-- DROP SCHEMA public;

CREATE SCHEMA public AUTHORIZATION postgres;

COMMENT ON SCHEMA public IS 'standard public schema';

-- DROP SEQUENCE public.film\_id\_seq;

CREATE SEQUENCE public.film\_id\_seq

INCREMENT BY 1

MINVALUE 1

MAXVALUE 2147483647

START 1

CACHE 1

NO CYCLE;

-- Permissions

ALTER SEQUENCE public.film\_id\_seq OWNER TO postgres;

GRANT ALL ON SEQUENCE public.film\_id\_seq TO postgres;

-- DROP SEQUENCE public.hall\_id\_seq;

CREATE SEQUENCE public.hall\_id\_seq

INCREMENT BY 1

MINVALUE 1

MAXVALUE 2147483647

START 1

CACHE 1

NO CYCLE;

-- Permissions

ALTER SEQUENCE public.hall\_id\_seq OWNER TO postgres;

GRANT ALL ON SEQUENCE public.hall\_id\_seq TO postgres;

-- DROP SEQUENCE public.screening\_id\_seq;

CREATE SEQUENCE public.screening\_id\_seq

INCREMENT BY 1

MINVALUE 1

MAXVALUE 2147483647

START 1

CACHE 1

NO CYCLE;

-- Permissions

ALTER SEQUENCE public.screening\_id\_seq OWNER TO postgres;

GRANT ALL ON SEQUENCE public.screening\_id\_seq TO postgres;

-- DROP SEQUENCE public.tickets\_id\_ticket\_seq;

CREATE SEQUENCE public.tickets\_id\_ticket\_seq

INCREMENT BY 1

MINVALUE 1

MAXVALUE 2147483647

START 1

CACHE 1

NO CYCLE;

-- Permissions

ALTER SEQUENCE public.tickets\_id\_ticket\_seq OWNER TO postgres;

GRANT ALL ON SEQUENCE public.tickets\_id\_ticket\_seq TO postgres;

-- public.film definition

-- Drop table

-- DROP TABLE public.film;

CREATE TABLE public.film (

id serial4 NOT NULL,

name\_ varchar(255) NULL,

description text NULL,

CONSTRAINT film\_pkey PRIMARY KEY (id)

);

-- Permissions

ALTER TABLE public.film OWNER TO postgres;

GRANT ALL ON TABLE public.film TO postgres;

-- public.hall definition

-- Drop table

-- DROP TABLE public.hall;

CREATE TABLE public.hall (

id serial4 NOT NULL,

name\_ varchar(100) NULL,

CONSTRAINT hall\_pkey PRIMARY KEY (id)

);

-- Permissions

ALTER TABLE public.hall OWNER TO postgres;

GRANT ALL ON TABLE public.hall TO postgres;

-- public.hall\_row definition

-- Drop table

-- DROP TABLE public.hall\_row;

CREATE TABLE public.hall\_row (

id\_hall int4 NULL,

number\_ int2 NOT NULL,

capacity int2 NULL,

CONSTRAINT hall\_row\_pkey PRIMARY KEY (number\_),

CONSTRAINT hall\_row\_id\_hall\_fkey FOREIGN KEY (id\_hall) REFERENCES public.hall(id)

);

-- Permissions

ALTER TABLE public.hall\_row OWNER TO postgres;

GRANT ALL ON TABLE public.hall\_row TO postgres;

-- public.screening definition

-- Drop table

-- DROP TABLE public.screening;

CREATE TABLE public.screening (

id serial4 NOT NULL,

hall\_id int4 NULL,

film\_id int4 NULL,

time\_ timestamp NULL,

CONSTRAINT screening\_pkey PRIMARY KEY (id),

CONSTRAINT screening\_film\_id\_fkey FOREIGN KEY (film\_id) REFERENCES public.film(id),

CONSTRAINT screening\_hall\_id\_fkey FOREIGN KEY (hall\_id) REFERENCES public.hall(id)

);

-- Permissions

ALTER TABLE public.screening OWNER TO postgres;

GRANT ALL ON TABLE public.screening TO postgres;

-- public.tickets definition

-- Drop table

-- DROP TABLE public.tickets;

CREATE TABLE public.tickets (

id\_ticket serial4 NOT NULL,

id\_screening int4 NULL,

row\_ int2 NULL,

seat int2 NULL,

cost\_ int4 NULL,

CONSTRAINT tickets\_pkey PRIMARY KEY (id\_ticket),

CONSTRAINT tickets\_id\_screening\_fkey FOREIGN KEY (id\_screening) REFERENCES public.screening(id)

);

-- Permissions

ALTER TABLE public.tickets OWNER TO postgres;

GRANT ALL ON TABLE public.tickets TO postgres;

-- public.film\_night source

CREATE OR REPLACE VIEW public.film\_night

AS SELECT film.name\_ AS "название фильма"

FROM screening

JOIN film ON film.id = screening.film\_id

WHERE screening.time\_ > '2021-01-01 23:00:00'::timestamp without time zone;

-- Permissions

ALTER TABLE public.film\_night OWNER TO postgres;

GRANT ALL ON TABLE public.film\_night TO postgres;

-- public.four\_pred source

CREATE OR REPLACE VIEW public.four\_pred

AS SELECT film.name\_ AS "Название фильма",

hall.name\_ AS "Зал",

screening.time\_

FROM screening

JOIN hall ON hall.id = screening.hall\_id

JOIN film ON film.id = screening.film\_id

WHERE film.name\_::text = 'Шрек 3'::text;

-- Permissions

ALTER TABLE public.four\_pred OWNER TO postgres;

GRANT ALL ON TABLE public

ALTER TABLE public.four\_pred OWNER TO postgres;

GRANT ALL ON TABLE public.four\_pred TO postgres;

-- public.row\_two\_three\_hall source

CREATE OR REPLACE VIEW public.row\_two\_three\_hall

AS SELECT hall\_row.capacity AS "Количество мест в ряду",

hall\_row.number\_ AS "Номер ряда",

hall.name\_ AS "Номер зала"

FROM hall\_row

JOIN hall ON hall.id = hall\_row.id\_hall

WHERE hall\_row.number\_ = 2 AND hall.name\_::text = '3 зал'::text;

-- Permission

ALTER TABLE public.row\_two\_three\_hall OWNER TO postgres;

GRANT ALL ON TABLE public.row\_two\_three\_hall TO postgres;

-- public.three\_pred source

CREATE OR REPLACE VIEW public.three\_pred

AS SELECT film.name\_ AS "Название фильма",

hall.name\_ AS "Зал",

screening.time\_

FROM screening

JOIN hall ON hall.id = screening.hall\_id

JOIN film ON film.id = screening.film\_id

WHERE hall.name\_::text = '3 зал'::text;

-- Permissions

ALTER TABLE public.three\_pred OWNER TO postgres;

GRANT ALL ON TABLE public.three\_pred TO postgres;

-- Permissions

GRANT ALL ON SCHEMA public TO postgres;

GRANT ALL ON SCHEMA public TO public;

ВВОД ДАННЫХ

INSERT INTO public.film (id,name\_,description) VALUES

(1,'Шрек 3','Круто'),

(2,'Марвел','хайп');

INSERT INTO public.hall (id,name\_) VALUES

(1,'3 зал'),

(3,'2 зал'),

(2,'1 зал');

INSERT INTO public.hall\_row (id\_hall,number\_,capacity) VALUES

(1,3,20),

(3,4,30),

(1,2,50);

INSERT INTO public.screening (id,hall\_id,film\_id,time\_) VALUES

(1,1,1,'2024-01-01 23:02:00'),

(2,2,2,'2020-01-01 23:02:00'),

(3,1,2,'2020-01-01 23:02:00'),

(4,3,1,'2020-01-01 23:02:00'),

(5,3,1,'2020-03-01 23:02:00');