

pgAdmin 4 Object Tools Edit View Window Help

pgAdmin 4

techdat/postgres@PostgreSQL 17\* x public.flights/tech... x

Object Explorer

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Query Query History

```
1 --5
2 explain analyze
3 select * from flights where departure_airport_id=6 and arrival_airport_id=15;
4
```

Data Output Messages Notifications

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

QUERY PLAN
text
1 Bitmap Heap Scan on flights (cost=4.31..12.03 rows=3 width=61) (actual time=0.558..0.585 rows=5 loops=1)
2 Recheck Cond: (((departure_airport_id = 6) AND (arrival_airport_id = 15)))
3 Heap Blocks: exact=4
4 -> Bitmap Index Scan on index_dep_arrival (cost=0.00..4.31 rows=3 width=0) (actual time=0.535..0.536 rows=5 loop=1)

Total rows: 7 Query complete 00:00:00.074 LF Ln 3, Col 78

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Query Query History

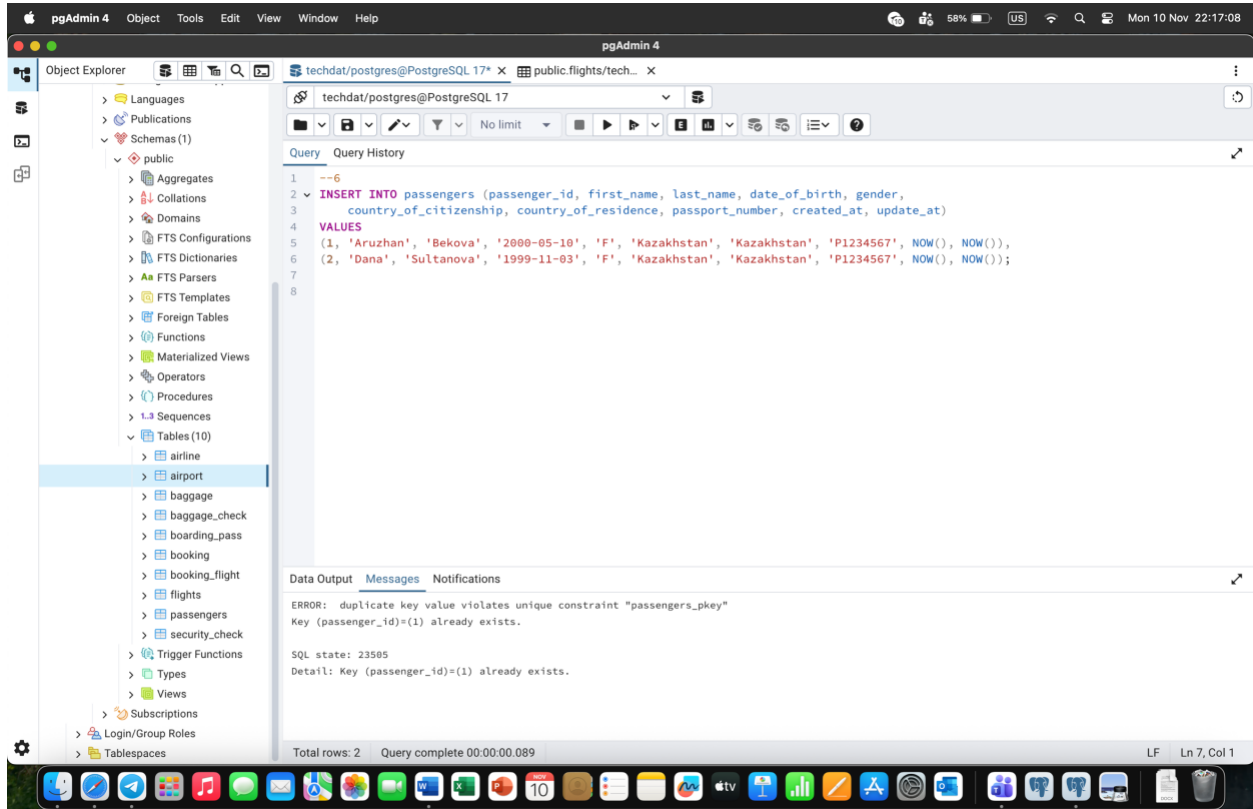
```
1 --4
2 --without index
3 set enable_indexscan=off;
4 explain analyze
5 select * from flights where actual_departure='2024-02-09';
6 --with index
7 set enable_indexscan=on;
8 explain analyze
9 select * from flights where actual_departure='2024-02-09';
10
```

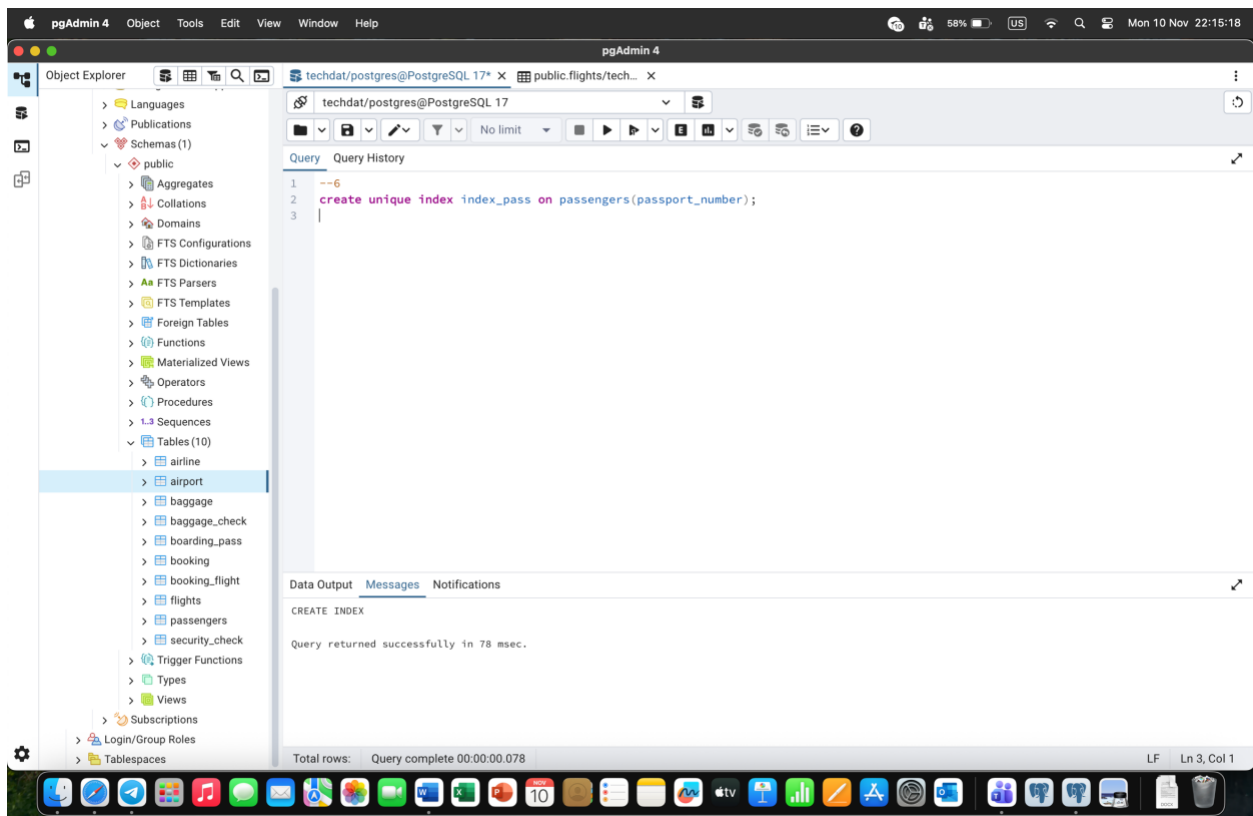
Data Output Messages Notifications

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

QUERY PLAN	
text	
1	Bitmap Heap Scan on flights (cost=4.29..9.96 rows=2 width=61) (actual time=0.012..0.013 rows=2 loops=1)
2	Recheck Cond: (actual_departure = '2024-02-09'::date)
3	Heap Blocks: exact=2
4	→ Bitmap Index Scan on idx_act_flight_dep (cost=0.00..4.29 rows=2 width=0) (actual time=0.006..0.006 rows=2 loop=1)

Total rows: 7 Query complete 00:00:00.112 LF Ln 9, Col 59





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Query

```
--7
1
2 explain analyze
3 select * from passengers where country_of_citizenship='Philippines' and date_of_birth between '1984-01-01' and '1984-12-31';
4
5
```

Query History

Data Output Messages Notifications

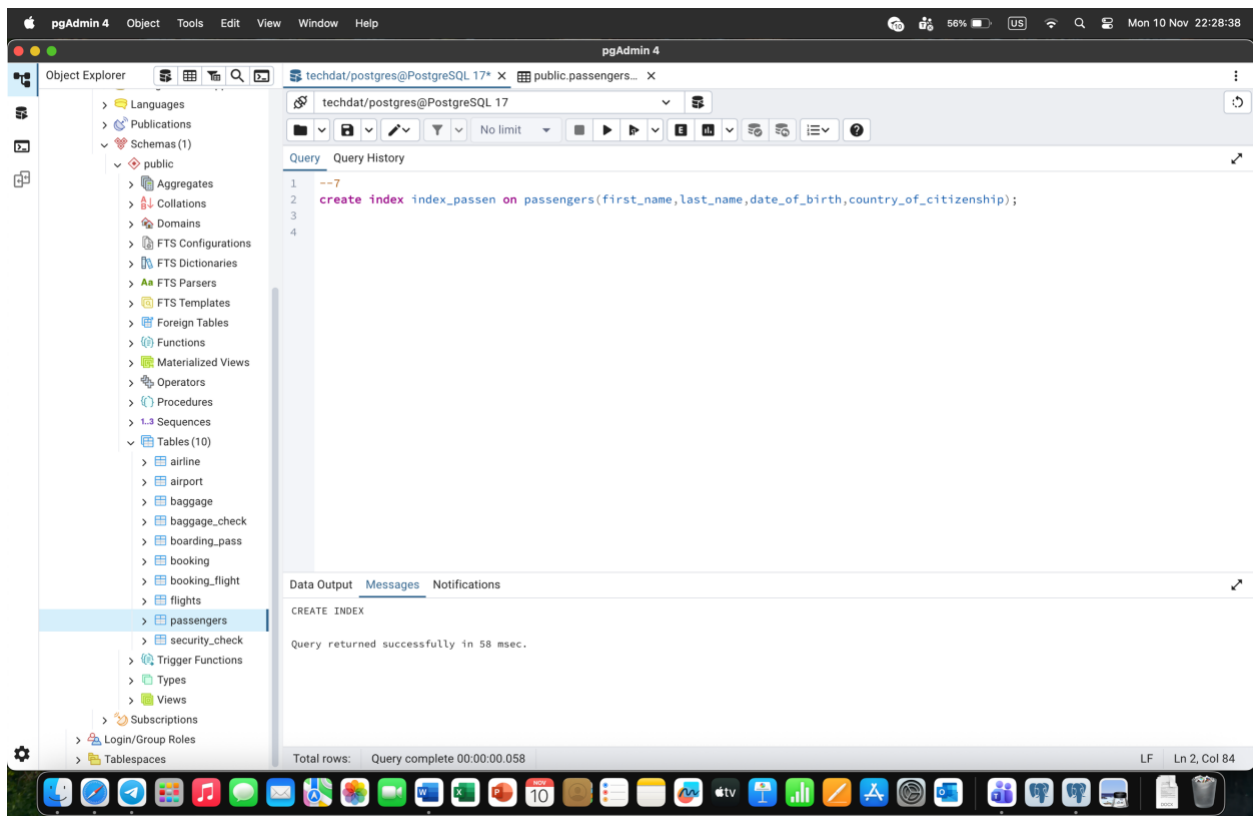
Showing rows: 1 to 5 Page No: 1 of 1

QUERY PLAN

text

1	Seq Scan on passengers (cost=0.00..6.50 rows=1 width=64) (actual time=0.202..0.240 rows=1 loops=1)
2	Filter: ((date_of_birth >= '1984-01-01'::date) AND (date_of_birth <= '1984-12-31'::date) AND ((country_of_citizenship)::text = 'Philippines'::te...
3	Rows Removed by Filter: 199
4	Planning Time: 3.713 ms

Total rows: 5 Query complete 00:00:00.059 LF Ln 3, Col 125







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Query Query History

```
1 --2
2 create index index_depar on flights(flight_no,scheduled_departure);
3
4
```

Data Output Messages Notifications

ERROR: relation "index\_depar" already exists

SQL state: 42P07

Total rows: Query complete 00:00:00.035

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Query Query History

```
1 --8
2 drop index if exists index_pass;
3 drop index if exists index_passen;
4
5
```

Data Output Messages Notifications

DROP INDEX

Query returned successfully in 65 msec.

Total rows: Query complete 00:00:00.065

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techdat/postgres@PostgreSQL 17\* X public.passengers... X

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Query Query History

```
--8
select indexname,indexdef from pg_indexes where tablename='passengers';
```

Data Output Messages Notifications

Showing rows: 1 to 3 Page No: 1 of 1

	indexname	indexdef
	name	text
1	passengers_pkey	CREATE UNIQUE INDEX passengers_pkey ON public.passengers USING btree (passenger_id)
2	index_pass	CREATE UNIQUE INDEX index_pass ON public.passengers USING btree (passport_number)
3	index_passen	CREATE INDEX index_passen ON public.passengers USING btree (first_name, last_name, date_of_birth, country_of_citizenship)

Total rows: 3 Query complete 00:00:00.085

LF Ln 2, Col 72