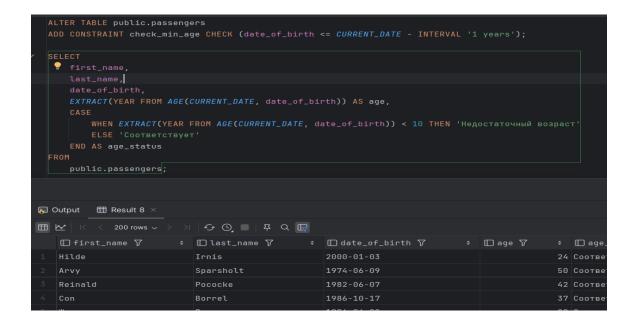
## Laboratory work 5

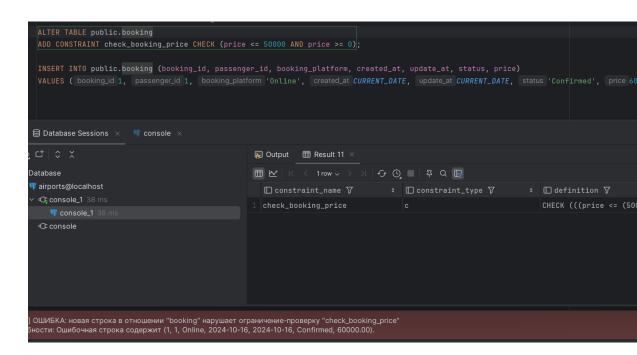
We continue to work with the database from the previous laboratory works.

Take a full-page screenshot that covers the code and results of each task.

**1.** Add a CHECK constraint to passenger table to provide that passengers must be at least 10 years old.



**2.** Add a CHECK constraint to accept values in booking price not more than 50000tg and less than 0tg.



**3.** Add a CHECK constraint to accept the luggage weight between 1 and 23 kg.

```
ALTER TABLE public.baggage

ADD CONSTRAINT check_luggage_weight CHECK (weight_in_kg BETWEEN 1 AND 23);
```

**4.** Add a CHECK constraint to ensure that all values in airport\_name must have at least 10 characters.

```
ALTER TABLE public.airport

ADD CONSTRAINT check_airport_name_length CHECK (LENGTH(airport_name) >= 10);
```

**5.** Add UNIQUE constraint to some columns in each table in database.

```
ALTER TABLE public.passengers

ADD CONSTRAINT unique_passport_number UNIQUE (passport_number);

ALTER TABLE public.booking

ADD CONSTRAINT unique_booking_platform UNIQUE (booking_platform);

ALTER TABLE public.airline

ADD CONSTRAINT unique_airline_code UNIQUE (airline_code);
```

**6.** Add a CHECK constraint to ensure that male passengers must be at least 18 years old and female passengers must be 19 years old.

- **7.** Add a CHECK constraint to add rule as follow (use column country\_of\_citizenship):
  - Passengers from Kazakhstan must be at least 18 years old.
  - Passengers from France must be at least 17 years old.
  - Passengers from other countries must be at least 19 years old.

- **8.** Add a ticket\_discount column to table booking and a CHECK constraint to apply some discount based on ticket price and created time:
  - the constraint applies a 5% discount for tickets created after 2024-01-01,

and 10% discount for tickets created before 2024-01-01.

```
ALTER TABLE public.booking
ADD COLUMN ticket_discount numeric(5, 2),
ADD CONSTRAINT check_ticket_discount CHECK (
        (created_at > '2024-01-01' AND ticket_discount = price * 0.05) OR
        (created_at <= '2024-01-01' AND ticket_discount = price * 0.10)
);</pre>
```