**LAB 1. ERD DIAGRAMM**

Entities and attributes

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| Entity | Attributes |
| Airport | id (PK), name, country, state, city, date\_created, date\_updated |
| Airline\_company | id (PK), name, country, date\_created, date\_updated |
| Flight | id (PK), airline\_id (FK), departing\_airport\_id (FK), arriving\_airport\_id (FK), departing\_gate, arriving\_gate, scheduled\_departure\_time, scheduled\_arrival\_time , actual\_departure\_time , date\_created, date\_updated |
| Booking | id (PK), status, booking\_platform, price, date\_created, date\_updated |
| Booking\_update | id (PK), booking\_id (FK), description |
| Ticket | id (PK), booking\_id (FK), flight\_id (FK), passenger\_id (FK), seat\_number, boarding\_time, date\_created, date\_updated |
| Passenger | id (PK), first\_name, last\_name, gender, birth\_date, country\_of\_citizenship, country\_of\_residence, passport\_number, date\_created, date\_updated |
| Passenger\_security\_check | id (PK), passenger\_id (FK, unique), status, date\_created, date\_updated |
| Bagggage | id (PK), ticket\_id (FK), weight, date\_created, date\_updated |
| Baggage\_security\_check | id (PK), baggage\_id (FK, unique), check\_status, date\_created, date\_updated |

**Relationships**

* Airport(1) > Flight(many)
* Airline(1) > Flight(many)
* Flight(1) > Ticket(many)
* Booking(1) > Ticket (many)
* Passenger(1) > Ticket (many)
* Ticket(1) > Baggage(many)
* Passenger(1) > Passenger\_security\_check(1)
* Baggage(1) > Baggage\_security\_check(1)

