



This lab work includes the construction of an ERD diagram of the International Airport system. The purpose of the work is to design the database structure, define the main entities, their attributes and relationships to ensure the integrity and ease of data management.

Entities and Attributes

- 1. Airports stores data about airports (id, name, country, state, city, creation and update dates).
- 2. Airlines contains information about airlines (id, code, name, country, creation and update dates).
- 3. Flights stores information about flights (id, airline, departure airport, arrival airport, gates, scheduled and actual departure and arrival times, creation and update dates).
- 4. Passengers contains passenger data (id, first name, last name, date of birth, citizenship, passport, creation and update dates).
- 5. Bookings stores booking details (id, flight, passenger, status, booking platform, ticket price, creation and update dates).
- 6. Boarding_passes contains boarding pass details (id, booking, seat, boarding time, creation and update dates).
- 7. Baggage stores baggage data (id, booking, weight, creation and update dates).
- 8. Security_checks contains security check results (id, passenger, check result, creation and update dates).

Conclusion:

The developed ER diagram for the International Airport database reflects the key entities of the system and their relationships. This model ensures data integrity and enables efficient management of information on flights, passengers, reservations, baggage, and security screening.