

Airline Management

Data Analysis

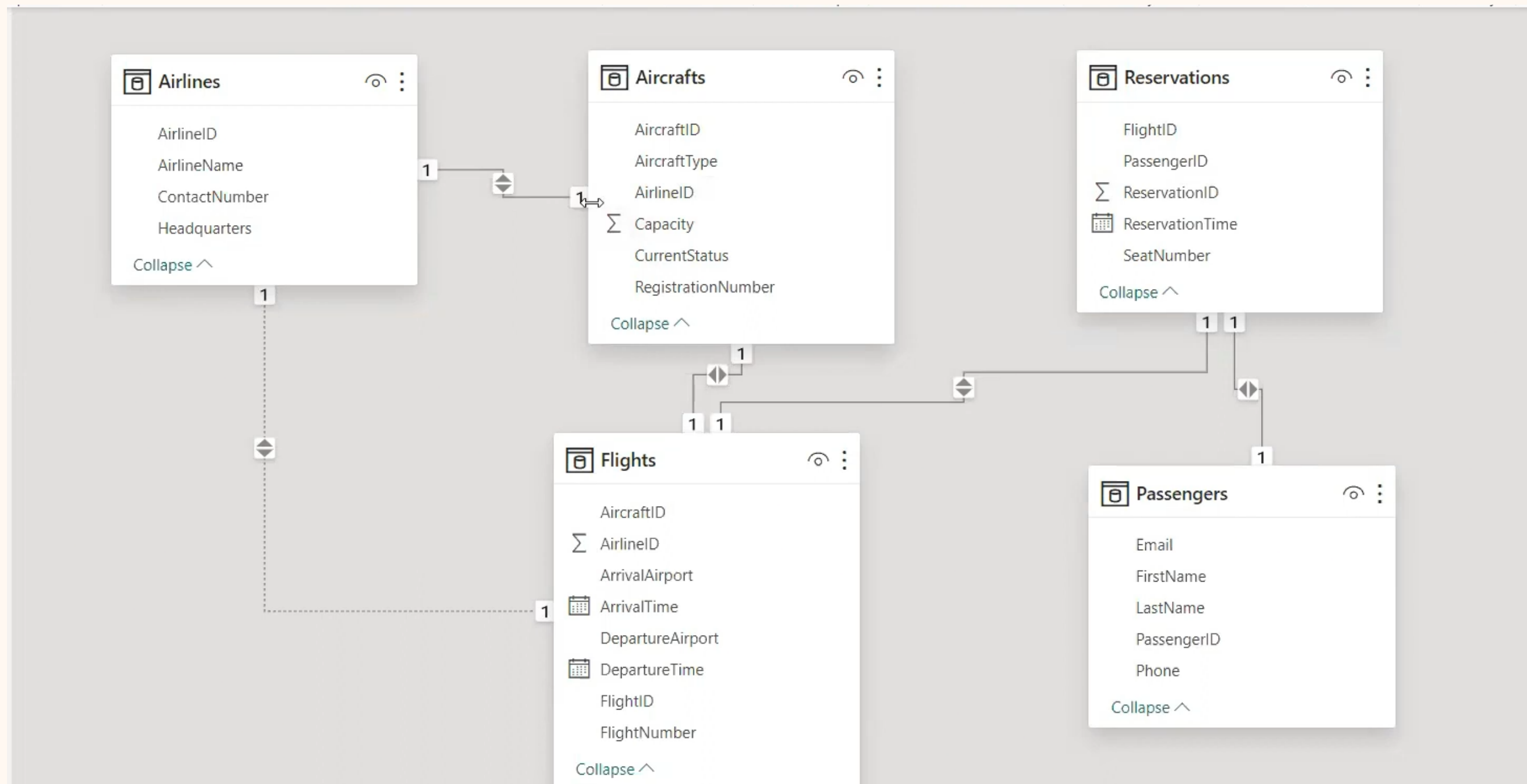
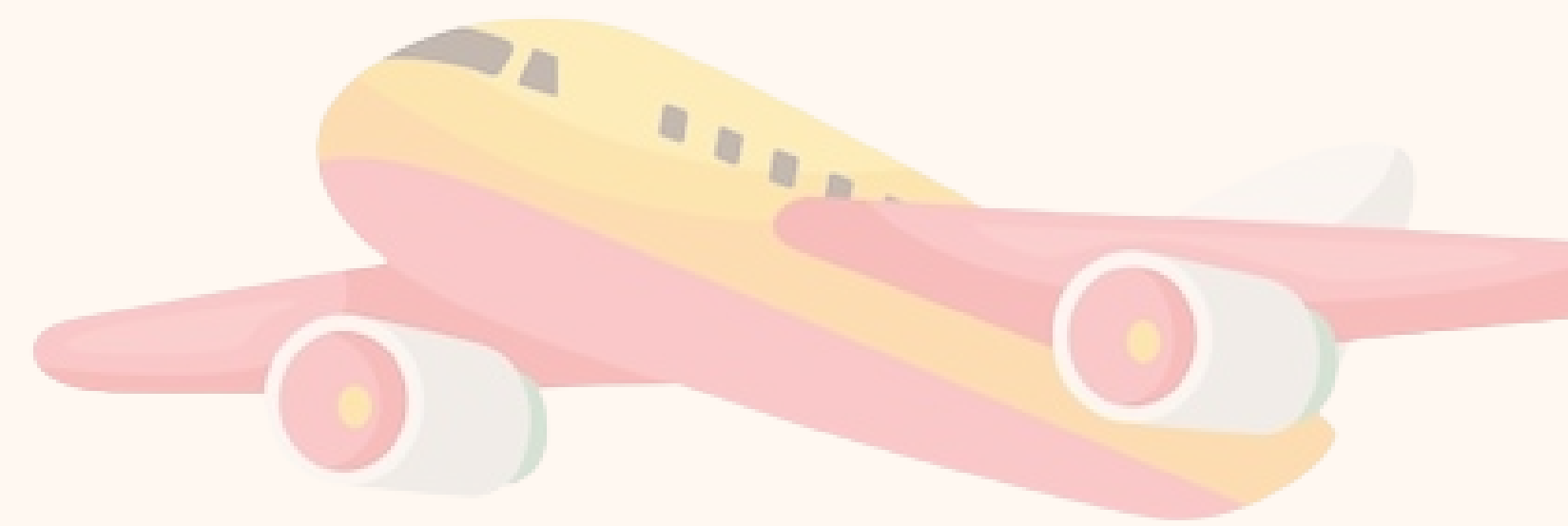


SQL Case Study

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Architecture



Here are the topics analyzed in the case study

- Retrieve information about all Airlines.
- Retrieve information about all Aircrafts.
- Retrieve a list of passengers for a specific flight.
- Retrieve a list of flights for a specific Airline.
- Retrieve the total number of reservations for a specific flight.
- Retrieve a list of passengers with their flight details for a specific airline



Retrieve information about all Airlines.



```
select * from Airlines;
```

AirlineID	AirlineName	Headquarters	ContactNumber
1	Airline A	City A	123-456-7890
2	Airline B	City B	987-654-3210

Retrive information about all Aircrafts.



```
select * from Aircrafts;
```



	AircraftID	AircraftType	RegistrationNumber	Capacity	CurrentStatus	AirlineID
1		Boeing 737	ABC123	150	Active	1
2		Airbus A320	XYZ789	180	Active	2

Retrieve a list of passengers for a specific flight.

```
select Passengers.*  
from Passengers  
join Reservations on Passengers.PassengerID = Reservations.PassengerID  
where Reservations.FlightID = 1;
```



PassengerID	FirstName	LastName	Email	Phone
1	John	Doe	john.doe@email.com	555-1234

Retrieve a list of flights for a specific Airline.

```
SELECT *  
from Flights  
where airlineid = 1;
```



FlightID	FlightNumber	DepartureAirport	ArrivalAirport	DepartureTime	ArrivalTime	AirlineID	AircraftID
1	AA101	JFK	LAX	2023-01-01 08:00:00	2023-01-01 12:00:00	1	1

Retrieve the total number of reservations for a specific flight.

```
SELECT COUNT(*) as Reservationscount  
from Reservations  
WHERE flightid = 1;
```



⋮	Reservationscount
	1

Retrieve a list of passengers with their flight details for a specific airline

```
SELECT Passengers.FirstName, Passengers.LastName, Flights.FlightNumber,  
Flights.DepartureAirport, Flights.ArrivalAirport  
  
from Passengers  
  
join Reservations on Passengers.PassengerID = Reservations.PassengerID  
  
join Flights on Reservations.FlightID = Flights.FlightID  
  
WHERE Flights.AirlineID = 1;
```



FirstName	LastName	FlightNumber	DepartureAirport	ArrivalAirport
John	Doe	AA101	JFK	LAX



Thank You

