# Kazakh-British Technical University

DATABASES
Laboratory work №7

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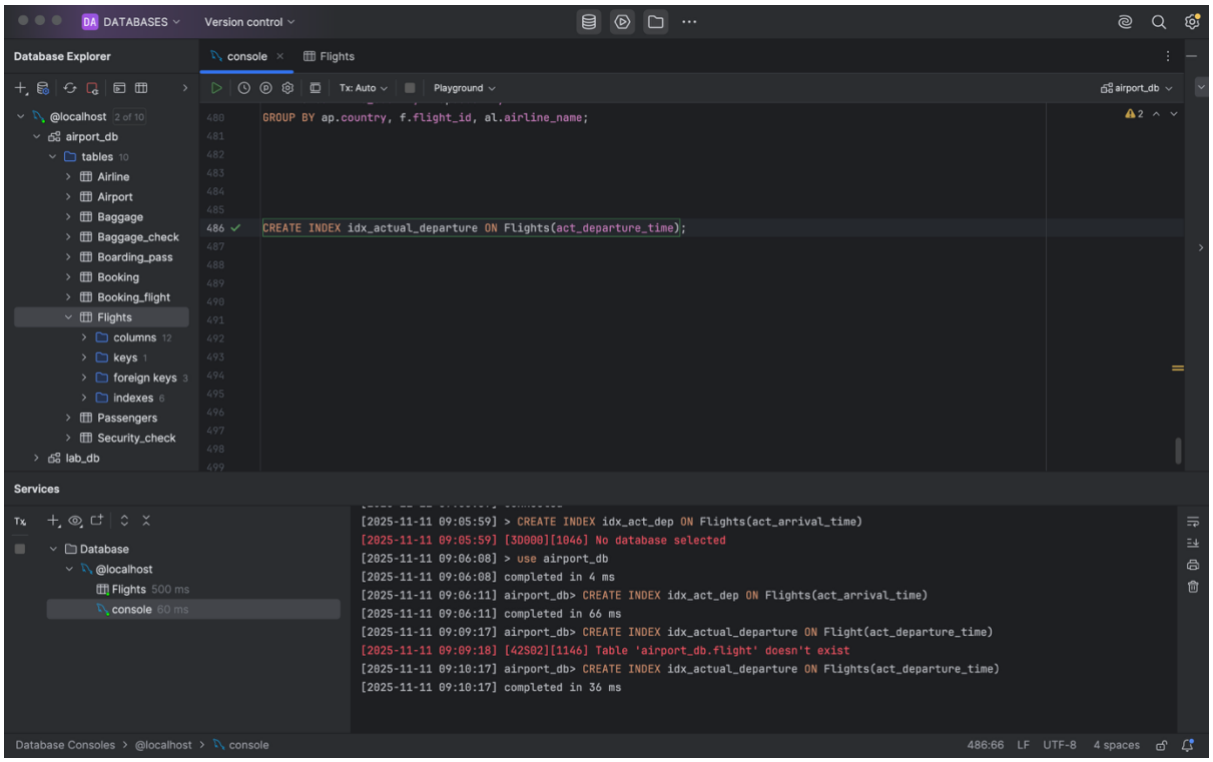
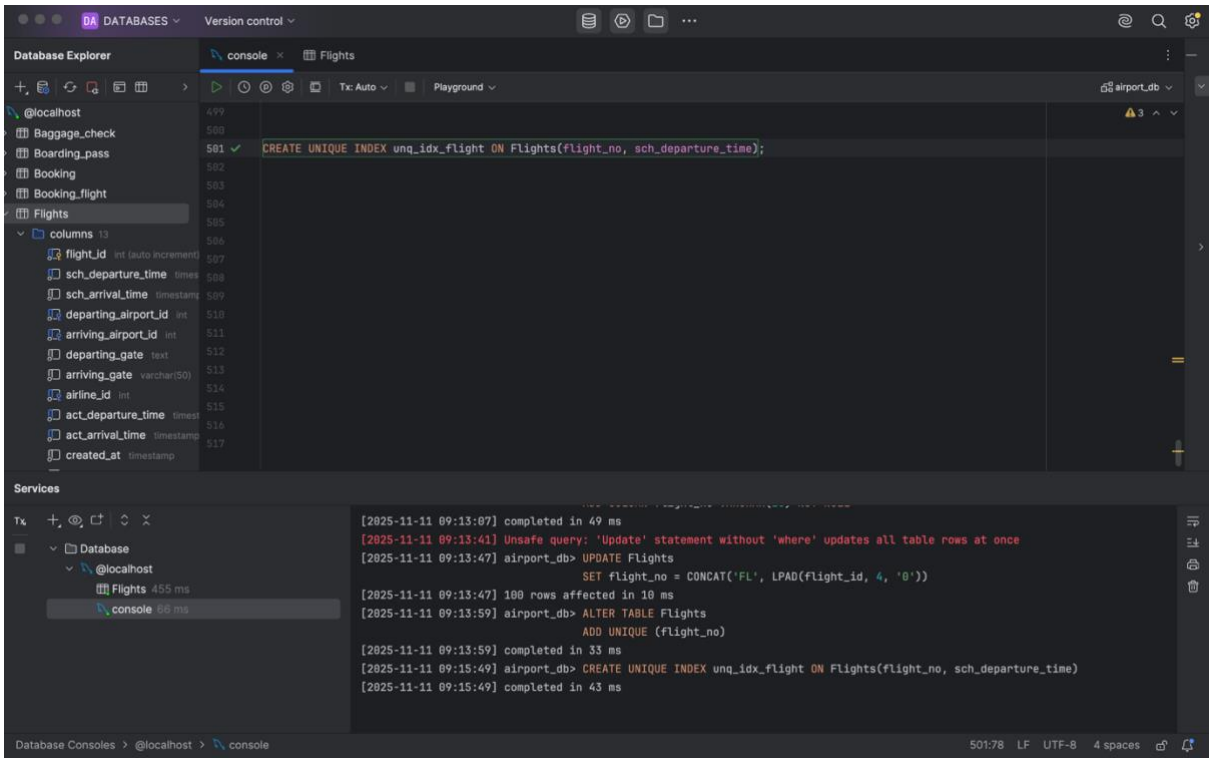
**23B031861**

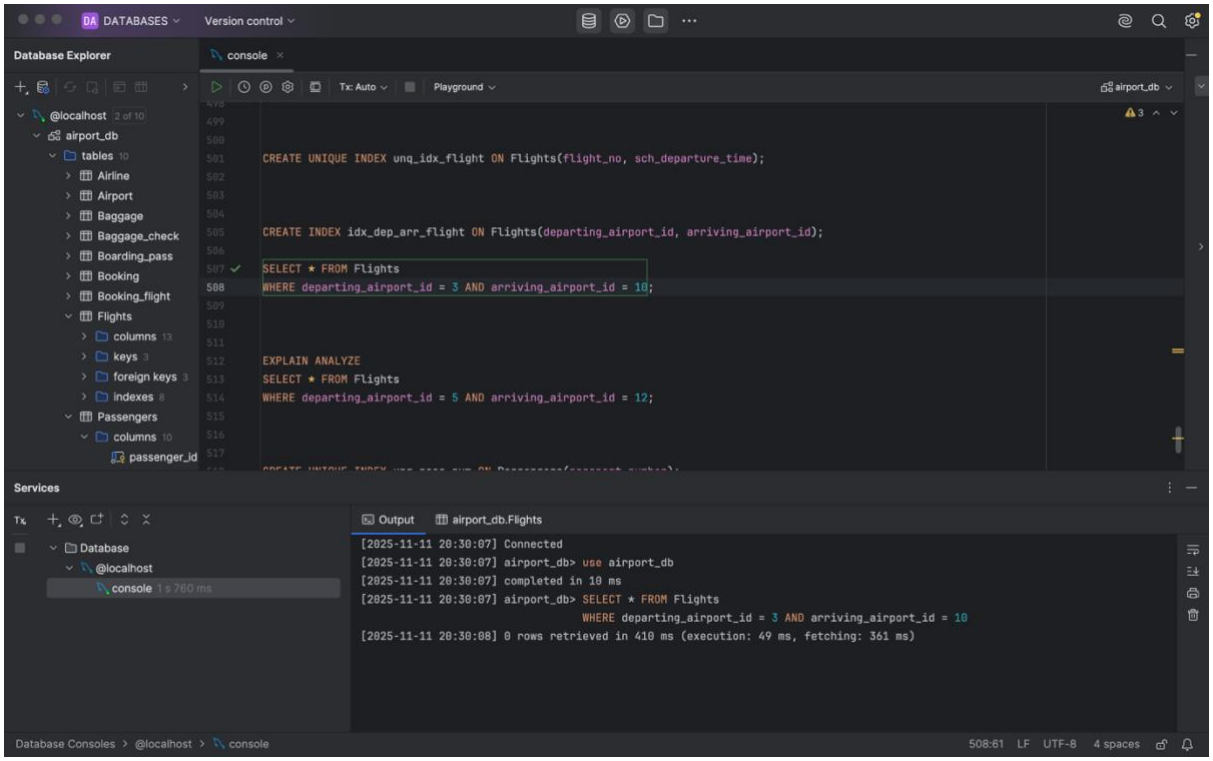
1. **Create an index on the actual_departure column in the flights table.**



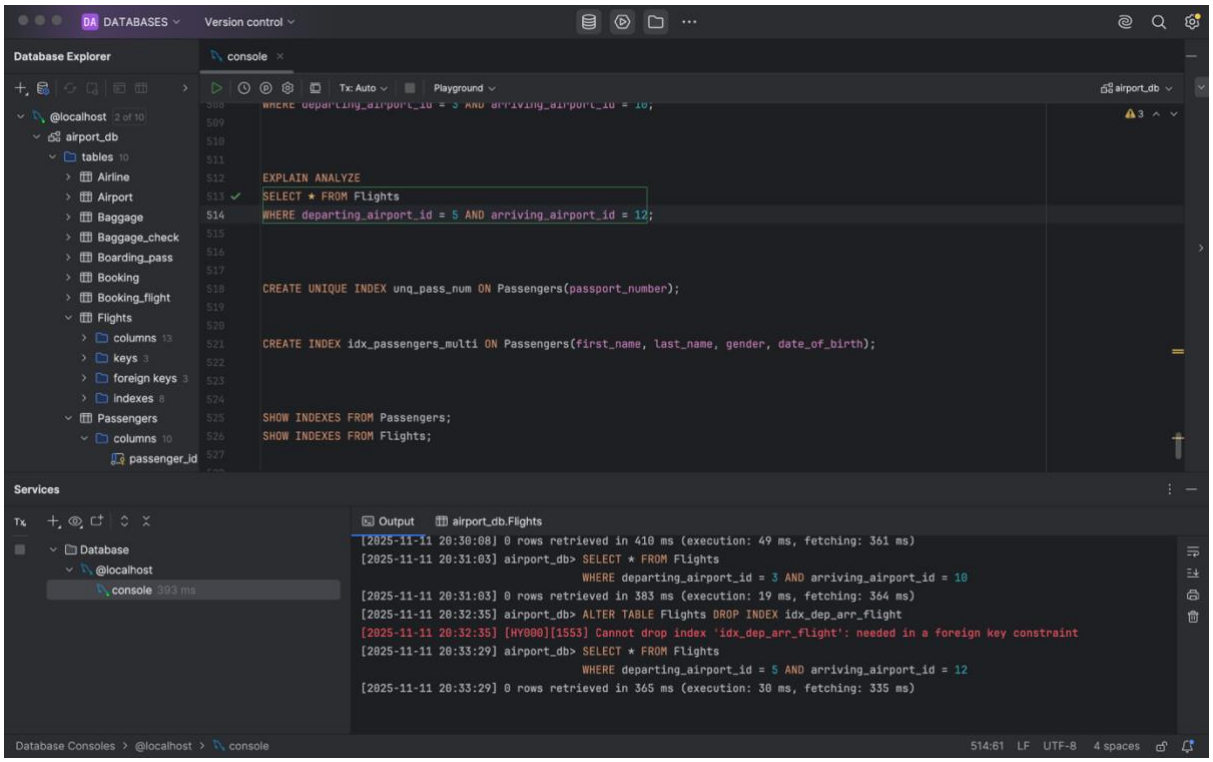

2. **Create a unique index to ensure flight_no and scheduled_departure combinations are unique.**



3. **Create a composite index on the departure_airport_id and arrival_airport_id columns.**

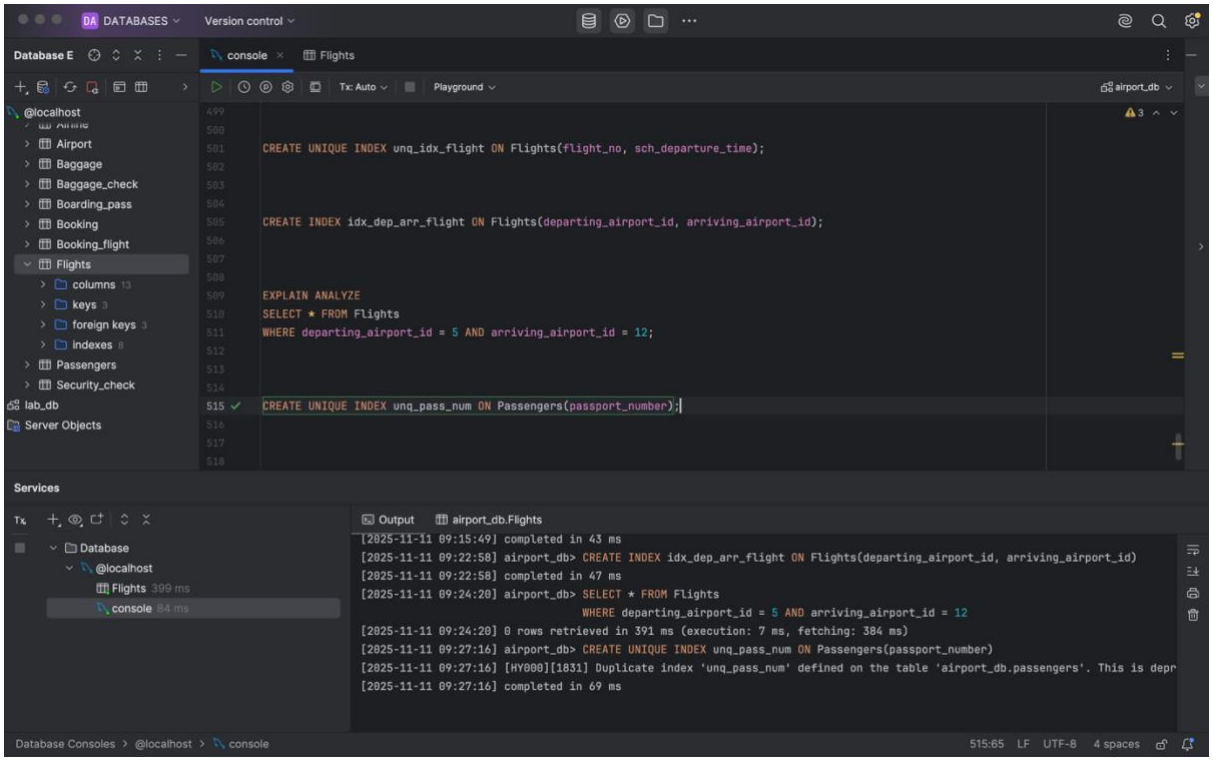


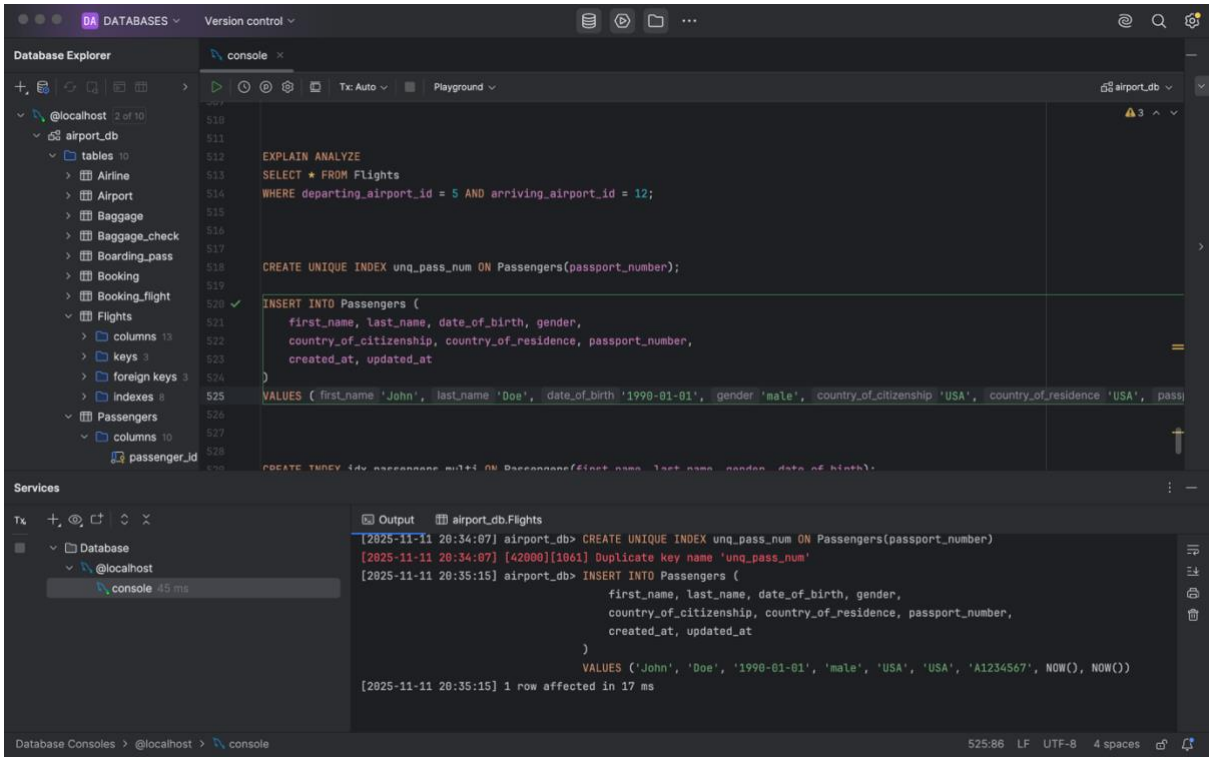

5. **Use EXPLAIN ANALYZE to check index usage in a query filtering by departure_airport and arrival_airport.**

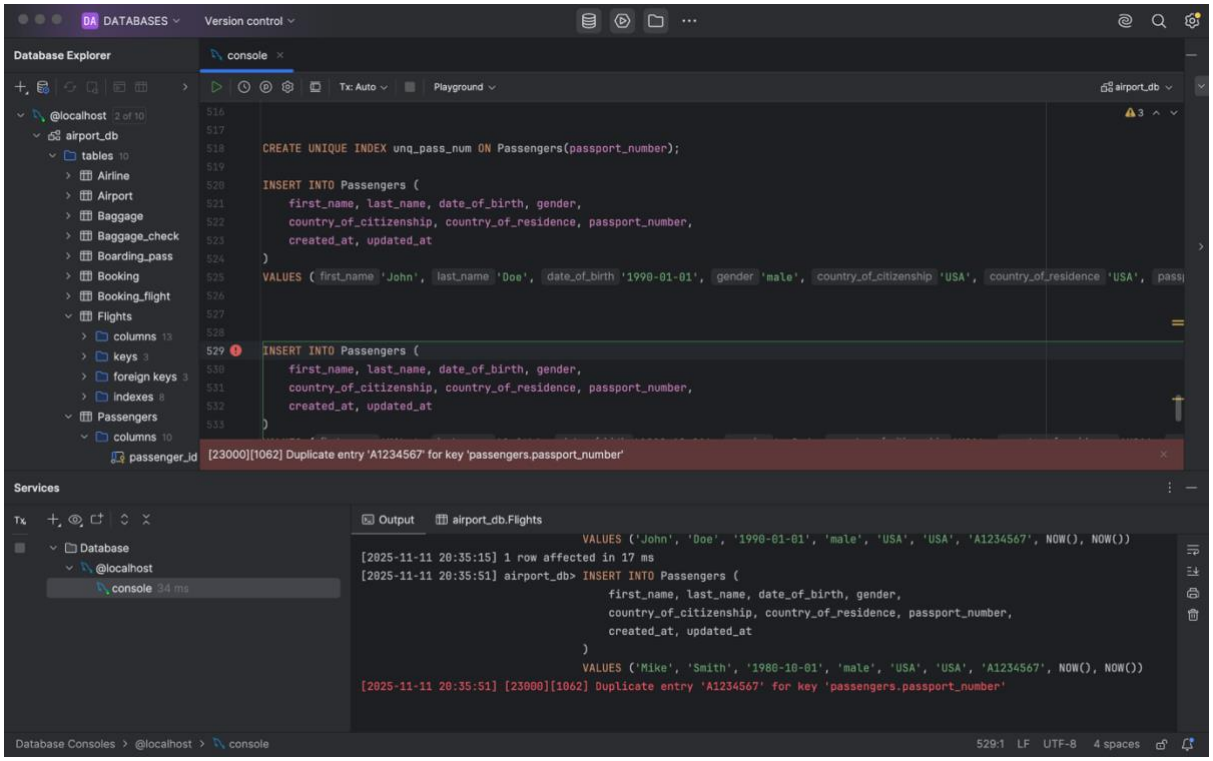


6. **Create a unique index for the passport_number of the Passengers table. Check if the index was created or not. Insert into the table two new passengers.**

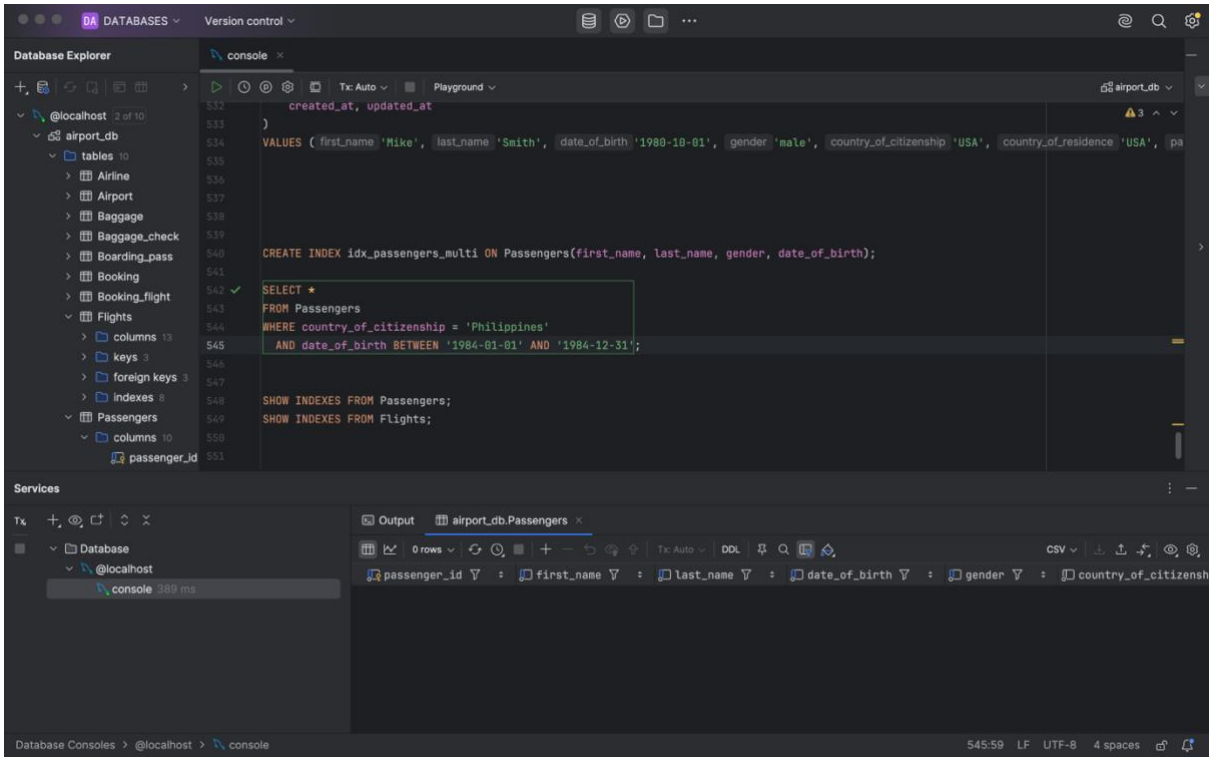
**Explain in your own words what is going on in the output?**

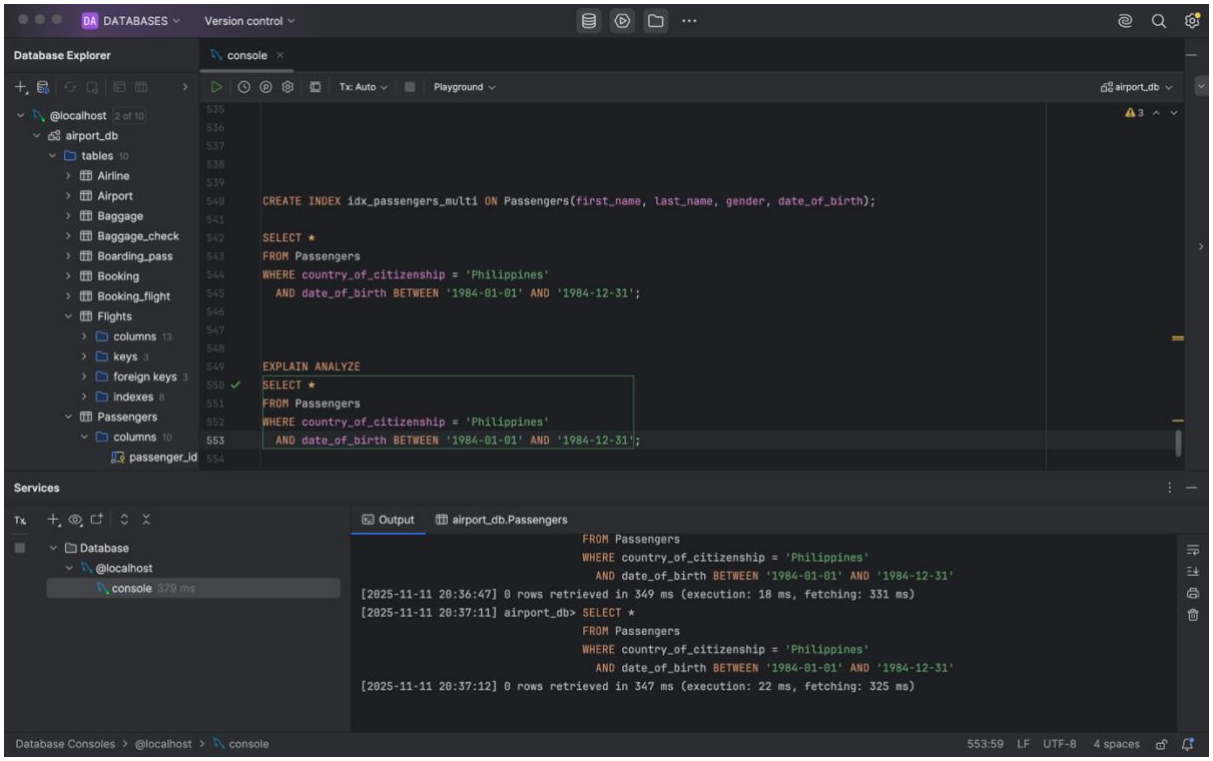





7. **Create an index for the Passengers table. Use for that first name, last name, date of birth and country of citizenship. Then, write a SQL query to find a passenger who was born in Philippines and was born in 1984 and check if the query uses indexes or not. Give the explanation of the results.**






8. **Write a SQL query to list indexes for table Passengers. After delete the created indexes.**