Kazakh British Technical University Databases

Laboratory work №4

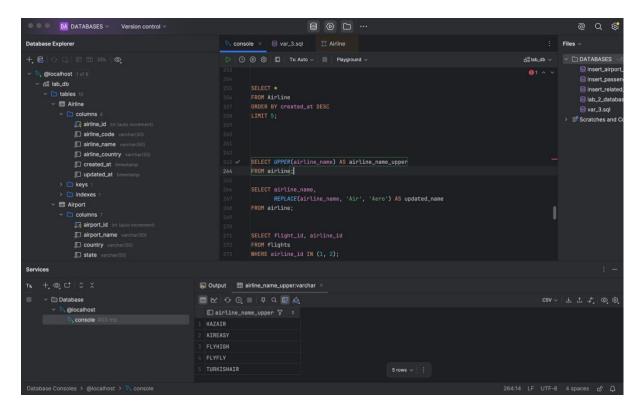
Kislitsin Alexandr 23B031861

Introduction

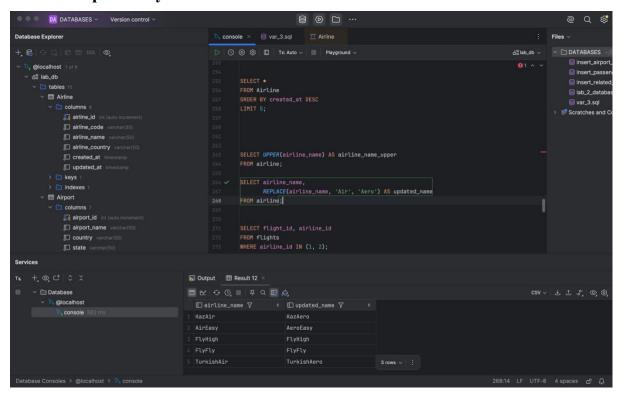
In this lab, we continued to study SQL queries using the airport database as an example.

The main goal is to learn how to use string functions, conditional expressions, and comparison operators, as well as apply data formatting, filtering, and grouping in queries.

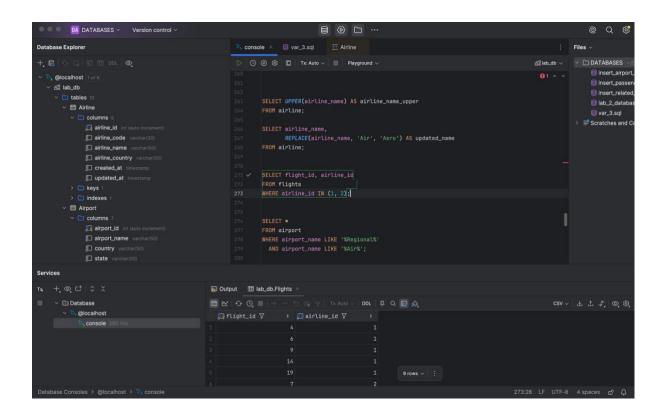
Task 1. Retrieve all airline names in uppercase



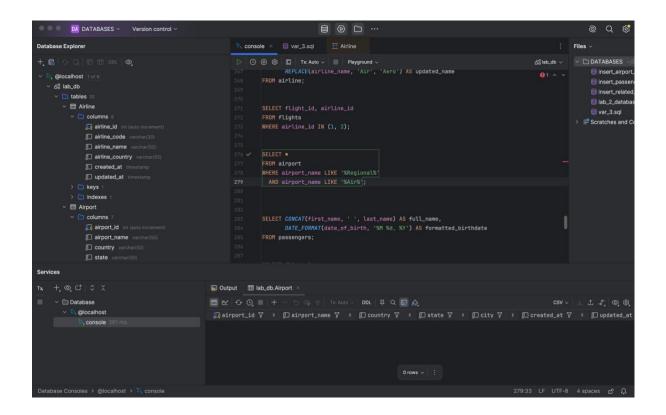
Task 2. Replace any occurrence of the word "Air" with "Aero"



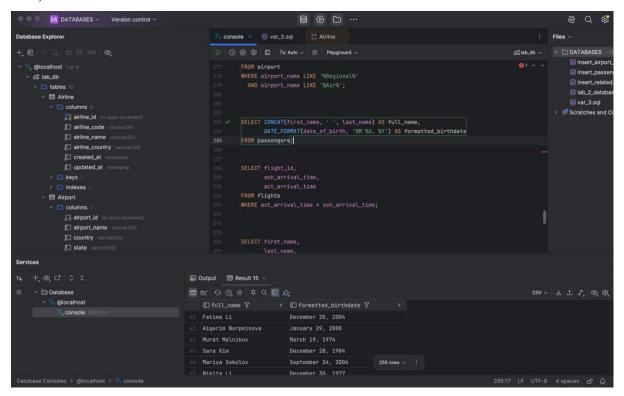
Task 3. Find all flight numbers that coordinate with both airline 1 and airline



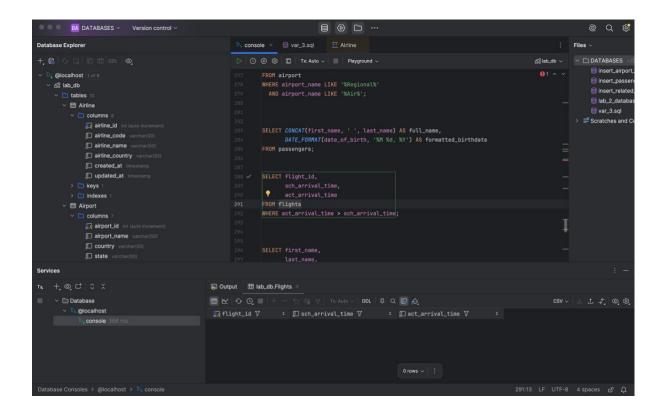
Task 4. Retrieve airports that contain "Regional" and "Air" in their names



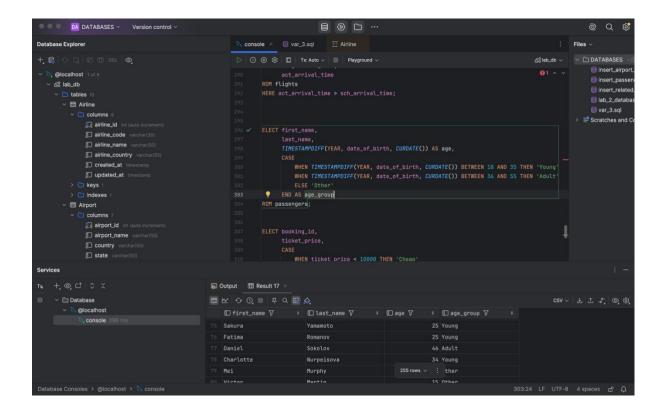
Task 5. Retrieve passenger names and format their birth dates as 'Month DD, YYYY'



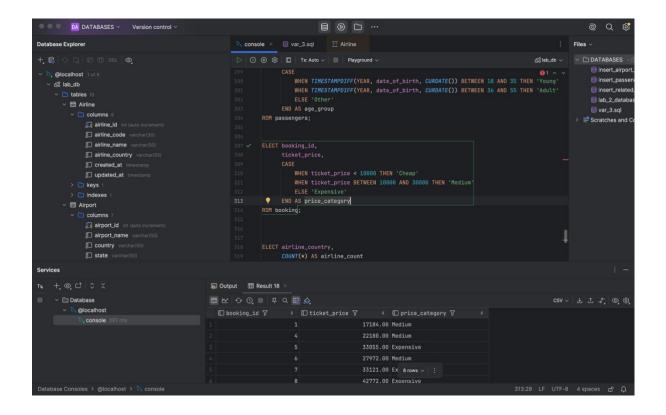
Task 6. Find flight numbers that have been delayed



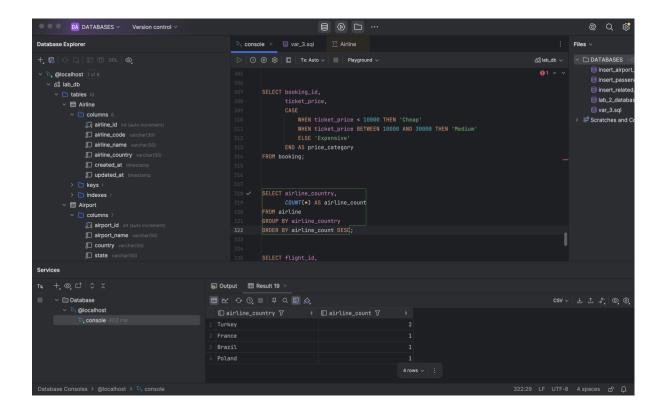
Task 7. Divide passengers into age groups (Young / Adult)



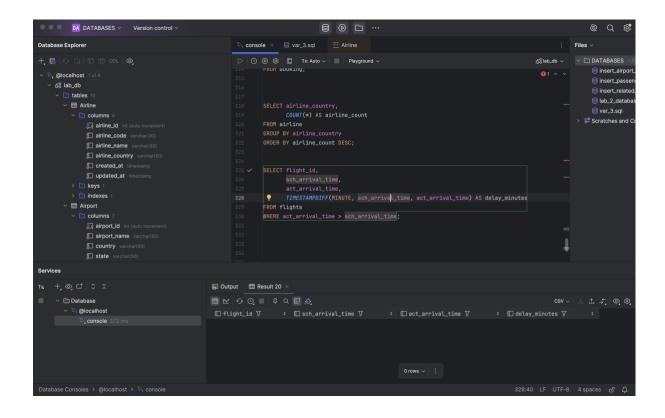
Task 8. Categorize ticket prices as Cheap, Medium or Expensive



Task 9. Find number of airline names in each country



Task 10. Find flights that arrived late



Conclusion

During the laboratory work, queries were performed using the string, date, and condition functions.

The skills of formatting texts and dates, using CASE, GROUP BY, LIKE, UPPER, REPLACE, and DATE_FORMAT are fixed.

The result was the ability to create more flexible and informative SQL queries for airport data analysis.