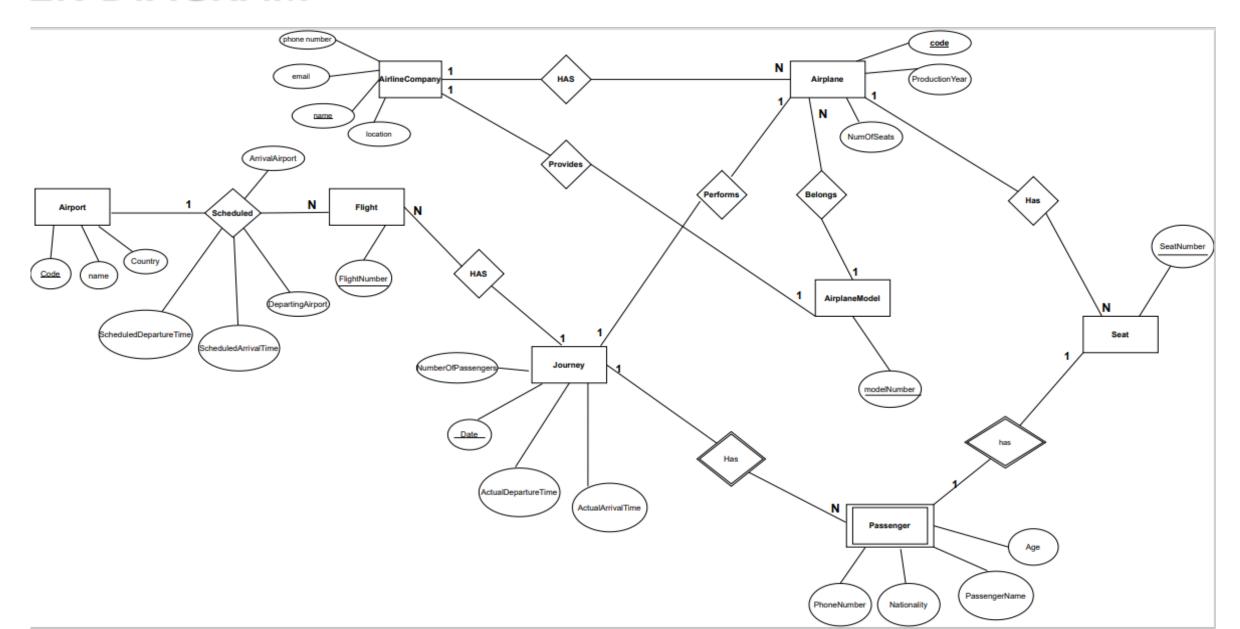
# Airline company

MalakAL-kazem

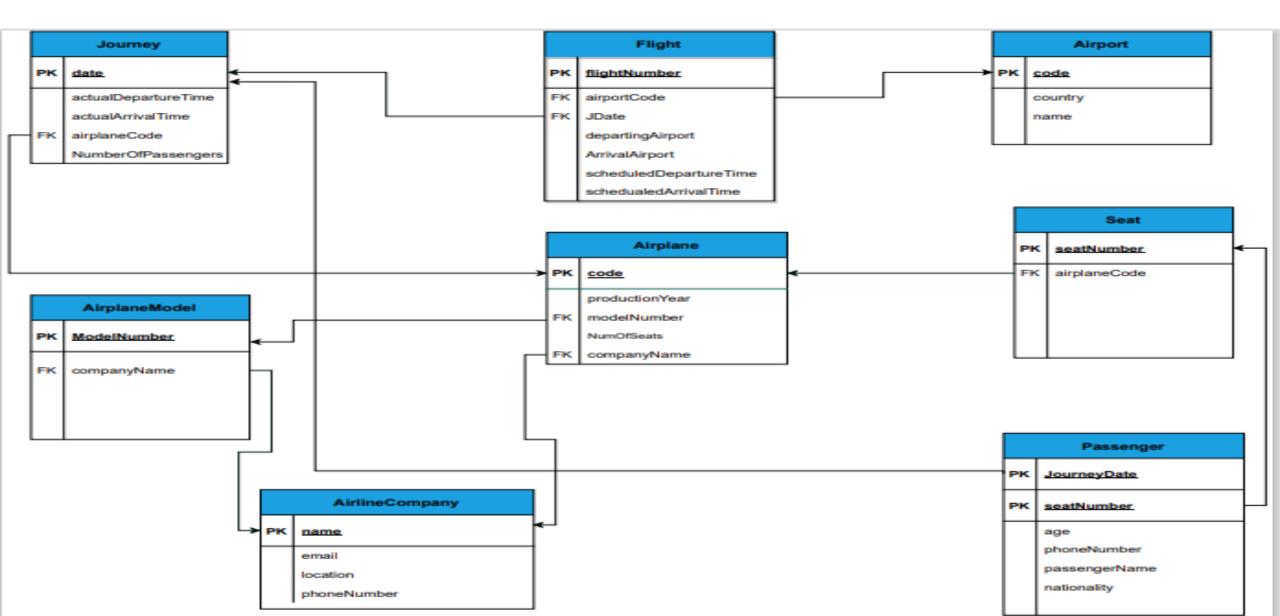
#### Introduction

• We need to design a database structure for "Airline Company" that meets all the given requirements. It must include the Entity Relationship Diagram (ERD), Relational Schema and the SQI commands.

### **ER DIAGRAM**



#### **Relational Schema**



## **SQLQUERIES:**

List the total number of journeys done during October 2015.

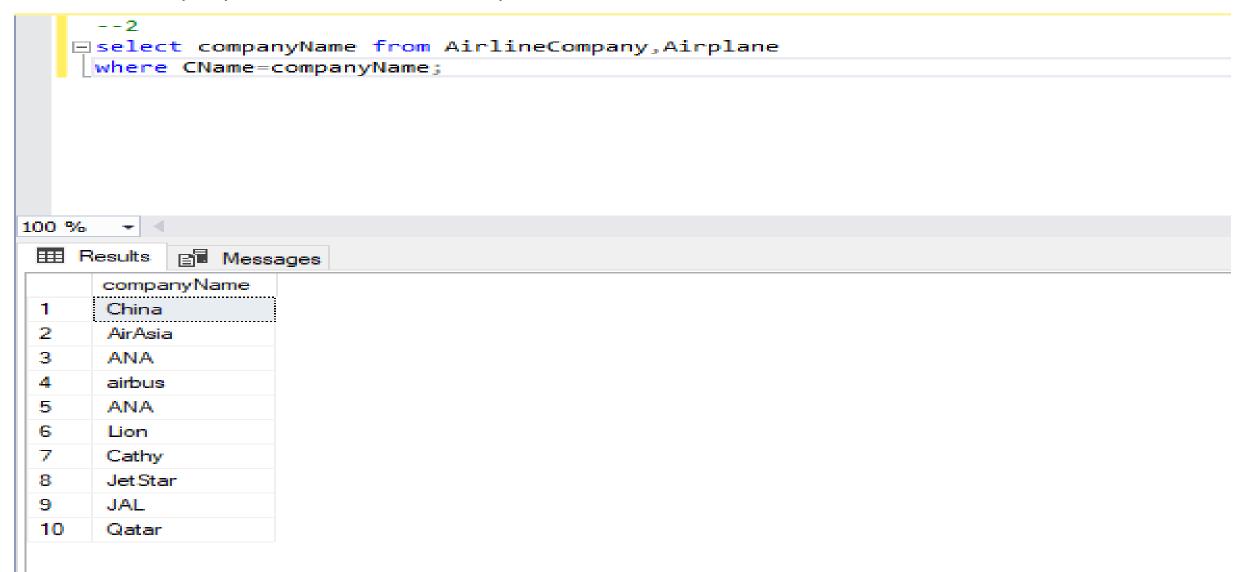
```
☐ select count(*) as 'number of journeys done during October 2015' from Journey

    where dateOfjourney>='2015-10-01' and dateOfjourney<='2015-10-30';

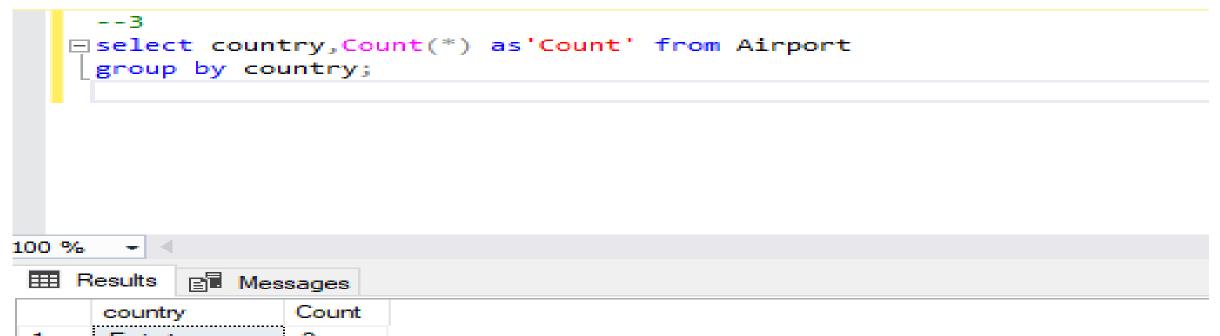
    ⊞ Results

          Messages
    number of journeys done during October 2015
```

List the company name of all available airplanes.

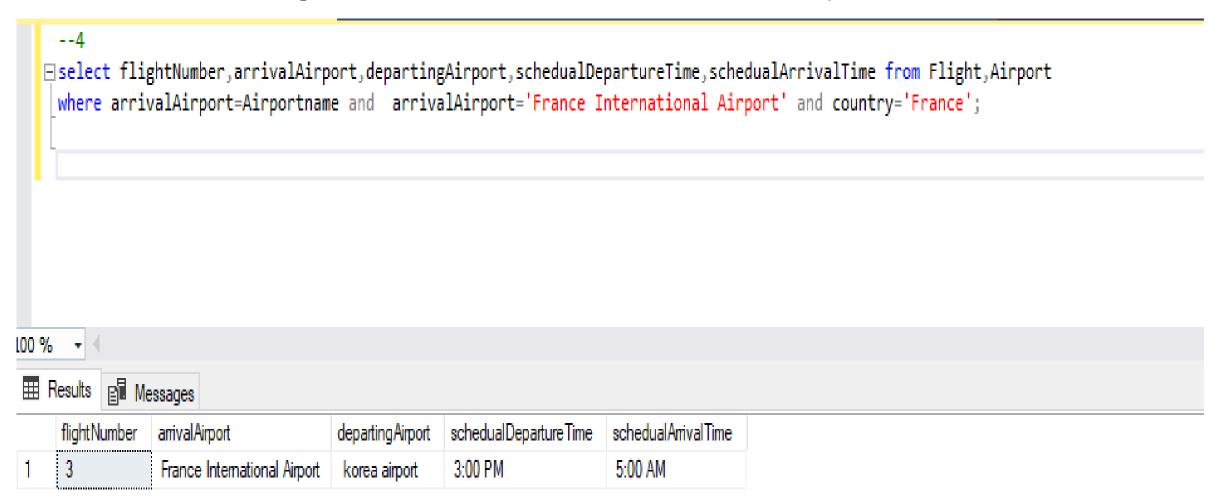


List the total number of airports in each country.

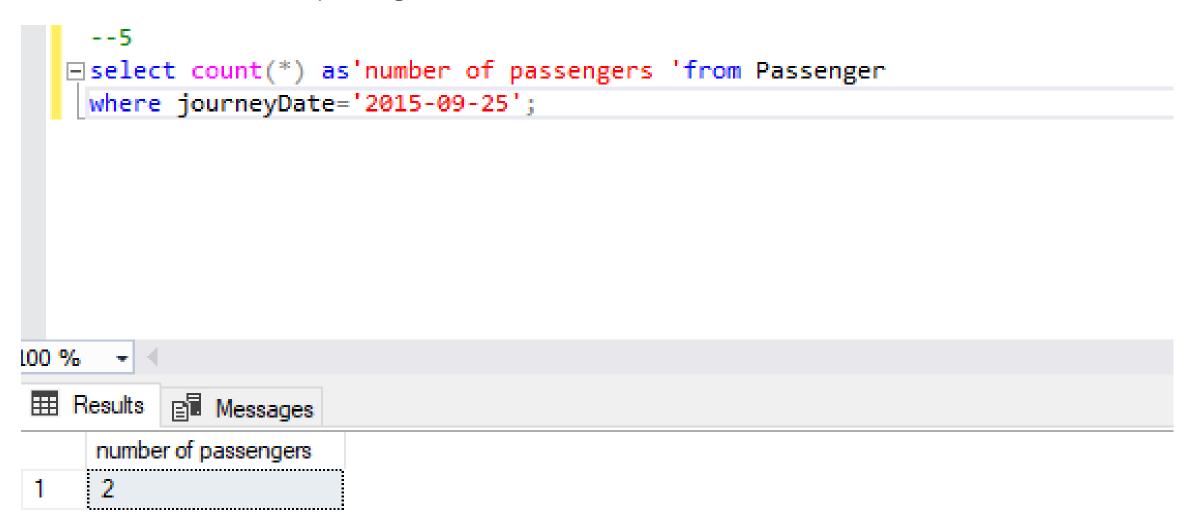


	country	Count
1	Emirates	2
2	France	1
3	Hong Kong	2
4	Kuala Lumpur	1
5	Lebanon	1
6	Melboume	1
7	Narita	1
8	Taipei	1

List flight number, departing airport name, arrival airport name, scheduled departure time, scheduled arrival time of all the flights that has 'France' as their destination country.



List the total number of passengers that traveled on '25-09-2015'.

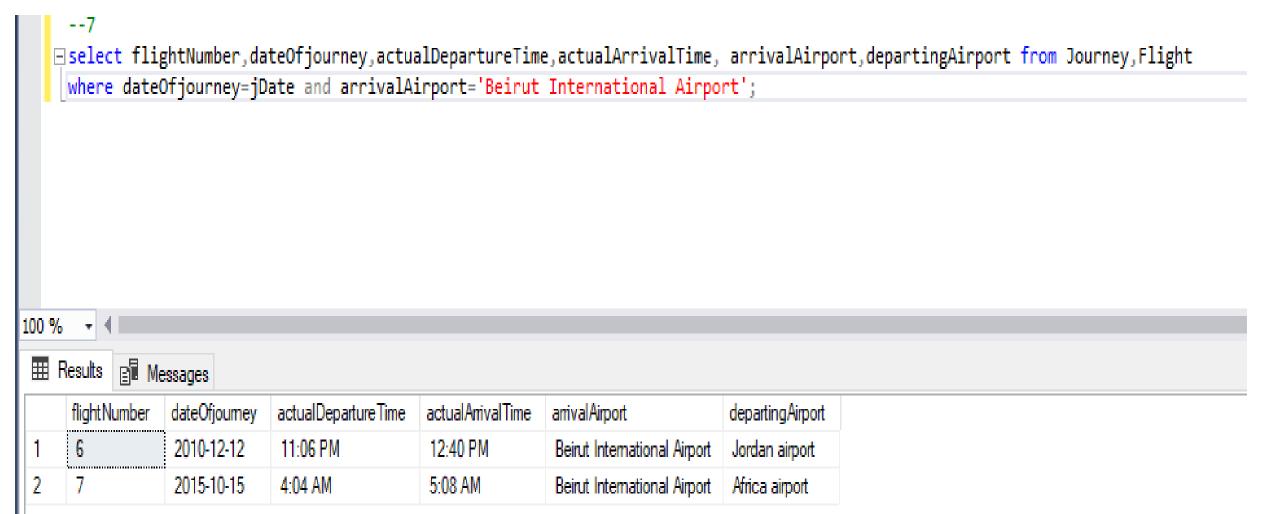


List the total number of passengers from each nationality that travelled on the journey date between '11-10-2015' and '16-10-2015' of the flight number '227'.

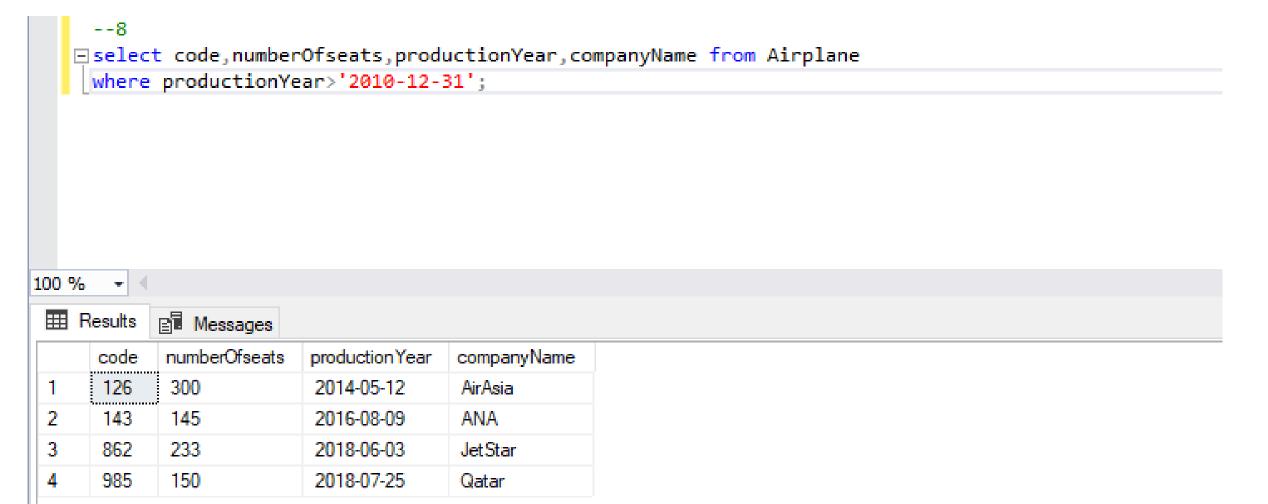
```
--6

☐ select count(*) as 'NumberOfPassengers' , nationality as 'nationality' from Passenger, Flight
    where journeyDate=jDate and journeyDate>='2015-10-11' and journeyDate<='2015-10-16'
    and flightNumber=227
    group by nationality;
.00 % +
Results Resages
     NumberOfPassengers
                      nationality
                       American
```

List journey date, flight number, departing airport name, arrival airport name, actual departure time, actual arrival time of all the journeys that departed or landed at 'Beirut International Airport'.



List airplane code, number of seats, production year and airplane company of all airplanes produced after the year '2010'.



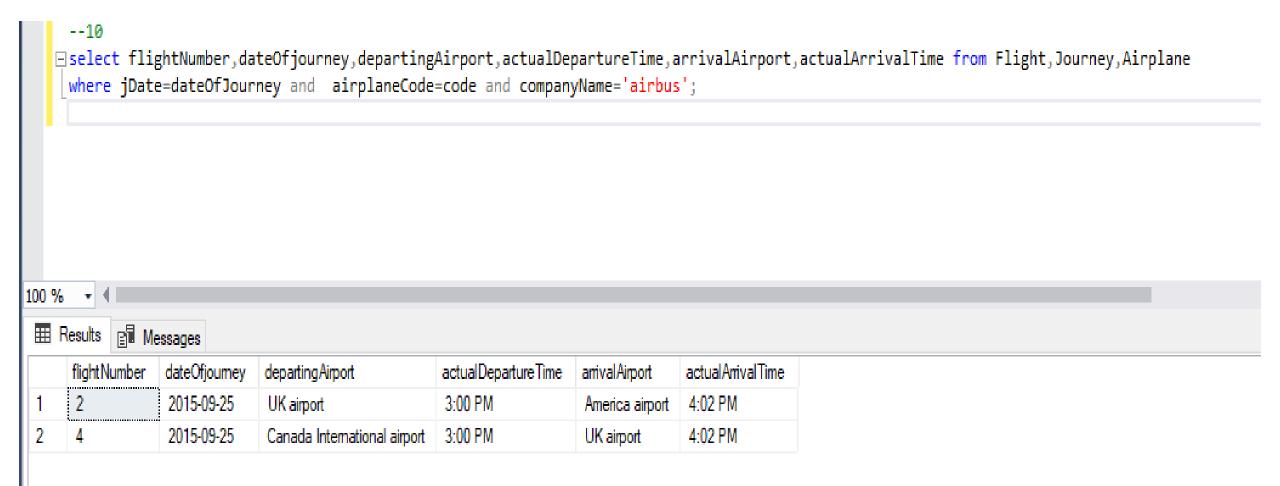
• List the average age of passengers who traveled to 'Lebanon' in '2015'.

```
--9

☐ select AVG(age) as 'average age' from Passenger, Flight, Airport

     where arrivalAirport=Airportname and country='Lebanon' and jDate=journeyDate
     and journeyDate>='2015-01-01' and journeyDate<='2015-12-31' and arrivalAirport='Beirut International Airport';
100 %
Results Messages
     average age
```

• List flight number, journey date, departing airport, actual departure time, arrival airport, actual arrival time of all flights that are done on airbus airplanes (company name = 'airbus') on '19-11-2015'



#### Conclusion

- As a conclusion, every database has a number of entities connected together with a one or more relations and here is the example of the airline company
- Thank You