

Шауэрман Айнур

Упражнение 3.1

Установите соединение с демонстрационной базой данных, используя psql.

Ответ:

```
ALTER DATABASE
a@pc:~$ docker exec -it edu psql -U edu
psql (15.3 (Debian 15.3-1.pgdg120+1))
Type "help" for help.

edu=# \c demo
You are now connected to database "demo" as user "edu".
demo=#
```

Упражнение 3.2

С помощью команды \d (и других) получите информацию об объектах демонстрационной базы данных.

Ответ:

```
ALTER DATABASE
a@pc:~$ docker exec -it edu psql -U edu
psql (15.3 (Debian 15.3-1.pgdg120+1))
Type "help" for help.

edu=# \c demo
You are now connected to database "demo" as user "edu".
demo=# \d

               List of relations
  Schema |          Name          | Type  | Owner
-----+-----+-----+-----
 bookings | aircrafts              | view  | edu
 bookings | aircrafts_data         | table | edu
 bookings | airports               | view  | edu
 bookings | airports_data          | table | edu
 bookings | boarding_passes        | table | edu
 bookings | bookings               | table | edu
 bookings | flights                | table | edu
 bookings | flights_flight_id_seq  | sequence | edu
 bookings | flights_v              | view  | edu
 bookings | routes                 | view  | edu
 bookings | seats                  | table | edu
 bookings | ticket_flights         | table | edu
 bookings | tickets                 | table | edu
(13 rows)

demo=# \d aircrafts

View "bookings.aircrafts"
  Column | Type      | Collation | Nullable | Default
-----+-----+-----+-----+-----
 aircraft_code | character(3) |          |          |
 model       | text       |          |          |
 range       | integer    |          |          |

demo=#
```

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model range | text | integer | | | |
demo=# \d flights
Table "bookings.flights"
  Column          |          Type          | Collation | Nullable |          Default
-----+-----+-----+-----+-----
flight_id         | integer                |           | not null | nextval('flights_flight_id_seq'::regclass)
flight_no         | character(6)           |           | not null |
scheduled_departure | timestamp with time zone |           | not null |
scheduled_arrival  | timestamp with time zone |           | not null |
departure_airport  | character(3)           |           | not null |
arrival_airport    | character(3)           |           | not null |
status            | character varying(20)  |           | not null |
aircraft_code      | character(3)           |           | not null |
actual_departure   | timestamp with time zone |           |          |
actual_arrival     | timestamp with time zone |           |          |
Indexes:
    "flights_pkey" PRIMARY KEY, btree (flight_id)
    "flights_flight_no_scheduled_departure_key" UNIQUE CONSTRAINT, btree (flight_no, scheduled_departure)
Check constraints:
    "flights_check" CHECK (scheduled_arrival > scheduled_departure)
    "flights_check1" CHECK (actual_arrival IS NULL OR actual_departure IS NOT NULL AND actual_arrival IS NOT NULL AND actual_arrival > actual_departure)
    "flights_status_check" CHECK (status::text = ANY (ARRAY['On Time'::character varying::text, 'Delayed'::character varying::text, 'Departed'::character varying::text, 'Arrived'::character varying::text, 'Scheduled'::character varying::text, 'Cancelled'::character varying::text]))
Foreign-key constraints:
    "flights_aircraft_code_fkey" FOREIGN KEY (aircraft_code) REFERENCES aircrafts_data(aircraft_code)
    "flights_arrival_airport_fkey" FOREIGN KEY (arrival_airport) REFERENCES airports_data(airport_code)
    "flights_departure_airport_fkey" FOREIGN KEY (departure_airport) REFERENCES airports_data(airport_code)
Referenced by:
    TABLE "ticket_flights" CONSTRAINT "ticket_flights_flight_id_fkey" FOREIGN KEY (flight_id) REFERENCES flights(flight_id)
demo=#

```

```

demo=# \dg
List of roles
Role name | Attributes | Member of
-----+-----+-----
edu       | Superuser, Create role, Create DB, Replication, Bypass RLS | {}

demo=# \di
List of relations
Schema | Name | Type | Owner | Table
-----+-----+-----+-----+-----
bookings | aircrafts_pkey | index | edu | aircrafts_data
bookings | airports_data_pkey | index | edu | airports_data
bookings | boarding_passes_flight_id_boarding_no_key | index | edu | boarding_passes
bookings | boarding_passes_flight_id_seat_no_key | index | edu | boarding_passes
bookings | boarding_passes_pkey | index | edu | boarding_passes
bookings | bookings_pkey | index | edu | bookings
bookings | flights_flight_no_scheduled_departure_key | index | edu | flights
bookings | flights_pkey | index | edu | flights
bookings | seats_pkey | index | edu | seats
bookings | ticket_flights_pkey | index | edu | ticket_flights
bookings | tickets_pkey | index | edu | tickets
(11 rows)

demo=#

```