```sql
-- task 1
SELECT f.*
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id
WHERE a.airline_name = 'Air India';
```

airport_db/postgres@PostgreSQL 17
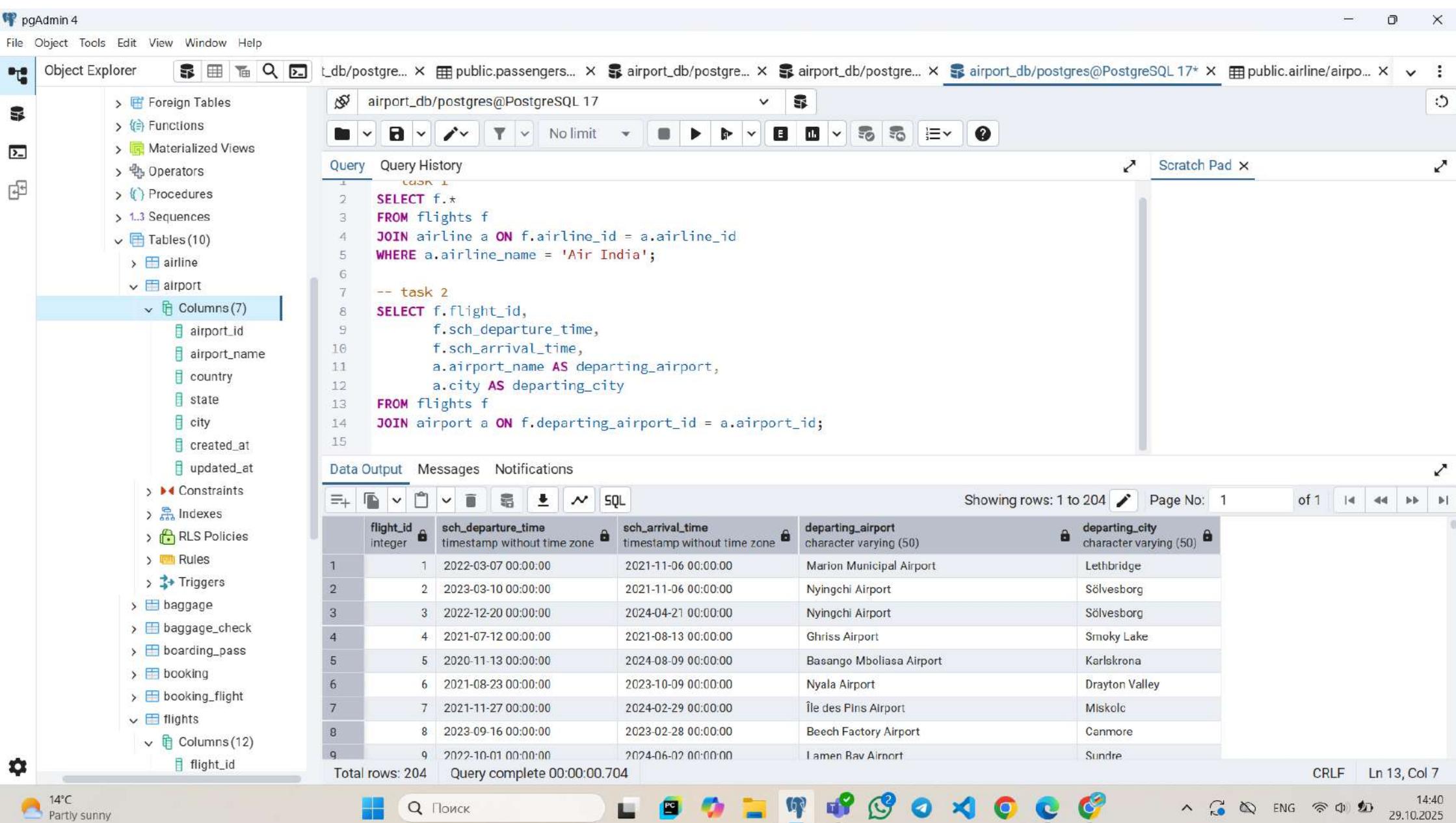
Query   Query History

Scratch Pad

Data Output   Messages   Notifications

	flight_id [PK] integer	sch_departure_time timestamp without time zone	sch_arrival_time timestamp without time zone	departing_airport_id integer	arriving_airport_id integer	departing_gate text	arriving_gate character varying (50)	airline_id integer	act_depar timestamp
1	10	2023-10-03 00:00:00	2022-10-25 00:00:00	368	390	THE	YCB	129	2023-11-2
2	13	2021-03-27 00:00:00	2023-06-18 00:00:00	416	465	SWW	YDO	152	2022-10-1
3	14	2023-01-02 00:00:00	2022-11-22 00:00:00	305	409	SPQ	ODD	179	2025-09-1
4	129	2023-02-18 00:00:00	2021-04-08 00:00:00	420	312	EPS	CGQ	179	2021-03-2
5	158	2020-11-06 00:00:00	2023-04-06 00:00:00	400	323	TQQ	CFF	152	2022-07-0
6	164	2025-08-22 00:00:00	2025-04-23 00:00:00	433	304	EDQ	KRA	17	2023-04-3
7	191	2025-03-27 00:00:00	2021-02-24 00:00:00	406	424	SKA	DEE	21	2023-05-0

Showing rows: 1 to 7   Page No: 1   of 1

Total rows: 7   Query complete 00:00:00.134   CRLF   Ln 4, Col 13

```sql
-- task 1
SELECT f.*
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id
WHERE a.airline_name = 'Air India';

-- task 2
SELECT f.flight_id,
       f.sch_departure_time,
       f.sch_arrival_time,
       a.airport_name AS departing_airport,
       a.city AS departing_city
FROM flights f
JOIN airport a ON f.departing_airport_id = a.airport_id;
```

	flight_id integer	sch_departure_time timestamp without time zone	sch_arrival_time timestamp without time zone	departing_airport character varying (50)	departing_city character varying (50)
1	1	2022-03-07 00:00:00	2021-11-06 00:00:00	Marion Municipal Airport	Lethbridge
2	2	2023-03-10 00:00:00	2021-11-06 00:00:00	Nyingchi Airport	Sölvesborg
3	3	2022-12-20 00:00:00	2024-04-21 00:00:00	Nyingchi Airport	Sölvesborg
4	4	2021-07-12 00:00:00	2021-08-13 00:00:00	Ghriss Airport	Smoky Lake
5	5	2020-11-13 00:00:00	2024-08-09 00:00:00	Basango Mboliasa Airport	Karlskrona
6	6	2021-08-23 00:00:00	2023-10-09 00:00:00	Nyala Airport	Drayton Valley
7	7	2021-11-27 00:00:00	2024-02-29 00:00:00	Île des Pins Airport	Miskolc
8	8	2023-09-16 00:00:00	2023-02-28 00:00:00	Beech Factory Airport	Canmore
9	9	2022-10-01 00:00:00	2024-06-02 00:00:00	Lamen Bay Airport	Sundre

Total rows: 204   Query complete 00:00:00.704

```sql
         f.sch_arrival_time,
         a.airport_name AS departing_airport,
         a.city AS departing_city
FROM flights f
JOIN airport a ON f.departing_airport_id = a.airport_id;

-- task 3
SELECT a.airline_name
FROM airline a
WHERE a.airline_id NOT IN (
    SELECT f.airline_id
    FROM flights f
    WHERE f.sch_departure_time BETWEEN CURRENT_DATE
                                 AND (CURRENT_DATE + INTERVAL '1 month')
);
```

Data Output   Messages   Notifications

Showing rows: 1 to 209   Page No: 1   of 1

	airline_name character varying (50)
1	Iberia
2	Cathay Pacific
3	Alitalia
4	Southwest Airlines
5	American Airlines
6	SAS Scandinavian
7	LATAM Airlines
8	SAS Scandinavian

Total rows: 209   Query complete 00:00:00.737

✓ Successfully run. Total query runtime: 737 msec. 209 rows affected. ✕

CRLF   Ln 21, Col 11

File Object Tools Edit View Window Help

Object Explorer

t_db/postgre... × airport_db/postgre... × public.passengers... × airport_db/postgres@PostgreSQL 17* × public.flights/airp... × public.booking/air... ×

> Procedures
> 1.3 Sequences
> Tables (10)
  > airline
  > airport
    > Columns (7)
      airport_id
      airport_name
      country
      state
      city
      created_at
      updated_at
    > Constraints
    > Indexes
    > RLS Policies
    > Rules
    > Triggers
  > baggage
  > baggage_check
  > boarding_pass
  > booking
  > booking_flight
  > flights
    > Columns
    > Constraints
    > Indexes
    > RLS Policies
    > Rules
    > Triggers
  > passengers

airport_db/postgres@PostgreSQL 17

No limit

Query   Query History   Scratch Pad ×

```sql
17  -- task 3
18  SELECT a.airline_name
19  FROM airline a
20  WHERE a.airline_id NOT IN (
21      SELECT f.airline_id
22      FROM flights f
23      WHERE f.sch_departure_time BETWEEN CURRENT_DATE
24                                     AND (CURRENT_DATE + INTERVAL '1 month')
25  );
26
27  -- task 4
28  SELECT p.first_name, p.last_name, p.passport_number
29  FROM passengers p
30  JOIN booking b ON p.passenger_id = b.passenger_id
31  WHERE b.flight_id = 84;
```

Data Output   Messages   Notifications

Showing rows: 1 to 4   Page No: 1   of 1

	first_name character varying (50)	last_name character varying (50)	passport_number character varying (20)
1	Harrie	Collis	Y2779986
2	Jeannette	Alexandersen	K4996072
3	Stavros	Maro	C7383169
4	Jerome	Sprasen	X5461025

Total rows: 4   Query complete 00:00:00.934   CRLF   Ln 31, Col 23

File Object Tools Edit View Window Help

Object Explorer

> Procedures
> 1.3 Sequences
> Tables (10)
  > airline
  > airport
    > Columns (7)
        airport_id
        airport_name
        country
        state
        city
        created_at
        updated_at
    > Constraints
    > Indexes
    > RLS Policies
    > Rules
    > Triggers
  > baggage
  > baggage_check
  > boarding_pass
  > booking
  > booking_flight
  > flights
    > Columns
    > Constraints
    > Indexes
    > RLS Policies
    > Rules
    > Triggers
  > passengers

airport_db/postgres@PostgreSQL 17

Query Query History

```
27    -- task 4
28    SELECT p.first_name, p.last_name, p.passport_number
29    FROM passengers p
30    JOIN booking b ON p.passenger_id = b.passenger_id
31    WHERE b.flight_id = 84;
32
33    -- task 5
34    SELECT flight_id,
35          AVG(ticket_price) AS average_price,
36          SUM(ticket_price) AS total_price,
37          MAX(ticket_price) AS max_price,
38          MIN(ticket_price) AS min_price
39    FROM booking
40    GROUP BY flight_id;
41
```

Scratch Pad ✕

Data Output   Messages   Notifications

	flight_id integer	average_price numeric	total_price numeric	max_price numeric	min_price numeric
1	116	3.2900000000000000	3.29	3.29	3.29
2	87	4.1350000000000000	8.27	6.99	1.28
3	71	29.9900000000000000	29.99	29.99	29.99
4	146	25.0000000000000000	25.00	25.00	25.00
5	52	1.7200000000000000000	1.72	1.72	1.72
6	190	3.9900000000000000	3.99	3.99	3.99
7	162	5.9900000000000000	5.99	5.99	5.99
8	84	4.3250000000000000	17.30	7.99	1.72
9	170	1.2900000000000000000	2.58	1.72	0.86

Showing rows: 1 to 125   Page No: 1   of 1

✓ Successfully run. Total query runtime: 184 msec. 125 rows affected. ✕

Total rows: 125   Query complete 00:00:00.184

CRLF   Ln 37, Col 24

t_db/postgre... × ⊞ public.passengers... × airport_db/postgres@PostgreSQL 17* × ⊞ public.flights/airp... × ⊞ public.booking/air... × ⊞ public.airport/airp... ×

> Procedures
> 1.3 Sequences
∨ Tables (10)
  > ⊞ airline
  ∨ ⊞ airport
    ∨ Columns (7)
      airport_id
      airport_name
      country
      state
      city
      created_at
      updated_at
    > Constraints
    > Indexes
    > RLS Policies
    > Rules
    > Triggers
  > ⊞ baggage
  > ⊞ baggage_check
  > ⊞ boarding_pass
  > ⊞ booking
  > ⊞ booking_flight
  ∨ ⊞ flights
    > Columns
    > Constraints
    > Indexes
    > RLS Policies
    > Rules
    > Triggers
  > ⊞ passengers

airport_db/postgres@PostgreSQL 17

No limit

Query Query History

```sql
37        MAX(ticket_price) AS max_price,
38        MIN(ticket_price) AS min_price
39 FROM booking
40 GROUP BY flight_id;
41
42 -- task 6
43 SELECT f.flight_id,
44        a.airline_name,
45        a_arr.airport_name,
46        a_arr.country
47 FROM flights f
48 JOIN airline a ON f.airline_id = a.airline_id
49 JOIN airport a_arr ON f.arriving_airport_id = a_arr.airport_id
50 WHERE a_arr.country = 'Japan';
51
```

Scratch Pad ×

Data Output Messages Notifications

	flight_id integer	airline_name character varying (50)	airport_name character varying (50)	country character varying (50)
1	15	Iberia	Ambohibary Airport	Japan
2	26	FlyHigh	Snap Lake Airport	Japan
3	43	Emirates	Nyala Airport	Japan
4	46	SAS Scandinavian	Nauru International Airport	Japan
5	50	Air New Zealand	Nevatim Air Base	Japan
6	52	Qatar Airways	Mokhotlong Airport	Japan
7	55	Thai Airways	Mostar International Airport	Japan
8	68	Aerom?xico	Nevatim Air Base	Japan
9	88	American Airlines	Nauru International Airport	Japan

Total rows: 19   Query complete 00:00:00.241

✓ Successfully run. Total query runtime: 241 msec. 19 rows affected. ×

CRLF   Ln 50, Col 29

```
47    FROM flights f
48    JOIN airline a ON f.airline_id = a.airline_id
49    JOIN airport a_arr ON f.arriving_airport_id = a_arr.airport_id
50    WHERE a_arr.country = 'Japan';
51
52    -- task 7
53    SELECT
54        p.passenger_id,
55        p.first_name,
56        p.last_name,
57        b.flight_id
58    FROM passengers p
59    JOIN booking b ON p.passenger_id = b.passenger_id
60    WHERE p.date_of_birth > CURRENT_DATE - INTERVAL '18 years';
61
```

Data Output   Messages   Notifications

	passenger_id integer	first_name character varying (50)	last_name character varying (50)	flight_id integer
1	213	Aldwin	Pain	101
2	228	Orlando	Thompson	101
3	229	Christyna	Coupar	102
4	230	Fidelity	Meers	102
5	233	Cora	Gahan	104
6	234	Warren	Frudd	104
7	235	Julieta	Given	105
8	236	Aldwin	Pain	105
9	237	Leonelle	Rentilll	106

Total rows: 9   Query complete 00:00:00.165

Successfully run. Total query runtime: 165 msec. 9 rows affected.

CRLF   Ln 54, Col 20

```sql
      p.last_name,
      b.flight_id
FROM passengers p
JOIN booking b ON p.passenger_id = b.passenger_id
WHERE p.date_of_birth > CURRENT_DATE - INTERVAL '18 years';

-- task 8
SELECT
      p.first_name || ' ' || p.last_name AS full_name,
      p.passport_number,
      f.act_arrival_time AS arrival_time
FROM passengers p
JOIN booking b ON p.passenger_id = b.passenger_id
JOIN flights f ON b.flight_id = f.flight_id;
```

Data Output   Messages   Notifications

	full_name text	passport_number character varying (20)	arrival_time timestamp without time zone
1	Stavros Maro	C7383169	2025-03-12 00:00:00
2	Robbie Maccari	C0102888	2024-05-24 00:00:00
3	Shelia Bracher	H0781732	2024-01-06 00:00:00
4	Jeannette Alexandersen	K4996072	2024-01-19 00:00:00
5	Harwell Earey	U9627648	2024-10-13 00:00:00
6	Virgilio Droogan	J6288187	2024-03-13 00:00:00
7	Harrie Collis	Y2779986	2024-01-19 00:00:00
8	Muffin Muffin	Q0836895	2021-01-18 00:00:00
9	Gavan Ickowics	G3037793	2023-08-20 00:00:00

Total rows: 215   Query complete 00:00:01.039

```
-- task 9
SELECT
    a_origin.country AS airport_country,
    f.flight_id,
    al.airline_name
FROM flights f
JOIN airline al ON f.airline_id = al.airline_id
JOIN airport a_origin ON f.departing_airport_id = a_origin.airport_id
WHERE al.airline_country = a_origin.country
GROUP BY a_origin.country, f.flight_id, al.airline_name;
```

	airport_country character varying (50)	flight_id integer	airline_name character varying (50)
1	Australia	171	Air Canada
2	France	109	Southwest Airlines
3	Germany	124	South African Airways
4	Spain	106	Air Canada
5	Germany	27	American Airlines
6	Germany	2	South African Airways
7	France	118	Qatar Airways
8	Japan	94	Cathay Pacific
9	India	22	Aerom?xico

Total rows: 16   Query complete 00:00:00.373

Successfully run. Total query runtime: 373 msec. 16 rows affected.