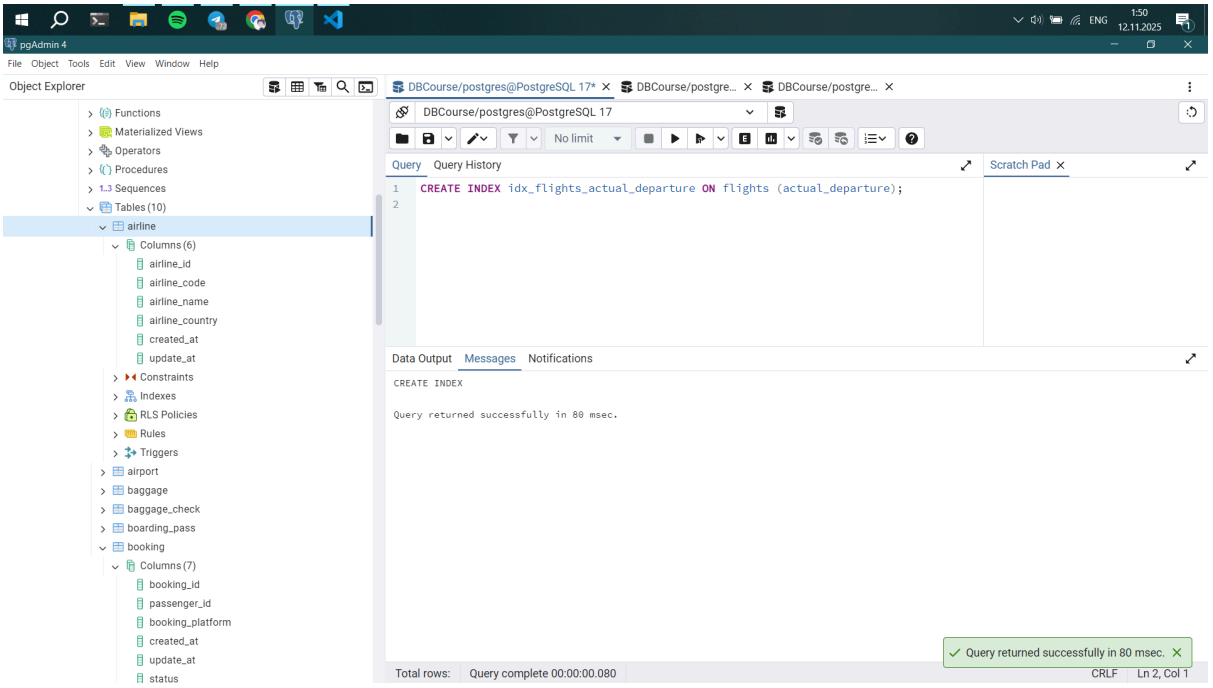
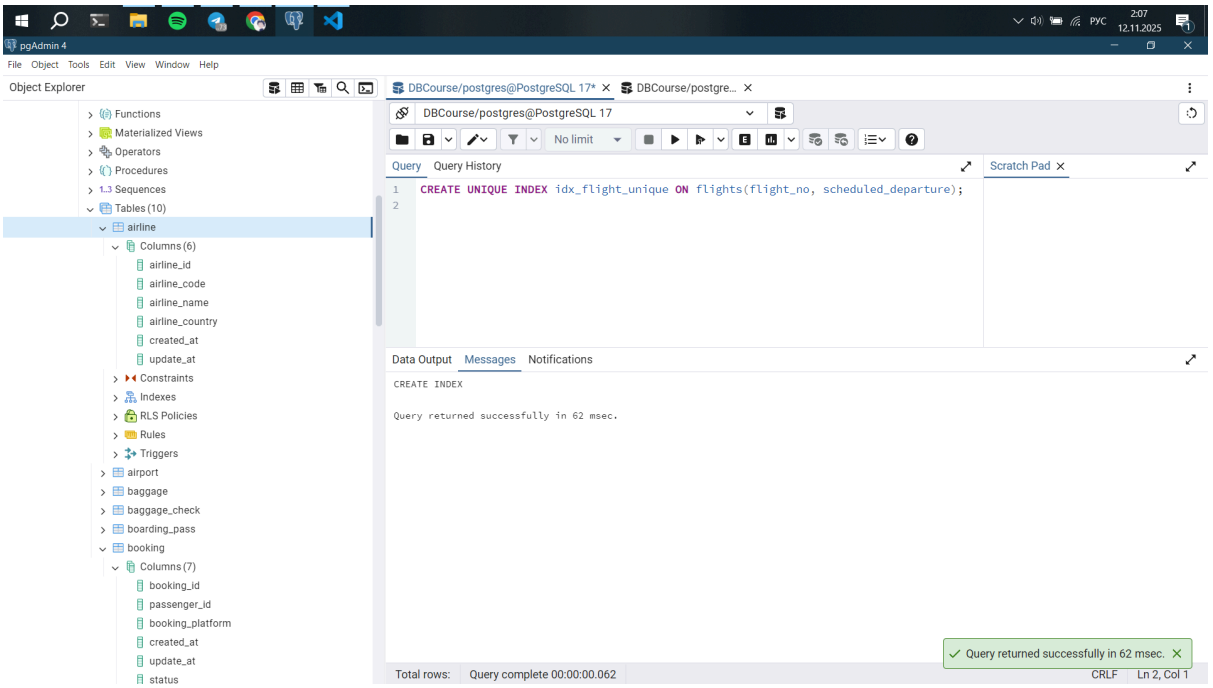
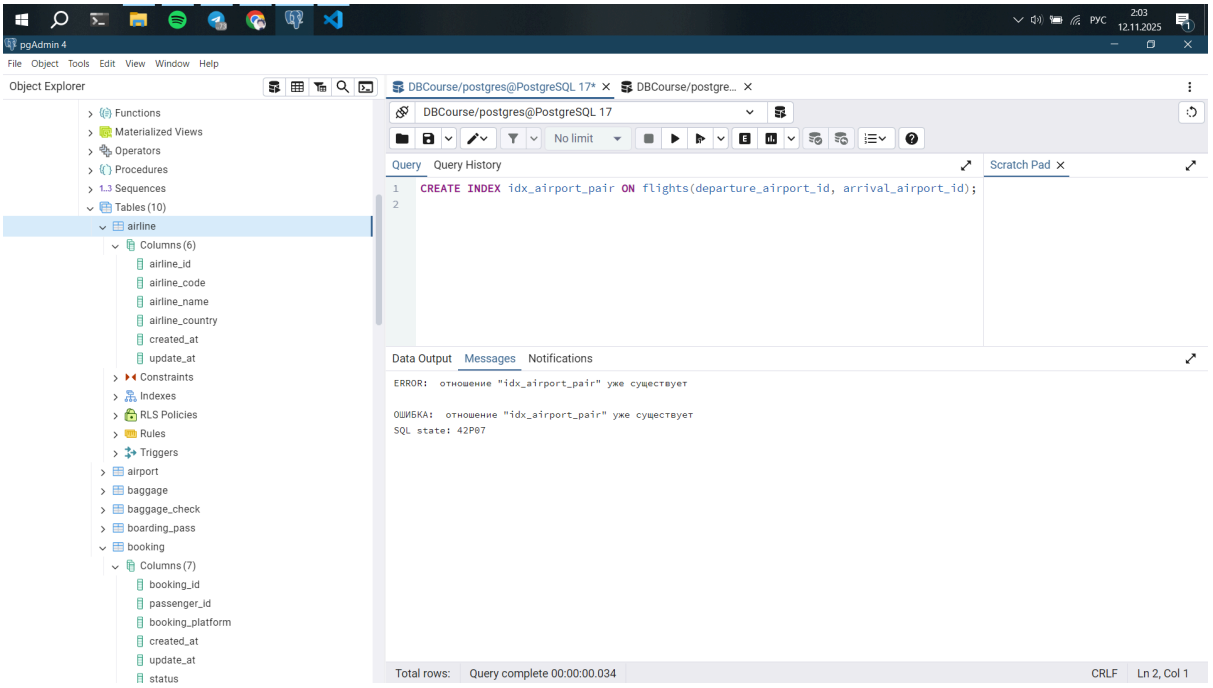
1


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
DBCourse/postgres@PostgreSQL 17*
DBCourse/postgres@PostgreSQL 17
No limit
Query Query History
Scratch Pad
1 CREATE INDEX idx_flights_actual_departure ON flights (actual_departure);
2
Data Output Messages Notifications
CREATE INDEX
Query returned successfully in 80 msec.
Total rows: Query complete 00:00:00.080
CRLF Ln 2, Col 1
Query returned successfully in 80 msec.
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (10)
airline
Columns (6)
airline_id
airline_code
airline_name
airline_country
created_at
update_at
Constraints
Indexes
RLS Policies
Rules
Triggers
airport
baggage
baggage_check
boarding_pass
booking
Columns (7)
booking_id
passenger_id
booking_platform
created_at
update_at
status

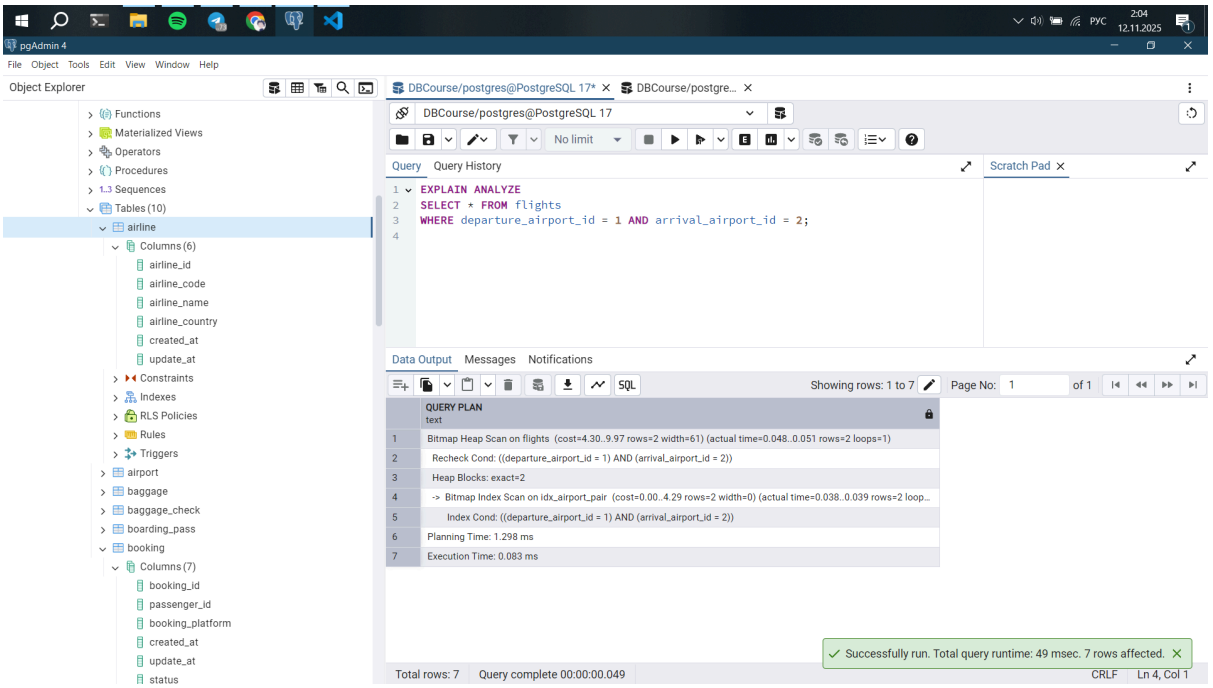
2


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
DBCourse/postgres@PostgreSQL 17*
DBCourse/postgres@PostgreSQL 17
No limit
Query Query History
Scratch Pad
1 CREATE UNIQUE INDEX idx_flight_unique ON flights(flight_no, scheduled_departure);
2
Data Output Messages Notifications
CREATE INDEX
Query returned successfully in 62 msec.
Total rows: Query complete 00:00:00.062
CRLF Ln 2, Col 1
Query returned successfully in 62 msec.
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (10)
airline
Columns (6)
airline_id
airline_code
airline_name
airline_country
created_at
update_at
Constraints
Indexes
RLS Policies
Rules
Triggers
airport
baggage
baggage_check
boarding_pass
booking
Columns (7)
booking_id
passenger_id
booking_platform
created_at
update_at
status

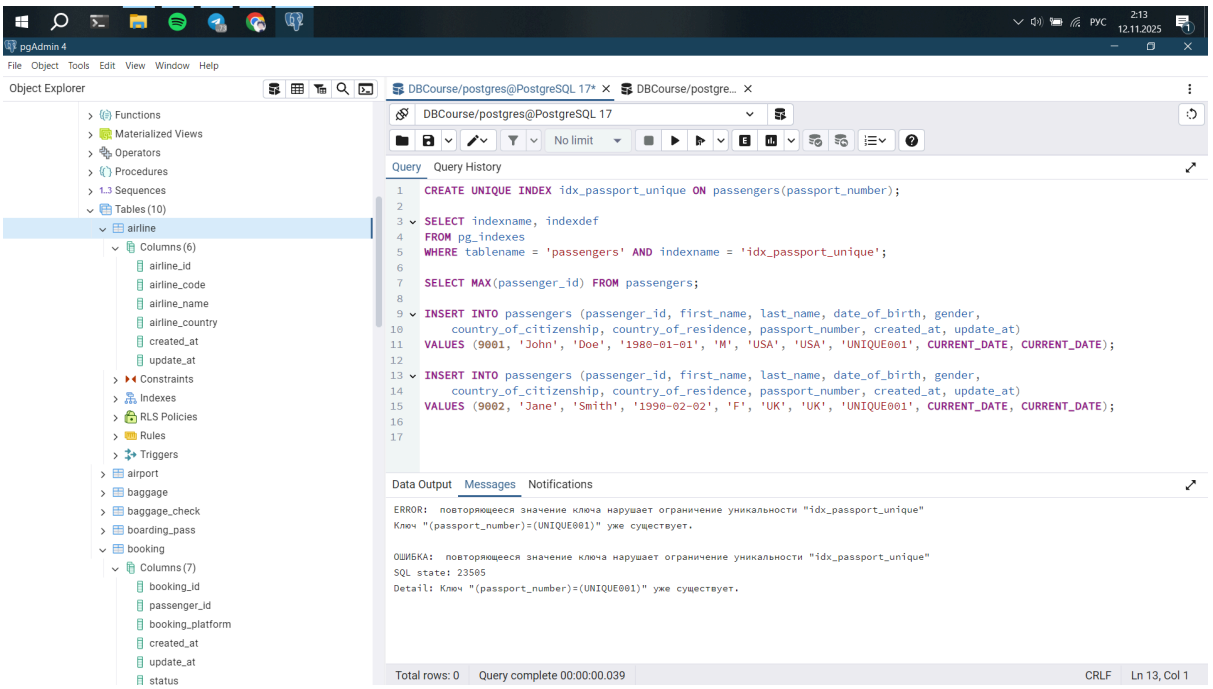
3


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
DBCourse/postgres@PostgreSQL 17*
DBCourse/postgre...
DBCourse/postgres@PostgreSQL 17
No limit
Query Query History
Scratch Pad
1 CREATE INDEX idx_airport_pair ON flights(departure_airport_id, arrival_airport_id);
2
Data Output Messages Notifications
ERROR: отношение "idx_airport_pair" уже существует
ОШИБКА: отношение "idx_airport_pair" уже существует
SQL state: 42P07
Total rows: Query complete 00:00:00.034 CRLF Ln 2, Col 1
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (10)
airline
Columns (6)
airline_id
airline_code
airline_name
airline_country
created_at
update_at
Constraints
Indexes
RLS Policies
Rules
Triggers
airport
baggage
baggage_check
boarding_pass
booking
Columns (7)
booking_id
passenger_id
booking_platform
created_at
update_at
status

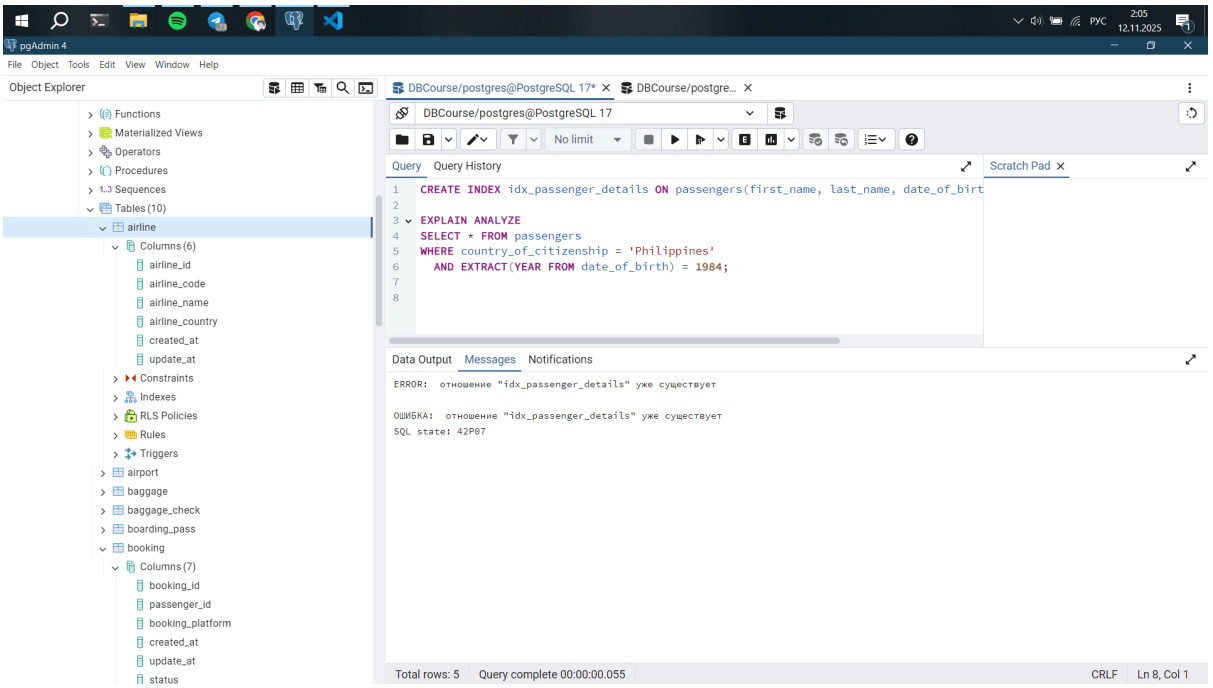
5


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
DBCourse/postgres@PostgreSQL 17*
DBCourse/postgre...
DBCourse/postgres@PostgreSQL 17
No limit
Query Query History
Scratch Pad
1 EXPLAIN ANALYZE
2 SELECT * FROM flights
3 WHERE departure_airport_id = 1 AND arrival_airport_id = 2;
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=4.30..9.97 rows=2 width=61) (actual time=0.048..0.051 rows=2 loops=1)
2 Recheck Cond: ((departure_airport_id = 1) AND (arrival_airport_id = 2))
3 Heap Blocks: exact=2
4 -> Bitmap Index Scan on idx_airport_pair (cost=0.00..4.29 rows=2 width=0) (actual time=0.038..0.039 rows=2 loop...
5 Index Cond: ((departure_airport_id = 1) AND (arrival_airport_id = 2))
6 Planning Time: 1.298 ms
7 Execution Time: 0.083 ms
Successfully run. Total query runtime: 49 msec. 7 rows affected.
Total rows: 7 Query complete 00:00:00.049 CRLF Ln 4, Col 1
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (10)
airline
Columns (6)
airline_id
airline_code
airline_name
airline_country
created_at
update_at
Constraints
Indexes
RLS Policies
Rules
Triggers
airport
baggage
baggage_check
boarding_pass
booking
Columns (7)
booking_id
passenger_id
booking_platform
created_at
update_at
status

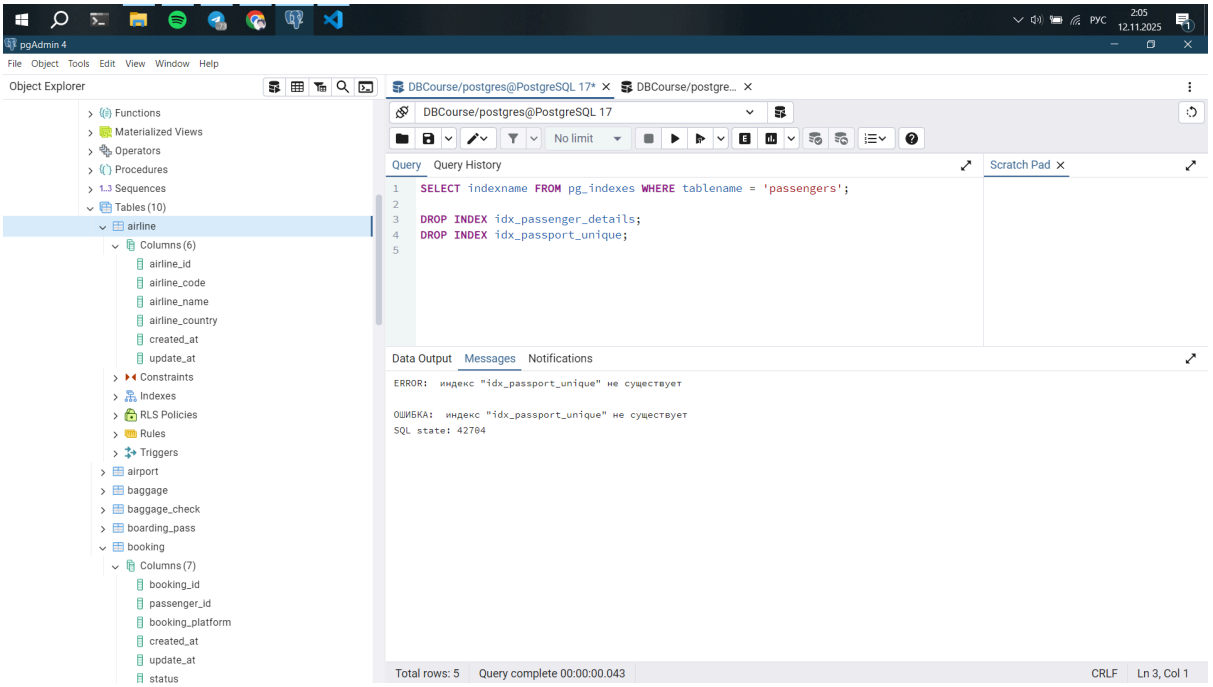
6


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
DBCourse/postgres@PostgreSQL 17*
DBCourse/postgre...
DBCourse/postgres@PostgreSQL 17
No limit
Query Query History
CREATE UNIQUE INDEX idx_passport_unique ON passengers(passport_number);
SELECT indexname, indexdef
FROM pg_indexes
WHERE tablename = 'passengers' AND indexname = 'idx_passport_unique';
SELECT MAX(passenger_id) FROM passengers;
INSERT INTO passengers (passenger_id, first_name, last_name, date_of_birth, gender,
country_of_citizenship, country_of_residence, passport_number, created_at, update_at)
VALUES (9001, 'John', 'Doe', '1980-01-01', 'M', 'USA', 'USA', 'UNIQUE001', CURRENT_DATE, CURRENT_DATE);
INSERT INTO passengers (passenger_id, first_name, last_name, date_of_birth, gender,
country_of_citizenship, country_of_residence, passport_number, created_at, update_at)
VALUES (9002, 'Jane', 'Smith', '1990-02-02', 'F', 'UK', 'UK', 'UNIQUE001', CURRENT_DATE, CURRENT_DATE);
Data Output Messages Notifications
ERROR: повторяющееся значение ключа нарушает ограничение уникальности "idx_passport_unique"
Ключ "(passport_number)=(UNIQUE001)" уже существует.
ОШИБКА: повторяющееся значение ключа нарушает ограничение уникальности "idx_passport_unique"
SQL state: 23505
Detail: Ключ "(passport_number)=(UNIQUE001)" уже существует.
Total rows: 0
Query complete 00:00:00.039
CRLF
Ln 13, Col 1

7


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
DBCourse/postgres@PostgreSQL 17*
DBCourse/postgre...
DBCourse/postgres@PostgreSQL 17
No limit
Query Query History
Scratch Pad
CREATE INDEX idx_passenger_details ON passengers(first_name, last_name, date_of_birt
EXPLAIN ANALYZE
SELECT * FROM passengers
WHERE country_of_citizenship = 'Philippines'
AND EXTRACT(YEAR FROM date_of_birth) = 1984;
Data Output Messages Notifications
ERROR: отношение "idx_passenger_details" уже существует
ОШИБКА: отношение "idx_passenger_details" уже существует
SQL state: 42P07
Total rows: 5
Query complete 00:00:00.055
CRLF
Ln 8, Col 1

8


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (10)
airline
Columns (6)
airline_id
airline_code
airline_name
airline_country
created_at
update_at
Constraints
Indexes
RLS Policies
Rules
Triggers
airport
baggage
baggage_check
boarding_pass
booking
Columns (7)
booking_id
passenger_id
booking_platform
created_at
update_at
status
DBCourse/postgres@PostgreSQL 17*
DBCourse/postgre...
DBCourse/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
1 SELECT indexname FROM pg_indexes WHERE tablename = 'passengers';
2
3 DROP INDEX idx_passenger_details;
4 DROP INDEX idx_passport_unique;
5
Data Output
Messages
Notifications
ERROR: индекс "idx_passport_unique" не существует
ОШИБКА: индекс "idx_passport_unique" не существует
SQL state: 42704
Total rows: 5
Query complete 00:00:00.043
CRLF
Ln 3, Col 1