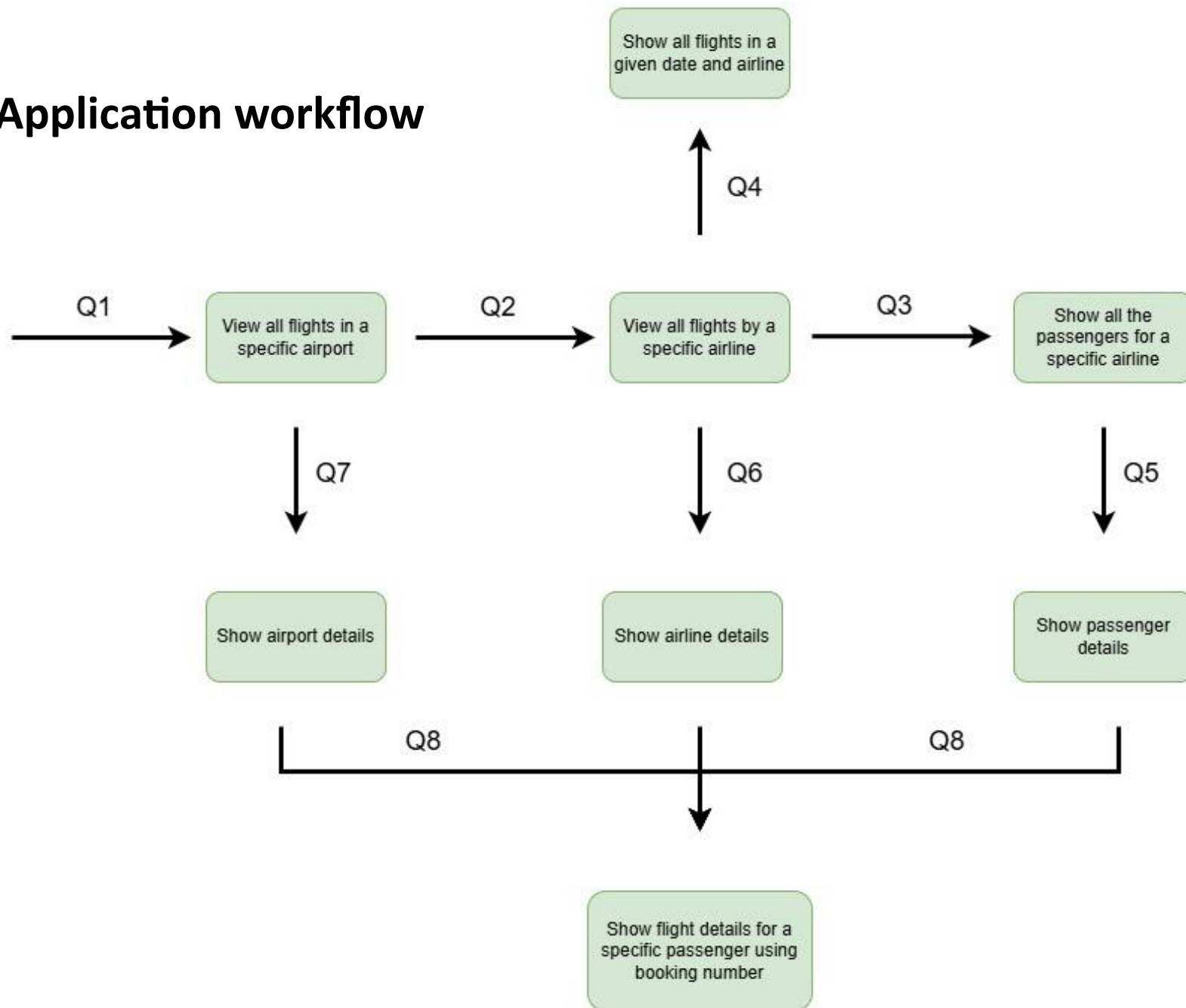
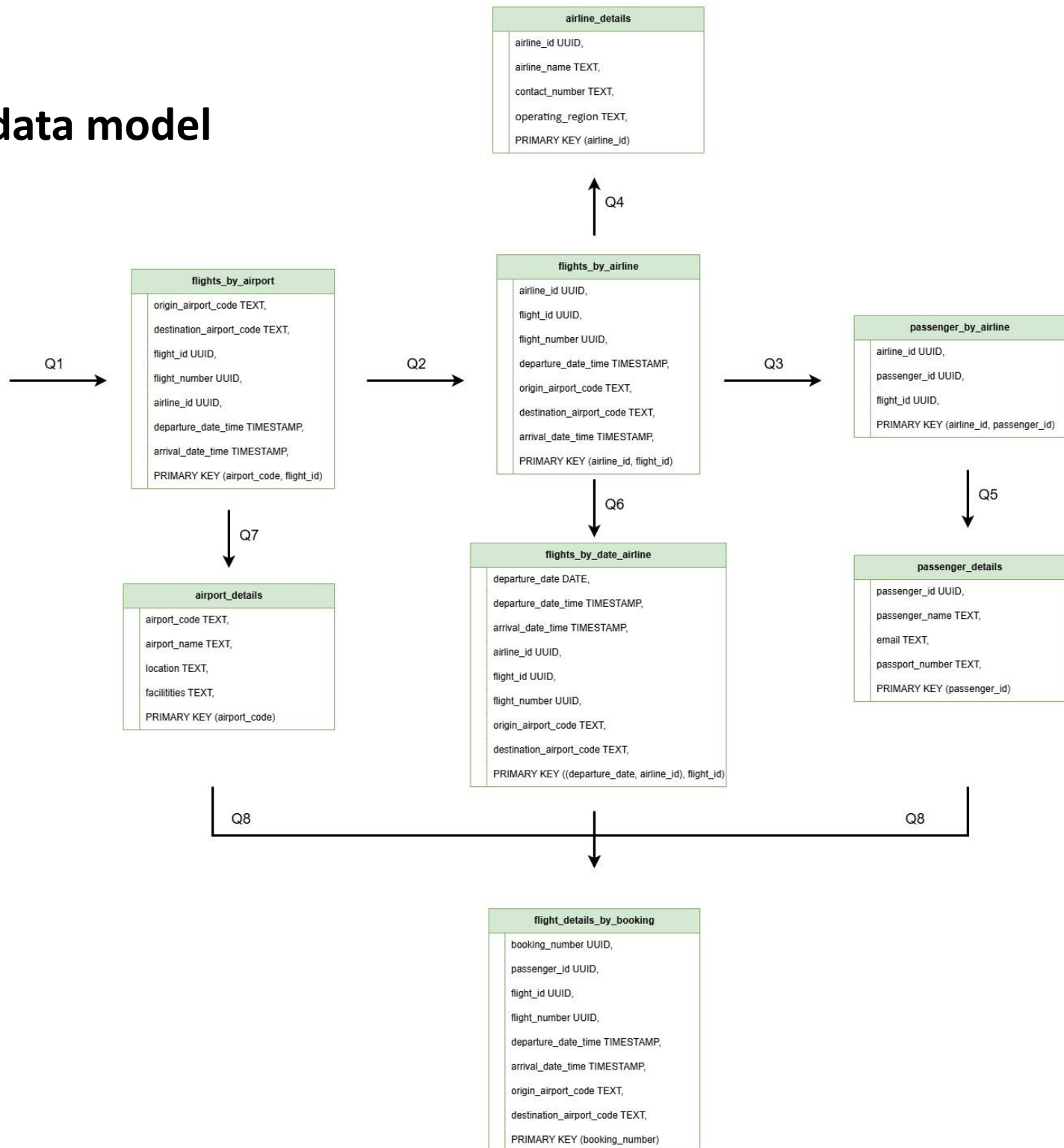


Conceptual data model

Application workflow



Logical data model



```
CREATE TABLE flights_by_airport (  
  origin_airport_code TEXT,  
  destination_airport_code TEXT,  
  flight_id UUID,  
  airline_id UUID,  
  departure_date_time TIMESTAMP,  
  arrival_date_time TIMESTAMP,  
  flight_number UUID,  
  PRIMARY KEY (origin_airport_code, flight_id)  
);
```

```
CREATE TABLE flights_by_airline (  
  airline_id UUID,  
  flight_id UUID,  
  departure_date_time TIMESTAMP,  
  origin_airport_code TEXT,  
  destination_airport_code TEXT,  
  arrival_date_time TIMESTAMP,  
  flight_number UUID,  
  PRIMARY KEY (airline_id, flight_id)  
);
```

```
CREATE TABLE passengers_by_airline (  
  airline_id UUID,  
  passenger_id UUID,  
  flight_id UUID,  
  PRIMARY KEY (airline_id, passenger_id)  
);
```

```
CREATE TABLE flights_by_date_airline (  
  departure_date DATE,  
  departure_date_time TIMESTAMP,  
  arrival_date_time TIMESTAMP,  
  airline_id UUID,  
  flight_id UUID,  
  flight_number UUID,  
  origin_airport_code TEXT,  
  destination_airport_code TEXT,  
  PRIMARY KEY ((departure_date, airline_id), flight_id)  
);
```

```
CREATE TABLE passenger_details (  
  passenger_id UUID,  
  passenger_name TEXT,  
  email TEXT,  
  passport_number TEXT,  
  PRIMARY KEY (passenger_id)  
);
```

```
CREATE TABLE airline_details (  
  airline_id UUID,  
  airline_name TEXT,  
  contact_number TEXT,  
  operating_region TEXT,  
  PRIMARY KEY (airline_id)  
);
```

```
CREATE TABLE airport_details (  
  airport_code TEXT,  
  airport_name TEXT,
```

```
location TEXT,  
facilities TEXT,  
PRIMARY KEY (airport_code)  
);
```

```
CREATE TABLE flight_details_by_booking (  
    booking_number UUID,  
    passenger_id UUID,  
    flight_id UUID,  
    flight_number UUID,  
    departure_date_time TIMESTAMP,  
    arrival_date_time TIMESTAMP,  
    origin_airport_code TEXT,  
    destination_airport_code TEXT,  
    PRIMARY KEY (booking_number)  
);
```
