**РАЗРЕШЕНИЯ**

sudo mkdir /db

sudo chown reddatabase /db

**СОЗДАНИЕ БАЗЫ ДАННЫХ**

Создать базу данных >

Имя подключения: DemoConnection

Файл базы данных: /db/demo.fdb

Имя пользователя: sysdba

Пароль: пароль администратора

Create > Connect

**СОЗДАНИЕ ТАБЛИЦ**

CREATE TABLE PRODUCT\_TYPE (

PRODUCT\_TYPE\_ID INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

PRODUCT\_TYPE\_NAME VARCHAR(100),

PRODUCT\_TYPE\_COEFFICIENT DECIMAL(10,2)

);

CREATE TABLE MATERIAL\_TYPE (

MATERIAL\_TYPE\_ID INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

MATERIAL\_TYPE\_NAME VARCHAR(100),

PERCENTAGE\_DEFECTIVE\_MATERIAL DECIMAL(5,4)

);

CREATE TABLE PARTNER\_TYPE (

PARTNER\_TYPE\_ID INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

PARTNER\_TYPE\_NAME VARCHAR(100)

);

CREATE TABLE PRODUCT (

PRODUCT\_ARTICLE VARCHAR(7) PRIMARY KEY,

PRODUCT\_NAME VARCHAR(150),

MINIMUM\_COST\_FOR\_PARTNER DECIMAL(15,2),

PRODUCT\_TYPE INT,

FOREIGN KEY (PRODUCT\_TYPE) REFERENCES PRODUCT\_TYPE(PRODUCT\_TYPE\_ID)

);

CREATE TABLE PARTNER (

PARTNER\_ID INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

PARTNER\_NAME VARCHAR(100),

DIRECTOR VARCHAR(100),

DIRECTOR\_MAIL VARCHAR(100),

DIRECTOR\_PHONE VARCHAR(25),

PARTNER\_LEGAL\_ADDRESS VARCHAR(150),

PARTNER\_INN VARCHAR(100),

PARTNER\_RATING INT,

PARTNER\_TYPE INT,

FOREIGN KEY (PARTNER\_TYPE) REFERENCES PARTNER\_TYPE(PARTNER\_TYPE\_ID)

);

CREATE TABLE SALE (

SALE\_ID INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

PRODUCT\_ARTICLE VARCHAR(7),

PARTNER INT,

PRODUCT\_COUNT INT,

SALE\_DATE DATE,

FOREIGN KEY (PARTNER) REFERENCES PARTNER(PARTNER\_ID),

FOREIGN KEY (PRODUCT\_ARTICLE) REFERENCES PRODUCT(PRODUCT\_ARTICLE)

);

CREATE TABLE PRODUCT\_MATERIAL\_TYPE (

PRODUCT\_MATERIAL\_TYPE\_ID INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

PRODUCT VARCHAR(7),

MATERIAL\_TYPE INT,

FOREIGN KEY (PRODUCT) REFERENCES PRODUCT(PRODUCT\_ARTICLE),

FOREIGN KEY (MATERIAL\_TYPE) REFERENCES MATERIAL\_TYPE(MATERIAL\_TYPE\_ID)

);

**ЗАПОЛНЕНИЕ ТАБЛИЦ**

INSERT INTO PARTNER\_TYPE (PARTNER\_TYPE\_ID, PARTNER\_TYPE\_NAME)

SELECT 1, 'ЗАО' FROM RDB$DATABASE UNION ALL

SELECT 2, 'ООО' FROM RDB$DATABASE UNION ALL

SELECT 3, 'ПАО' FROM RDB$DATABASE UNION ALL

SELECT 4, 'ОАО' FROM RDB$DATABASE;

COMMIT;

INSERT INTO PRODUCT\_TYPE (PRODUCT\_TYPE\_ID, PRODUCT\_TYPE\_NAME, PRODUCT\_TYPE\_COEFFICIENT)

SELECT 1, 'Ламинат', 2.35 FROM RDB$DATABASE UNION ALL

SELECT 2, 'Массивная доска', 5.15 FROM RDB$DATABASE UNION ALL

SELECT 3, 'Паркетная доска', 4.34 FROM RDB$DATABASE UNION ALL

SELECT 4, 'Пробковое покрытие', 1.50 FROM RDB$DATABASE;

COMMIT;

INSERT INTO MATERIAL\_TYPE (MATERIAL\_TYPE\_NAME, PERCENTAGE\_DEFECTIVE\_MATERIAL)

SELECT 'Тип материала 1', 0.0010 FROM RDB$DATABASE UNION ALL

SELECT 'Тип материала 2', 0.0095 FROM RDB$DATABASE UNION ALL

SELECT 'Тип материала 3', 0.0028 FROM RDB$DATABASE UNION ALL

SELECT 'Тип материала 4', 0.0055 FROM RDB$DATABASE UNION ALL

SELECT 'Тип материала 5', 0.0034 FROM RDB$DATABASE;

COMMIT;

INSERT INTO PRODUCT (PRODUCT\_ARTICLE, PRODUCT\_NAME, MINIMUM\_COST\_FOR\_PARTNER, PRODUCT\_TYPE)

SELECT '8758385', 'Паркетная доска Ясень темный однополосная 14 мм', 4456.90, 3 FROM RDB$DATABASE UNION ALL

SELECT '8858958', 'Инженерная доска Дуб Французская елка однополосная 12 мм', 7330.99, 3 FROM RDB$DATABASE UNION ALL

SELECT '7750282', 'Ламинат Дуб дымчато-белый 33 класс 12 мм', 1799.33, 1 FROM RDB$DATABASE UNION ALL

SELECT '7028748', 'Ламинат Дуб серый 32 класс 8 мм с фаской', 3890.41, 1 FROM RDB$DATABASE UNION ALL

SELECT '5012543', 'Пробковое напольное клеевое покрытие 32 класс 4 мм', 5450.59, 4 FROM RDB$DATABASE;

COMMIT;

INSERT INTO PARTNER (PARTNER\_ID, PARTNER\_NAME, DIRECTOR, DIRECTOR\_MAIL, DIRECTOR\_PHONE, PARTNER\_LEGAL\_ADDRESS, PARTNER\_INN, PARTNER\_RATING, PARTNER\_TYPE)

SELECT 1, 'База Строитель', 'Иванова Александра Ивановна', 'aleksandraivanova@ml.ru', '493 123 45 67', '652050, Кемеровская область, город Юрга, ул. Лесная, 15', '2222455179', 7, 1 FROM RDB$DATABASE UNION ALL

SELECT 2, 'Паркет 29', 'Петров Василий Петрович', 'vppetrov@vl.ru', '987 123 56 78', '164500, Архангельская область, город Северодвинск, ул. Строителей, 18', '3333888520', 7, 2 FROM RDB$DATABASE UNION ALL

SELECT 3, 'Стройсервис', 'Соловьев Андрей Николаевич', 'ansolovev@st.ru', '812 223 32 00', '188910, Ленинградская область, город Приморск, ул. Парковая, 21', '4440391035', 7, 3 FROM RDB$DATABASE UNION ALL

SELECT 4, 'Ремонт и отделка', 'Воробьева Екатерина Валерьевна', 'ekaterina.vorobeva@ml.ru', '444 222 33 11', '143960, Московская область, город Реутов, ул. Свободы, 51', '1111520857', 5, 4 FROM RDB$DATABASE UNION ALL

SELECT 5, 'МонтажПро', 'Степанов Степан Сергеевич', 'stepanov@stepan.ru', '912 888 33 33', '309500, Белгородская область, город Старый Оскол, ул. Рабочая, 122', '5552431140', 10, 1 FROM RDB$DATABASE;

COMMIT;

INSERT INTO PRODUCT\_MATERIAL\_TYPE (PRODUCT\_MATERIAL\_TYPE\_ID, PRODUCT, MATERIAL\_TYPE)

SELECT 1, '8858958', 3 FROM RDB$DATABASE UNION ALL

SELECT 2, '8858958', 4 FROM RDB$DATABASE UNION ALL

SELECT 3, '5012543', 4 FROM RDB$DATABASE UNION ALL

SELECT 4, '5012543', 3 FROM RDB$DATABASE UNION ALL

SELECT 5, '7750282', 2 FROM RDB$DATABASE UNION ALL

SELECT 6, '5012543', 5 FROM RDB$DATABASE UNION ALL

SELECT 7, '8858958', 5 FROM RDB$DATABASE UNION ALL

SELECT 8, '8858958', 4 FROM RDB$DATABASE UNION ALL

SELECT 9, '7028748', 1 FROM RDB$DATABASE UNION ALL

SELECT 10, '8758385', 4 FROM RDB$DATABASE UNION ALL

SELECT 11, '7028748', 3 FROM RDB$DATABASE UNION ALL

SELECT 12, '7028748', 5 FROM RDB$DATABASE UNION ALL

SELECT 13, '5012543', 4 FROM RDB$DATABASE UNION ALL

SELECT 14, '5012543', 1 FROM RDB$DATABASE UNION ALL

SELECT 15, '8758385', 3 FROM RDB$DATABASE UNION ALL

SELECT 16, '5012543', 5 FROM RDB$DATABASE UNION ALL

SELECT 17, '8758385', 5 FROM RDB$DATABASE UNION ALL

SELECT 18, '7750282', 2 FROM RDB$DATABASE UNION ALL

SELECT 19, '8858958', 5 FROM RDB$DATABASE UNION ALL

SELECT 20, '7028748', 4 FROM RDB$DATABASE UNION ALL

SELECT 21, '8858958', 5 FROM RDB$DATABASE UNION ALL

SELECT 22, '8858958', 3 FROM RDB$DATABASE UNION ALL

SELECT 23, '7750282', 5 FROM RDB$DATABASE UNION ALL

SELECT 24, '7750282', 5 FROM RDB$DATABASE UNION ALL

SELECT 25, '5012543', 5 FROM RDB$DATABASE UNION ALL

SELECT 26, '8758385', 2 FROM RDB$DATABASE UNION ALL

SELECT 27, '8858958', 1 FROM RDB$DATABASE UNION ALL

SELECT 28, '7750282', 3 FROM RDB$DATABASE UNION ALL

SELECT 29, '8758385', 4 FROM RDB$DATABASE UNION ALL

SELECT 30, '7750282', 2 FROM RDB$DATABASE;

COMMIT;

INSERT INTO SALE (SALE\_ID, PRODUCT\_ARTICLE, PARTNER, PRODUCT\_COUNT, SALE\_DATE)

SELECT 1, '8758385', 1, 15500, DATE '2023-03-23' FROM RDB$DATABASE UNION ALL

SELECT 2, '7750282', 1, 12350, DATE '2023-12-18' FROM RDB$DATABASE UNION ALL

SELECT 3, '7028748', 1, 37400, DATE '2024-06-07' FROM RDB$DATABASE UNION ALL

SELECT 4, '8858958', 2, 35000, DATE '2022-12-02' FROM RDB$DATABASE UNION ALL

SELECT 5, '5012543', 2, 1250, DATE '2023-05-17' FROM RDB$DATABASE UNION ALL

SELECT 6, '7750282', 2, 1000, DATE '2024-06-07' FROM RDB$DATABASE UNION ALL

SELECT 7, '8758385', 2, 7550, DATE '2024-07-01' FROM RDB$DATABASE UNION ALL

SELECT 8, '8758385', 3, 7250, DATE '2023-01-22' FROM RDB$DATABASE UNION ALL

SELECT 9, '8858958', 3, 2500, DATE '2024-07-05' FROM RDB$DATABASE UNION ALL

SELECT 10, '7028748', 4, 59050, DATE '2023-03-20' FROM RDB$DATABASE UNION ALL

SELECT 11, '7750282', 4, 37200, DATE '2024-03-12' FROM RDB$DATABASE UNION ALL

SELECT 12, '5012543', 4, 4500, DATE '2024-05-14' FROM RDB$DATABASE UNION ALL

SELECT 13, '7750282', 5, 50000, DATE '2023-09-19' FROM RDB$DATABASE UNION ALL

SELECT 14, '7028748', 5, 670000, DATE '2023-11-10' FROM RDB$DATABASE UNION ALL

SELECT 15, '8758385', 5, 35000, DATE '2024-04-15' FROM RDB$DATABASE UNION ALL

SELECT 16, '8858958', 5, 25000, DATE '2024-06-12' FROM RDB$DATABASE;

COMMIT;

**ER-МОДЕЛЬ**

Инструменты > Редактор ER-модели > Реверс инженеринг > Все таблицы > Создать