_game');

insert into job_title (title, salary) values ('Продавец', 50000);
insert into job_title (title, salary) values ('Курьер', 40000);
insert into job_title (title, salary) values ('Менеджер', 70000);

insert into warehouse (address, phone_number, e_mail_address) values ('Russia, Moscow', '89001232323', 'wh@mail.ru');
insert into warehouse (address, phone_number, e_mail_address) values ('Russia, Moscow', '88005535355', 'wh2@mail.ru');
insert into warehouse (address, phone_number, e_mail_address) values ('Russia, Moscow', '88882222222', 'wh3@mail.ru');

```

Рисунок 3 — заполнение нескольких таблиц

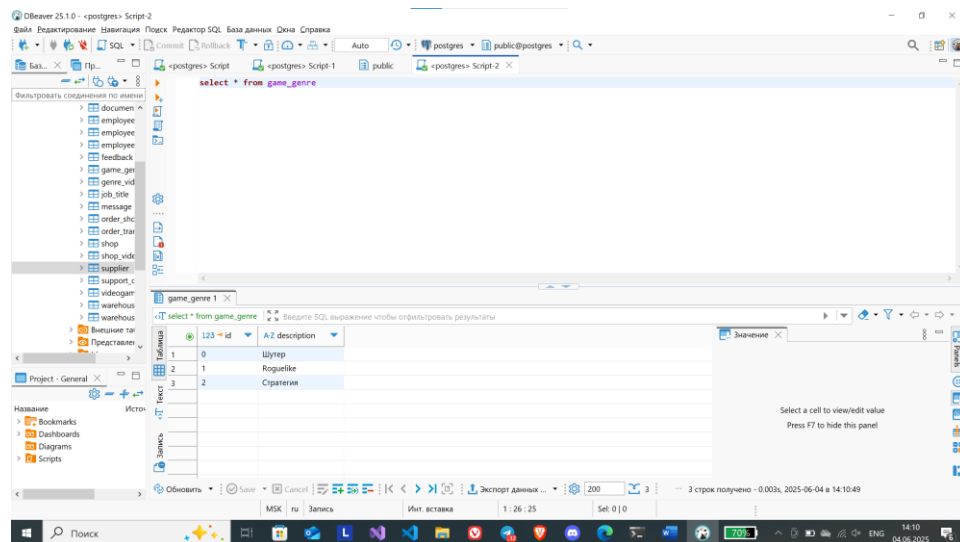


Рисунок 4 — вывод данных в таблице

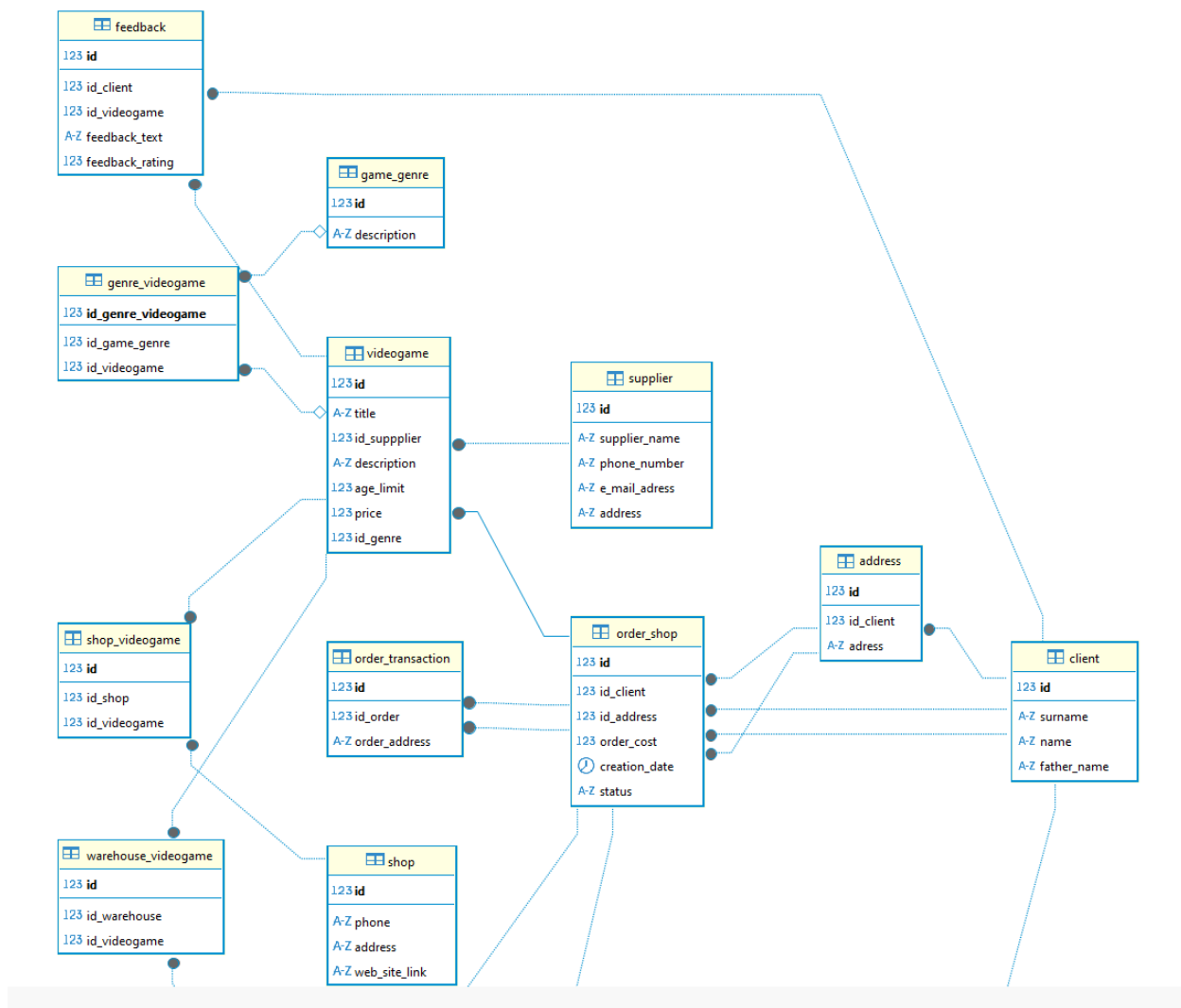


Рисунок 5 — Диаграмма

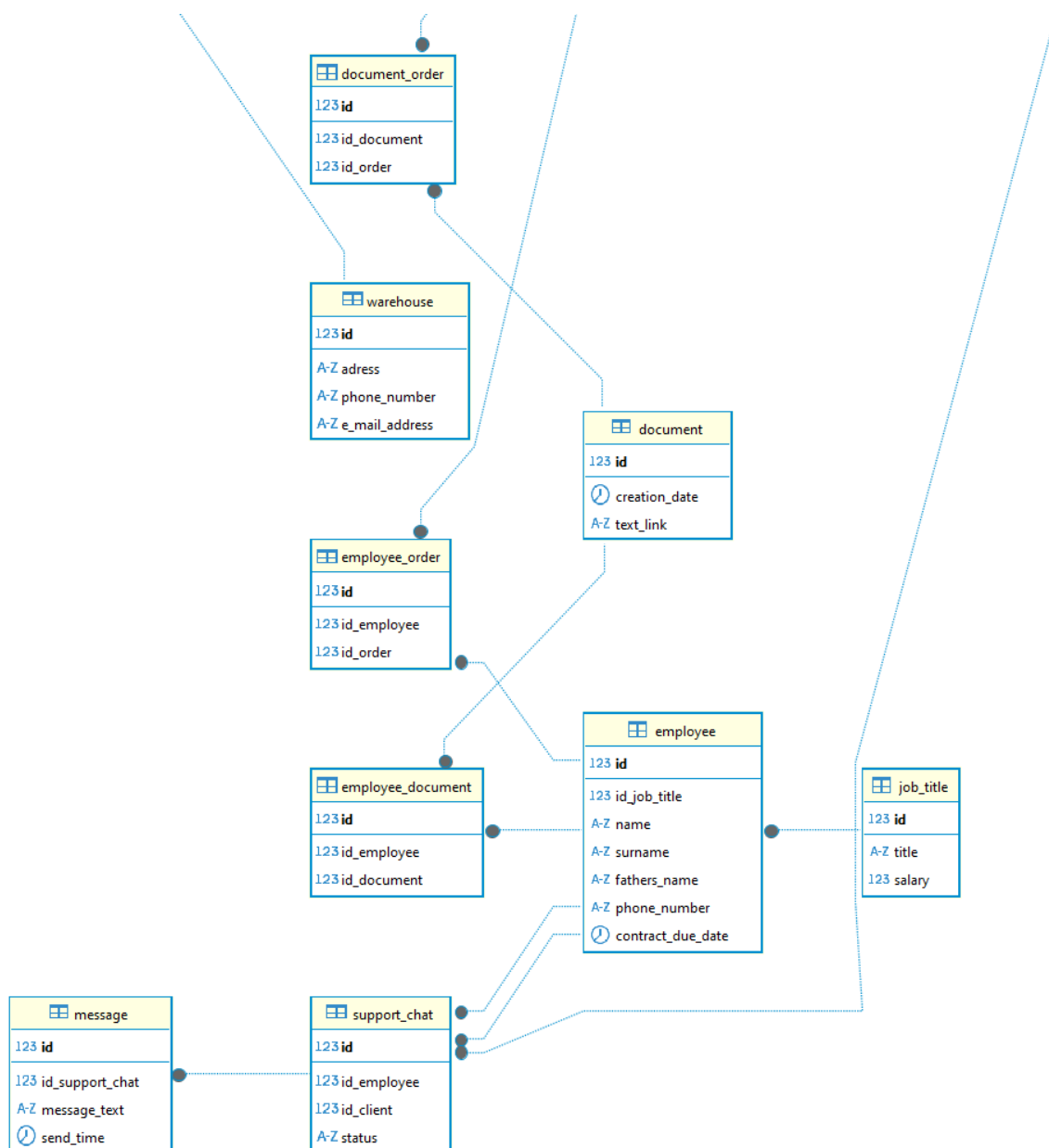


Рисунок 6 - Диаграмма