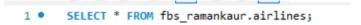
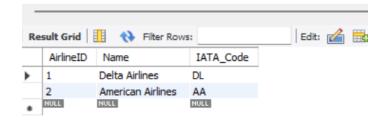
### **QUERIES**

# **Results from Database Creation Script**

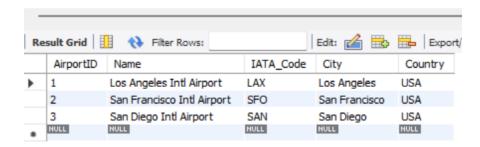
#### **Airlines**





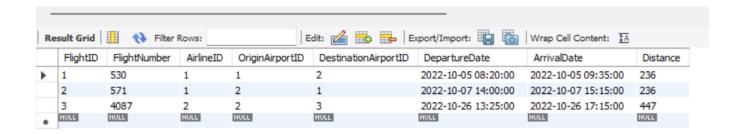
### **Airports**

1 • SELECT \* FROM fbs\_ramankaur.airports;



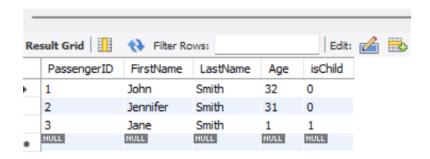
# **Flights**

1 • SELECT \* FROM fbs\_ramankaur.flights;



# **Passengers**

1 • SELECT \* FROM fbs\_ramankaur.passengers;



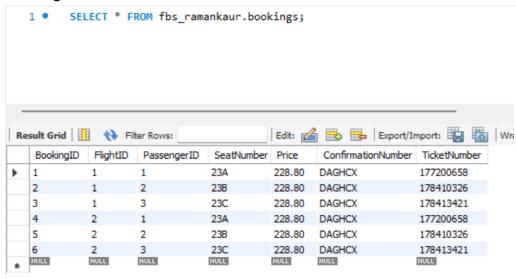
# Seats

1 • SELECT \* FROM fbs\_ramankaur.seats;

4 =					
Result Grid					
	FlightID	SeatNumber			
•	1	21A			
	1	21B			
	1	21C			
	1	22A			
	1	22B			
	1	22C			
	1	23A			
	1	23B			
	1	23C			
	2	21A			

FlightID	SeatNumber
2	21B
2	21C
2	22A
2	22B
2	22C
2	23A
2	23B
2	23C
3	21A
3	21B
3	21C
3	22A
3	22B
3	22C
3	23A
3	23B
3	23C
NULL	NULL

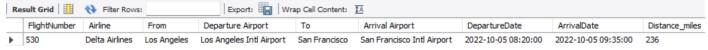
### **Bookings**



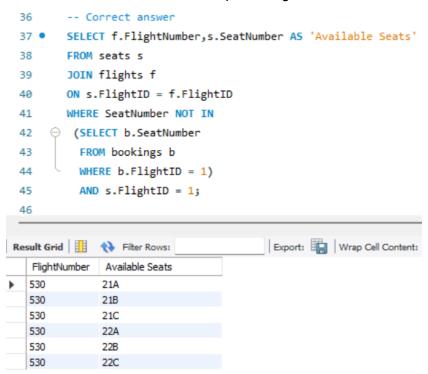
### **Queries Result**

1. Retrieve all flights from Los Angeles to San Francisco

```
-- 1) Retrieve all flights from Los Angeles to San Francisco
       SELECT FlightNumber, a. Name AS Airline,
 3 •
              o.City AS 'From', o. Name AS 'Departure Airport',
              d.City AS 'To', d.Name AS 'Arrival Airport',
              f.DepartureDate, f.ArrivalDate, Distance miles
 6
       FROM flights f
 7
       JOIN airports o
 8
       ON f.OriginAirportID = o.AirportID
 9
       JOIN airports d
10
       ON f.DestinationAirportID = d.AirportID
11
       JOIN airlines a
12
       ON f.AirlineID = a.AirlineID
13
       WHERE f.OriginAirportID = 1 AND f.DestinationAirportID = 2
14
```

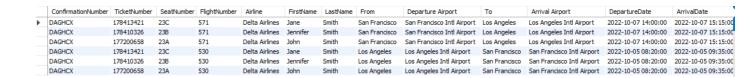


2. Find available seats on a specific flight



3. Retrieve the booking details for a specific confirmation number

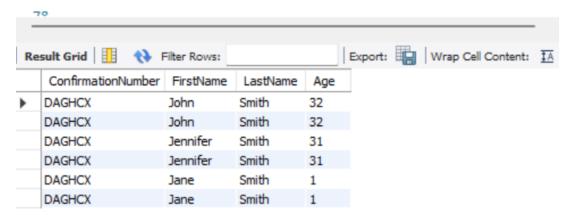
```
1
      -- 3) Retrieve the booking details for a specific confirmation number
      SELECT b.ConfirmationNumber,b.TicketNumber,b.SeatNumber,f.FlightNumber,a.Name AS 'Airline',
2 •
             FirstName, LastName, o. City AS 'From', o. Name AS 'Departure Airport',
3
             d.City AS 'To',d.Name AS 'Arrival Airport',
4
             f.DepartureDate, f.ArrivalDate
5
6
      FROM bookings b
      JOIN flights f
7
      ON b.FlightID = f.flightID
8
9
      JOIN passengers p
      ON b.PassengerID = p.PassengerID
      JOIN airports o
1
      ON o.AirportID = f.OriginAirportID
2
      JOIN airports d
3
      ON d.AirportID = f.DestinationAirportID
4
      JOIN airlines a
5
      ON f.AirlineID = a.AirlineID
6
      WHERE ConfirmationNumber = 'DAGHCX'
7
```



- 4. Find the total cost of a booking
- 67 -- Find the total cost of a booking
- 68 SELECT b.ConfirmationNumber, SUM(b.Price) AS TotalCost
- 69 FROM bookings b
- 70 WHERE b.ConfirmationNumber = 'DAGHCX'

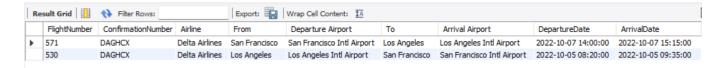


- 5. Retrieve all passengers in a specific booking
- 72 -- 5) Retrieve all passengers in a specific booking
- 73 SELECT ConfirmationNumber, FirstName, LastName, Age
- 74 FROM bookings b
- 75 JOIN passengers p
- 76 ON b.PassengerID = p.PassengerID
- 77 WHERE ConfirmationNumber = 'DAGHCX';

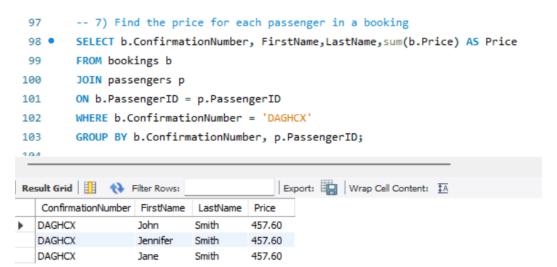


6. Get details of all flights booked under a specific confirmation number

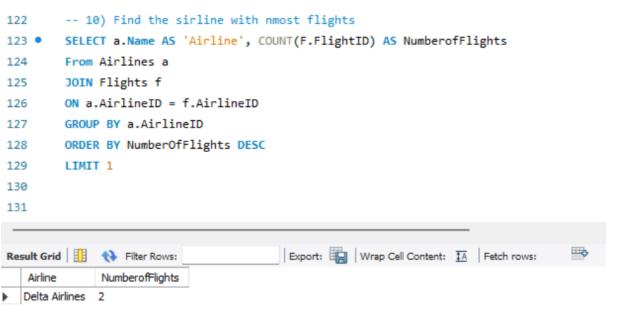
```
1
       -- 6) Get details of all flights booked under a specific confirmation number
       SELECT DISTINCT f.FlightNumber,
 2
              b.ConfirmationNumber,
 3
               a.Name AS 'Airline',
 4
              o.City AS 'From', o. Name AS 'Departure Airport',
 5
 6
              d.City AS 'To', d.Name AS 'Arrival Airport',
              f.DepartureDate, f.ArrivalDate, Distance miles
 7
       FROM bookings b
 8
       JOIN flights f
 9
       ON f.FlightID = b.flightID
10
11
       JOIN airlines a
       ON f.AirlineID = a.AirlineID
12
13
       JOIN airports o
       ON o.AirportID = f.OriginAirportID
14
       JOIN airports d
15
16
       ON d.AirportID = f.DestinationAirportID
       WHERE ConfirmationNumber = 'DAGHCX';
17
```



7. Find the price for each passenger in a booking



```
8. Find all children in a booking
105
          -- 8) Find all children in a booking
106 •
          SELECT ConfirmationNumber, FirstName, LastName, isChild
          FROM bookings b
107
          JOIN passengers p
108
109
          ON b.PassengerID = p.PassengerID
          WHERE ConfirmationNumber = 'DAGHCX' AND isChild = 1
110
 111
          GROUP BY FirstName, LastName
 112
                                               Export: Wrap Cell Content: $\frac{1}{4}$
Result Grid
                Filter Rows:
    ConfirmationNumber FirstName
                                 LastName
                                           isChild
   DAGHCX
                      Jane
                                Smith
                                          1
  9. Find the airline with the most flights
        -- 10) Find the sirline with nmost flights
122
       SELECT a.Name AS 'Airline', COUNT(F.FlightID) AS NumberofFlights
123 •
124
       From Airlines a
```



# 10. Update the price of Children (50% discount)

```
-- 9) Update the price of Children (50% discount)
122
        -- updating price
123
        UPDATE bookings b
124 •
        SET Price = Price * 0.5 WHERE b.PassengerID =
125
126
         (SELECT p.PassengerID
          FROM passengers p
127
          WHERE isChild = 1);
128
129
        -- Verifying results
130
        SELECT ConfirmationNumber, SeatNumber, FirstName, LastName, Price, isChild
131 •
        FROM bookings b
132
        JOIN passengers p
133
134
        ON b.PassengerID = p.PassengerID
        WHERE isChild = 1
135
                                         Export: Wrap Cell Content: ‡A
ConfirmationNumber | SeatNumber | FirstName
                                                      isChild
                                      LastName
                                               Price
                                               114.40
  DAGHCX
                  23C
                                     Smith
                            Jane
                                                      1
  DAGHCX
                  23C
                            Jane
                                     Smith
                                              114.40 1
```