

The screenshot shows a PostgreSQL database management interface with the following components:

- Database Explorer**: Shows the database structure. Under the `postgres@localhost` connection, the `lab2_db` schema contains the `flights` table, which has 12 columns: `flight_id`, `sch_departure_time`, and `sch_arrival_time`.
- Query Editor**: A code editor titled `1.sql` containing the following SQL code:

```
CREATE VIEW v_flights_by_departure_date AS
SELECT f.*
FROM flights f
WHERE DATE(f.sch_departure_time) = CURRENT_DATE;
```
- Services**: A transaction history pane showing the following log:
 - [2025-11-18 20:04:44] Connected to lab2_db
 - [2025-11-18 20:04:44] completed in 1 s 887 ms
 - [2025-11-19 08:45:51] Connected to lab2_db
 - [2025-11-19 08:45:51] lab2_db> CREATE VIEW v_flights_by_departure_date AS
 SELECT f.*
 FROM flights f
 WHERE DATE(f.sch_departure_time) = CURRENT_DATE
[2025-11-19 08:45:51] completed in 62 ms
- Files**: A sidebar showing the file structure. It includes a folder `Lab3` at `C:\Users\amina\Desktop`, a folder `lab8` at `C:\Users\amina\Desktop` containing a file `1.sql` (postgres@localhost), and a folder `Scratches and Consoles`.

The screenshot shows a PostgreSQL database management interface with the following components:

- Database Explorer**: Shows the database schema. It includes a tree view of databases (Lab3, lab2_db, lab8), schemas (information_schema, pg_catalog, public), and tables (airline, airport, baggage, baggage_check, boarding_pass, booking, booking_flight, flights). The flights table is expanded, showing columns: flight_id (integer, nextval), sch_departure_time (time), and sch_arrival_time (timestamp).
- Editor**: A code editor titled "1.sql" containing two CREATE VIEW statements. The first statement creates a view for flights departing today. The second statement, which is highlighted, creates a view for bookings for flights departing within the next 7 days. Both statements use the CURRENT_DATE function.
- Services**: A transaction history pane showing the execution of the SQL file. It lists the queries, their execution times, and error messages. One error message is displayed in red: "[2025-11-19 08:49:49] [42601] ОШИБКА: ошибка синтаксиса (примерное положение: "'7 days'")".
- Files**: A sidebar showing the project structure. It includes a "Files" section with files like Lab3, lab8, and 1.sql, and a "Scratches and Consoles" section.

```
CREATE VIEW v_flights_by_departure_date AS
SELECT f.*
FROM flights f
WHERE DATE(f.sch_departure_time) = CURRENT_DATE;

CREATE VIEW booking_for_flights AS
SELECT b.*
FROM booking b
JOIN flights f ON b.flight_id = f.flight_id
WHERE f.sch_departure_time >= CURRENT_DATE
AND f.sch_departure_time < CURRENT_DATE + INTERVAL '7 days';
```

```
[2025-11-19 08:49:49] [42601] ОШИБКА: ошибка синтаксиса (примерное положение: "'7 days'")
[2025-11-19 08:49:49] Позиция: 205
[2025-11-19 08:50:03] lab2_db.public> CREATE VIEW booking_for_flights AS
SELECT b.*
FROM booking b
JOIN flights f ON b.flight_id = f.flight_id
WHERE f.sch_departure_time >= CURRENT_DATE
AND f.sch_departure_time < CURRENT_DATE + INTERVAL '7 days'
[2025-11-19 08:50:03] completed in 28 ms
```

Bottom status bar: 11:51 CRLF UTF-8 4 spaces

The screenshot shows a PostgreSQL database management interface with the following components:

- Database Explorer**: Shows the database structure. Under the `postgres@localhost` connection, the `lab2_db` schema contains tables: airline, airport, baggage, baggage_check, boarding_pass, booking, booking_flight, flights, and columns: flight_id, sch_departure_time, and sch_arrival_time.
- Editor**: Displays two SQL files: `C:\...\1.sql` and `1.sql`. The `1.sql` file contains the following code:

```
6 CREATE VIEW booking_for_flights AS
7   SELECT * FROM flights f
8     WHERE f.sch_departure_time >= CURRENT_DATE
9       AND f.sch_departure_time < CURRENT_DATE + INTERVAL '7 days';
10
11   SELECT * FROM booking_for_flights;
12
13
14
15
16 CREATE VIEW popular_flights AS
17   SELECT f.departing_airport_id,
18         f.arriving_airport_id,
19         COUNT(b.booking_id) AS booking_count
20   FROM flights f
21   JOIN booking b ON f.flight_id = b.flight_id
22   GROUP BY f.departing_airport_id, f.arriving_airport_id
23   ORDER BY booking_count DESC
24   LIMIT 5;
```
- Output**: Shows the execution log for the `popular_flights` view creation:

```
[2025-11-19 08:55:02] lab2_db.public> CREATE VIEW popular_flights AS
[2025-11-19 08:55:02] lab2_db.public>   SELECT f.departing_airport_id,
[2025-11-19 08:55:02] lab2_db.public>         f.arriving_airport_id,
[2025-11-19 08:55:02] lab2_db.public>         COUNT(b.booking_id) AS booking_count
[2025-11-19 08:55:02] lab2_db.public>   FROM flights f
[2025-11-19 08:55:02] lab2_db.public>   JOIN booking b ON f.flight_id = b.flight_id
[2025-11-19 08:55:02] lab2_db.public>   GROUP BY f.departing_airport_id, f.arriving_airport_id
[2025-11-19 08:55:02] lab2_db.public>   ORDER BY booking_count DESC
[2025-11-19 08:55:02] lab2_db.public>   LIMIT 5
[2025-11-19 08:55:02] completed in 21 ms
```
- Files**: Shows the file system structure. The `lab8` folder contains `1.sql` and `Scratches and Consoles`.

The screenshot shows a PostgreSQL database management interface with the following components:

- Database Explorer**: Shows the database schema. Under the `postgres@localhost` connection, the `public` schema contains tables: `airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`, and columns: `flight_id`, `sch_departure_time`, and `sch_arrival_time`.
- Query Editor**: Displays the following SQL code:

```
CREATE VIEW popular_flights AS
SELECT f.departing_airport_id,
       f.arriving_airport_id,
       COUNT(b.booking_id) AS booking_count
FROM flights f
JOIN booking b 1<->1..n: ON f.flight_id = b.flight_id
GROUP BY f.departing_airport_id, f.arriving_airport_id
ORDER BY booking_count DESC
LIMIT 5;

CREATE VIEW specific_airline AS
SELECT f.*,
       a.airline_name
FROM flights f
JOIN airline a 1..n->1: ON f.airline_id = a.airline_id;

SELECT * FROM specific_airline
WHERE airline_name = 'Ethiopian Aerolines';
```
- Services**: Shows transaction history. A recent transaction for file `1.sql` took 472 ms.
- Output**: Shows the results of the query `SELECT * FROM specific_airline WHERE airline_name = 'Ethiopian Aerolines'`. The results are:

e_time	act_arrival_time	created_at	updated_at	airline_name
0:00.000000	2025-02-13 00:00:00.000000	2025-02-21 00:00:00.000000	2025-02-20 00:00:00.000000	Ethiopian Aerolines
0:00.000000	2024-12-17 00:00:00.000000	2025-07-26 00:00:00.000000	2025-03-10 00:00:00.000000	Ethiopian Aerolines
0:00.000000	2024-09-29 00:00:00.000000	2025-02-04 00:00:00.000000	2025-02-08 00:00:00.000000	Ethiopian Aerolines
- Files**: Shows the file tree. The `lab8` folder contains `1.sql` and `Scratches and Consoles`.

The screenshot shows a PostgreSQL database management interface with the following components:

- Top Bar:** Includes icons for file operations (New, Open, Save, Close, Print), a search bar, and a settings gear icon.
- Database Explorer:** Shows the database structure for `postgres@localhost`. It includes a tree view of schemas (`information_schema`, `pg_catalog`, `public`) and tables (`airline`, `airport`, `baggage`, `baggage_check`, `boarding_pass`, `booking`, `booking_flight`, `flights`). The `flights` table is expanded, showing columns: `flight_id` (integer), `sch_departure_time` (time), and `sch_arrival_time` (timestamp).
- Code Editor:** Displays two SQL scripts: `C:\...\1.sql` and `1.sql`. The `1.sql` script contains the following code:

```
CREATE OR REPLACE VIEW specific_airline AS
SELECT f.*,
       a.airline_name
FROM flights f
JOIN airline a 1..n<->1: ON f.airline_id = a.airline_id
WHERE f.sch_departure_time >= CURRENT_DATE
AND f.sch_departure_time < CURRENT_DATE + INTERVAL'7 days';

CREATE VIEW delayed AS
SELECT f.flight_id,
       (f.act_arrival_time - f.sch_arrival_time) AS delay_interval
FROM flights f
WHERE (f.act_arrival_time - f.sch_arrival_time) > INTERVAL '24 hours';
```
- Services:** Shows transaction history for the `postgres@localhost` database, listing the execution of `1.sql` (44 ms).
- Output:** Shows the results of the executed queries. The first query creates the `specific_airline` view, and the second creates the `delayed` view. Both queries completed quickly (17 ms and 13 ms respectively).
- File Explorer:** Shows files in the `Lab3` and `lab8` directories, including the `1.sql` file used in the editor.

The screenshot shows a PostgreSQL database management interface with the following components:

- Database Explorer**: Shows the database schema. Under the `postgres@localhost` connection, the `public` schema is expanded, showing tables like `airline`, `airport`, `baggage`, etc., and their columns.
- Query Editor**: Displays two SQL scripts. The first script creates a view named `specific_airline` that selects airline names from flights and airline tables. The second script creates or replaces the same view with additional filtering for flights scheduled to depart within the next 7 days.
- Output Panel**: Shows the execution results of the second query. It includes the SQL command, execution time (47 ms), and a log message indicating 3 rows were retrieved starting from 1 in 431 ms.
- Services**: Shows a transaction history with one entry for the `1.sql` file.
- File Explorer**: Shows files in the `Lab3` and `lab8` directories, including the `1.sql` file used in the query editor.

```
CREATE VIEW specific_airline AS
SELECT f.*,
       a.airline_name
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id;

SELECT * FROM specific_airline
WHERE airline_name = 'Ethiopian Aerolines';

CREATE OR REPLACE VIEW specific_airline AS
SELECT f.*,
       a.airline_name
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id
WHERE f.sch_departure_time >= CURRENT_DATE
      AND f.sch_departure_time < CURRENT_DATE + INTERVAL'7 days';
```

```
Output lab2_db.public.specific_airline
WHERE airline_name = 'Ethiopian Aerolines'
[2025-11-19 08:59:33] 3 rows retrieved starting from 1 in 431 ms (execution: 16 ms, fetching: 415 ms)
[2025-11-19 09:03:33] lab2_db.public> CREATE OR REPLACE VIEW specific_airline AS
          SELECT f.*,
                 a.airline_name
          FROM flights f
         JOIN airline a ON f.airline_id = a.airline_id
          WHERE f.sch_departure_time >= CURRENT_DATE
              AND f.sch_departure_time < CURRENT_DATE + INTERVAL'7 days'
[2025-11-19 09:03:33] completed in 17 ms
```

L Lab3 Version control

Database Explorer

C:\...\1.sql 1.sql

CREATE VIEW book_platform AS
SELECT passengers.passenger_id, passengers.name,
 p.country_of_citizenship
FROM passengers p
JOIN booking b 1<->1..n: ON p.passenger_id = b.passenger_id
WHERE b.booking_platform = 'Leffler-Thompson';

SELECT * FROM book_platform;

CREATE VIEW top_10_countries AS
SELECT arr.country,
 count(*) AS count
FROM flights f
JOIN airport arr 1..n->1: ON f.arriving_airport_id = arr.airport_id
GROUP BY arr.country
ORDER BY count DESC
LIMIT 10;

SELECT * FROM top_10_countries;

Files

Lab3 C:\Users\amina\Desktop
lab8 C:\Users\amina\Desktop
1.sql [postgres@localhost]
Scratches and Consoles

Services

Tx + ⚡ ✎

Database postgres@localhost
1.sql 422 ms
1.sql

Output lab2_db.public.top_10_countries

country	count
France	6
Japan	3
Indonesia	3
China	3
Syria	2
Thailand	1
Brazil	1
Malaysia	1

8 rows

lab8 > 1.sql

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