



Рисунок 1 – ER-диаграмма базы данных master_floor

BEGIN;

```
CREATE TABLE IF NOT EXISTS public.material_types
(
    type_id serial NOT NULL,
    material_type character varying(255) COLLATE pg_catalog."default" NOT
NULL,
    defect_percentage numeric(5, 4) NOT NULL,
    CONSTRAINT material_types_pkey PRIMARY KEY (type_id)
);
```

```
CREATE TABLE IF NOT EXISTS public.materials
(
    material_id serial NOT NULL,
    material_type_id integer,
```

```

material_name character varying(255) COLLATE pg_catalog."default" NOT
NULL,
supplier character varying(255) COLLATE pg_catalog."default",
purchase_price numeric(10, 2),
stock_quantity integer,
CONSTRAINT materials_pkey PRIMARY KEY (material_id)
);

```

```

CREATE TABLE IF NOT EXISTS public.partner_products
(
    sale_id serial NOT NULL,
    product_id integer NOT NULL,
    partner_id integer NOT NULL,
    quantity integer NOT NULL,
    sale_date timestamp without time zone NOT NULL,
    CONSTRAINT partner_products_pkey PRIMARY KEY (sale_id)
);

```

```

CREATE TABLE IF NOT EXISTS public.partners
(
    partner_id serial NOT NULL,
    partner_type character varying(50) COLLATE pg_catalog."default" NOT
NULL,
    partner_name character varying(255) COLLATE pg_catalog."default" NOT
NULL,
    director character varying(255) COLLATE pg_catalog."default" NOT NULL,
    email character varying(255) COLLATE pg_catalog."default" NOT NULL,
    phone character varying(50) COLLATE pg_catalog."default" NOT NULL,
    address text COLLATE pg_catalog."default" NOT NULL,
    "INN" character varying(12) COLLATE pg_catalog."default" NOT NULL,
    rating integer,
    CONSTRAINT partners_pkey PRIMARY KEY (partner_id),
    CONSTRAINT partners_inn_key UNIQUE ("INN")
);

```

```

CREATE TABLE IF NOT EXISTS public.product_types
(
    type_id serial NOT NULL,
    product_type character varying(255) COLLATE pg_catalog."default" NOT
NULL,
    coefficient numeric(4, 2) NOT NULL,
    CONSTRAINT product_types_pkey PRIMARY KEY (type_id)
);

```

```

CREATE TABLE IF NOT EXISTS public.products
(
    product_id serial NOT NULL,
    product_type_id integer NOT NULL,
    product_name character varying(255) COLLATE pg_catalog."default" NOT
NULL,
    article character varying(50) COLLATE pg_catalog."default" NOT NULL,
    min_partner_price numeric(10, 2) NOT NULL,

```

```

        CONSTRAINT products_pkey PRIMARY KEY (product_id)
    );

CREATE TABLE IF NOT EXISTS public.users
(
    users_id serial NOT NULL,
    username character varying COLLATE pg_catalog."default",
    password character varying COLLATE pg_catalog."default",
    CONSTRAINT users_pkey PRIMARY KEY (users_id)
);

ALTER TABLE IF EXISTS public.materials
    ADD CONSTRAINT materials_material_type_id_fkey FOREIGN KEY
(material_type_id)
    REFERENCES public.material_types (type_id) MATCH SIMPLE
    ON UPDATE NO ACTION
    ON DELETE NO ACTION;

ALTER TABLE IF EXISTS public.partner_products
    ADD CONSTRAINT partner_products_partner_id_fkey FOREIGN KEY
(partner_id)
    REFERENCES public.partners (partner_id) MATCH SIMPLE
    ON UPDATE NO ACTION
    ON DELETE NO ACTION;

ALTER TABLE IF EXISTS public.partner_products
    ADD CONSTRAINT partner_products_product_id_fkey FOREIGN KEY
(product_id)
    REFERENCES public.products (product_id) MATCH SIMPLE
    ON UPDATE NO ACTION
    ON DELETE NO ACTION;

ALTER TABLE IF EXISTS public.products
    ADD CONSTRAINT products_product_type_id_fkey FOREIGN KEY
(product_type_id)
    REFERENCES public.product_types (type_id) MATCH SIMPLE
    ON UPDATE NO ACTION
    ON DELETE NO ACTION;

END;

```

Рисунок 2 – Код создания БД