

1.

pgAdmin 4

Object Explorer

- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- airport
 - Columns (7)
 - airport_id
 - airport_name
 - country
 - state
 - city
 - created_at
 - updated_at

Query

```

SELECT f.* FROM flights f
JOIN airline a on a.airline_id = f.airline_id
WHERE a.airline_name= 'KMA';
  
```

Data Output

flight_id [PK] integer	flight_no character varying (50)	scheduled_departure date	scheduled_arrival date	departure_airport_id integer	arrival_airport_id integer	departing_gate character varying (50)	arriving_gate character varying (50)	airline_id integer	status character varying (50)	actual_dep date
1	19	NZ-WKO	2024-02-13	2024-03-04	8	5	10	561	43	Delayed
2	27	UZ-SU	2023-05-13	2023-05-24	11	2	1027	190	43	Delayed
3	38	AU-NT	2023-04-29	2023-09-29	18	8	[null]	2317	43	Boarding
4	86	AU-NT	2023-04-29	2023-06-29	11	16	[null]	238	43	Boarding
5	236	CA-NL	2023-04-05	2023-09-27	4	10	180	423	43	Boarding
6	244	SB-WE	2023-05-08	2023-12-15	20	19	32	65	43	Delayed
7	278	US-NY	2023-04-10	2023-09-11	17	18	234	4095	43	Delayed
8	358	PO-SAN	2023-04-06	2024-02-29	3	13	10	8	43	Boarding
9	389	US-NC	2023-09-09	2023-05-07	1	1	2165	[null]	43	Boarding
10	398	FR-T	2023-06-23	2024-03-12	8	6	436	4198	43	Boarding
11	431	CN-37	2023-07-01	2023-03-29	19	10	145	4400	43	Delayed
12	440	US-CA	2023-08-23	2023-06-06	9	17	1602	29	43	Delayed
13	469	AU-OLD	2023-06-25	2024-02-18	10	4	891	4685	43	Boarding
14	497	CD-OR	2023-08-21	2023-07-28	19	1	2438	4	43	Boarding
15	519	US-KS	2024-01-11	2023-05-16	15	6	2885	640	43	Delayed
16	523	CD-BN	2024-03-03	2024-02-22	6	12	1365	1028	43	Delayed
17	549	BF-NAM	2023-11-08	2024-02-25	19	20	984	30		
18	607	EH-U-A	2024-01-05	2024-02-22	3	9	350	19		
19	619	BR-MA	2023-11-15	2023-09-17	11	19	400	432		
20	639	EC-S	2024-03-08	2023-06-20	20	1	3116	302		
21	753	LS-G	2023-10-04	2024-01-26	1	14	5350	656		

Total rows: 31 Query complete 00:00:00.102

You are currently running version 9.6 of pgAdmin 4, however the current version is 9.9. Please click [here](#) for more information.

2.

pgAdmin 4

Object Explorer

- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- airport
 - Columns (7)
 - airport_id
 - airport_name
 - country
 - state
 - city
 - created_at
 - updated_at

Query

```

WHERE a.airline_name= 'KMA';
--2
SELECT f.flight_id,
f.flight_no,
a.airport_name AS departure_airport
FROM flights f
JOIN airport a ON f.departure_airport_id = a.airport_id;
  
```

Data Output

flight_id integer	flight_no integer	departure_airport character varying (50)
1	1	Elorza Airport
2	2	Figari Sud-Corse Airport
3	3	Darchula Airport
4	4	Lime Acres Finch Mine Airport
5	5	Hana Airport
6	6	Darchula Airport
7	7	Ocean Falls Seaplane Base
8	8	Figari Sud-Corse Airport
9	9	Hana Airport
10	10	Longana Airport
11	11	Delta County Airport
12	12	Elorza Airport
13	13	Figari Sud-Corse Airport
14	14	Darchula Airport
15	15	Akunaq Heliport
16	16	Zephyrhills Municipal Airport
17	17	Figari Sud-Corse Airport
18	18	Fort Worth Alliance Airport
19	19	Fort Worth Alliance Airport
20	20	Henri Coandă International Airport
21	21	Tom Price Airport

Total rows: 1000 Query complete 00:00:00.100

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3.

Object Explorer

- Triggers
 - booking_flight
 - Columns (5)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - update_at
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- flights
 - Columns (14)
 - flight_id
 - flight_no
 - scheduled_departure
 - scheduled_arrival
 - departure_airport_id
 - arrival_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - status
 - actual_departure
 - actual_arrival
 - created_at
 - update_at
- passengers
 - Columns (10)
 - passenger_id
 - first_name
 - last_name
 - date_of_birth
 - gender

Query

```
--3
SELECT a.airline_id, a.airline_name
FROM airline a
LEFT JOIN flights f ON a.airline_id = f.airline_id
AND f.scheduled_departure >= date_trunc('month', CURRENT_DATE + interval '1 month')
AND f.scheduled_departure < date_trunc('month', CURRENT_DATE + interval '2 month')
WHERE f.flight_id IS NULL;
```

Data Output

airline_id	airline_name
20	SSL
25	CLY
26	YHB
27	KKL
11	IVA
39	OYA
17	YLP
33	BLD
31	YEK
34	SMM
12	KOQ
10	SOZ

Total rows: 50 Query complete 00:00:00.078

4.

Object Explorer

- created_at
- update_at
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- airport
- baggage
- baggage_check
- boarding_pass
- booking
 - Columns (8)
 - booking_id
 - passenger_id
 - booking_platform
 - created_at
 - update_at
 - status
 - price
 - ticket_discount
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
 - booking_flight
 - Columns (9)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - update_at
 - flights
 - Columns (14)
 - flight_id
 - flight_no

Query

```
--4
SELECT p.* FROM passengers p
JOIN booking b ON p.passenger_id = b.passenger_id
JOIN booking_flight bf ON b.booking_id = bf.booking_id
JOIN flights f ON f.flight_id = bf.flight_id
WHERE f.flight_no = 'AU_TAS';
```

Data Output

passenger_id	first_name	last_name	date_of_birth	gender	country_of_citizenship	country_of_residence	passport_number	created_at	update_at

Total rows: 0 Query complete 00:00:00.100

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Please click [here](#) for more information.

5.

airport_2/postgres@PostgreSQL 17

Query Query History

```

5617 --5
5618 SELECT f.flight_no,
5619 AVG(price) AS average_price,
5620 SUM(b.price) AS sum_of_price,
5621 MAX(b.price) AS max_price,
5622 MIN(b.price) AS min_price
5623 FROM booking b
5624 JOIN booking_flight bf ON b.booking_id = bf.booking_id
5625 JOIN flights f ON bf.flight_id = f.flight_id
5626 GROUP BY f.flight_no;
5627

```

Data Output Messages Notifications

Showing rows: 1 to 384 Page No: 1 of 1

flight_no	average_price	sum_of_price	max_price	min_price
FR-O	743.57000000000000000000	743.57	743.57	743.57
ZA-NL	3448.90500000000000000000	6897.81	4871.92	2025.89
AF-FRA	7638.55000000000000000000	7638.55	7638.55	7638.55
CH-NE	3239.01500000000000000000	6478.03	4626.45	1851.58
HR-18	1682.51000000000000000000	1682.51	1682.51	1682.51
US-NV	5642.37000000000000000000	5642.37	5642.37	5642.37
CA-AB	4395.23333333333333333333	13185.70	5203.21	2779.28
BR-PA	1676.71000000000000000000	1676.71	1676.71	1676.71
UA-32	2357.85500000000000000000	4715.71	3194.55	1521.16
RU-SAK	1431.27500000000000000000	5725.10	2333.07	127.04
AU-WA	4330.85600000000000000000	43308.56	7596.90	743.57
VU-SEE	2494.15000000000000000000	2494.15	2494.15	2494.15
BR-OO	3098.00000000000000000000	3098.00	3098.00	3098.00
UA-46	2990.91000000000000000000	5981.82	5545.62	436.20
RU-YAN	6955.15000000000000000000	6955.15	6955.15	6955.15
AZ-BA	5899.28000000000000000000	11798.56	8217.56	3581.00
IN-WB	3330.05000000000000000000	6660.10	4252.91	2407.19
DZ-33	7460.76000000000000000000	7460.76	7460.76	7460.76
AF-GHA	4099.20000000000000000000	4099.20	4099.20	4099.20
DE-SH	3585.08000000000000000000	7170.16	6564.75	605.41
GB-NIR	4157.33000000000000000000	4157.33	4157.33	4157.33

Total rows: 384 Query complete 00:00:00.104

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Please click [here](#) for more information.

CRLF Ln 5626, Col 1

6.

Object Explorer

airport_2/postgres@PostgreSQL 17

Query Query History

```

5627 --6
5628 SELECT f.flight_no, a.airline_name, ar, airport_name, ar country
5629 FROM flights f
5630 JOIN airline a ON f.airline_id = a.airline_id
5631 JOIN airport ar ON f.arrival_airport_id = ar.airport_id
5632 WHERE ar.country like 'SA'
5633
5634
5635
5636
5637
5638

```

Data Output Messages Notifications

Showing rows: 1 to 384 Page No: 1 of 1

flight_no	airline_name	ar	airport_name	country
FR-O	airline_name	ar	airport_name	country
ZA-NL	airline_name	ar	airport_name	country
AF-FRA	airline_name	ar	airport_name	country
CH-NE	airline_name	ar	airport_name	country
HR-18	airline_name	ar	airport_name	country
US-NV	airline_name	ar	airport_name	country
CA-AB	airline_name	ar	airport_name	country
BR-PA	airline_name	ar	airport_name	country
UA-32	airline_name	ar	airport_name	country
RU-SAK	airline_name	ar	airport_name	country
AU-WA	airline_name	ar	airport_name	country
VU-SEE	airline_name	ar	airport_name	country
BR-OO	airline_name	ar	airport_name	country
UA-46	airline_name	ar	airport_name	country
RU-YAN	airline_name	ar	airport_name	country
AZ-BA	airline_name	ar	airport_name	country
IN-WB	airline_name	ar	airport_name	country
DZ-33	airline_name	ar	airport_name	country
AF-GHA	airline_name	ar	airport_name	country
DE-SH	airline_name	ar	airport_name	country
GB-NIR	airline_name	ar	airport_name	country

Total rows: 0 Query complete 00:00:00.078

Successfully run. Total query runtime: 78 msec. 0 rows affected.

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Please click [here](#) for more information.

CRLF Ln 5626, Col 1

7.

Object Explorer

- created_at
- update_at
- status
- price
- ticket_discount
- Constraints
- Indexes
- RLS Policies
- Rules
- Triggers
- booking_flight
 - Columns (5)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- flights
 - Columns (14)
 - flight_id
 - flight_no
 - scheduled_departure
 - scheduled_arrival
 - departure_airport_id
 - arrival_airport_id
 - departing_gate
 - arriving_gate
 - airline_id
 - status
 - actual_departure
 - actual_arrival
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules

Query

```

5632 JOIN airport ar ON f.arrival_airport_id = ar.airport_id
5633 WHERE ar.country like 'SA'
5634
5635
5636
5637
5638 SELECT p.first_name, p.last_name,
5639        p.date_of_birth, ar.airport_name,
5640        AS arrival_airport,
5641        ar.country AS arrival_country,
5642        f.actual_arrival
5643 FROM passengers p
5644 JOIN booking b ON p.passenger_id = b.passenger_id
5645 JOIN booking_flight bf ON b.booking_id = bf.booking_id
5646 JOIN flights f ON bf.flight_id = f.flight_id
5647 JOIN airport ar ON f.arrival_airport_id = ar.airport_id
5648 WHERE AGE(CURRENT_DATE, p.date_of_birth) < INTERVAL '18 years';
5649
5650
5651
5652
5653
5654

```

Data Output

first_name	last_name	date_of_birth	arrival_airport	arrival_country	actual_arrival
character varying (50)	character varying (50)	date	character varying (50)	character varying (50)	date

Total rows: 0 Query complete 00:00:00.082

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CRLF Ln 5642, Col 18

8.

pgAdmin 4

Object Explorer

- RLS Policies
- Rules
- Triggers
- airport
 - Columns (7)
 - airport_id
 - airport_name
 - country
 - state
 - city
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- baggage
 - baggage_check
 - boarding_pass
- booking
 - Columns (8)
 - booking_id
 - passenger_id
 - booking_platform
 - created_at
 - update_at
 - status
 - price
 - ticket_discount
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- booking_flight
 - Columns (5)
 - booking_flight_id
 - booking_id
 - flight_id
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers

Query

```

5642 FROM passengers p
5643 JOIN booking b ON p.passenger_id = b.passenger_id
5644 JOIN booking_flight bf ON b.booking_id = bf.booking_id
5645 JOIN flights f ON bf.flight_id = f.flight_id
5646 JOIN airport ar ON f.arrival_airport_id = ar.airport_id
5647 WHERE AGE(CURRENT_DATE, p.date_of_birth) < INTERVAL '18 years';
5648
5649
5650
5651
5652 SELECT p.first_name || ' ' || p.last_name AS full_name,
5653        p.passport_number,
5654        ar.country,
5655        f.actual_arrival
5656 FROM passengers p
5657 JOIN booking b ON p.passenger_id = b.passenger_id
5658 JOIN booking_flight bf ON b.booking_id = bf.booking_id
5659 JOIN flights f ON bf.flight_id = f.flight_id
5660 JOIN airport ar ON f.arrival_airport_id = ar.airport_id
5661
5662
5663
5664

```

Data Output

full_name	passport_number	country	actual_arrival	
text	character varying (30)	character varying (50)	date	
1	Muhammad Fasi	109932770-9	Poland	2023-07-18
2	Trevor Broun	788025864-7	Indonesia	2024-02-11
3	Auria Breffitt	570537341-4	China	2023-07-11
4	Archie Toffel	677556708-1	Indonesia	2023-06-17
5	Sanders Biddies	514546405-3	Indonesia	2023-09-05
6	Sanders Biddies	514546405-3	China	2024-03-01
7	Remington Piggot	470074456-1	Tanzania	2023-05-31
8	Olynis Marie	209933120-0	Russia	2024-02-02
9	Cesaro McDiennis	364900190-X	China	2023-04-03
10	Con Bonnel	837859465-3	Philippines	2024-02-15
11	Lorianna Robbie	435354132-3	Tanzania	2024-01-19
12	Brad Apperley	842288763-0	China	2024-02-10

Total rows: 1000 Query complete 00:00:00.091

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CRLF Ln 5662, Col 1

9.

File Object Tools Edit View Window Help

Object Explorer

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 - Functions
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 - Operators
 - Procedures
 - Sequences
 - Tables (10)
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 - Columns (6)
 - airline_id
 - airline_code
 - airline_name
 - airline_country
 - created_at
 - update_at
 - Constraints
 - Indexes
 - RLS Policies
 - Rules
 - Triggers
- airport
 - Columns (7)
 - airport_id
 - airport_name
 - country
 - state
 - city
 - created_at

Query

```
--9
SELECT f.flight_no,
       a.airline_name,
       ar.country AS origin_country
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id
JOIN airport ar ON f.departure_airport_id = ar.airport_id
WHERE a.airline_country = ar.country
GROUP BY ar.country, f.flight_no, a.airline_name
```

Data Output

	flight_no character varying (50)	airline_name character varying (50)	origin_country character varying (50)
1	ID-FA	YHB	China
2	EE-39	KOO	Russia
3	VN-35	SSL	China
4	PG-SAN	KLE	Slovenia
5	CA-BC	GVA	China
6	US-NE	GVA	China
7	BR-MG	YHB	China
8	TZ-24	YEB	China
9	SE-AC	KIQ	China
10	US-AK	SOZ	Indonesia
11	GL-U-A	XLU	China
12	ID-MU	KIQ	China

Showing rows: 1 to 73 Page No: 1 of 1