

create database airline

select * from airline

95 %

Results Messages

	Gender	Age	Customer_Type	Type_of_Travel	Class	Flight_Distance	Departure_Delay	Arrival_Delay	Departure_and_Arrival_Time_Convenience	Ease_of_Online_Booking	Seat_Comfort	Leg_I
1	Male	48	First-time	Business	Business	821	2	5	3	3	5	2
2	Female	35	Returning	Business	Business	821	26	39	2	2	4	5
3	Male	41	Returning	Business	Business	853	0	0	4	4	5	3
4	Male	50	Returning	Business	Business	1905	0	0	2	2	5	5
5	Female	49	Returning	Business	Business	3470	0	1	3	3	4	4
6	Male	43	Returning	Business	Business	3788	0	0	4	4	4	4
7	Male	43	Returning	Business	Business	1963	0	0	3	3	5	5
8	Female	60	Returning	Business	Business	853	0	3	3	4	4	4
9	Male	50	Returning	Business	Business	2607	0	0	1	1	3	4
10	Female	38	Returning	Business	Business	2822	13	0	2	5	4	5
11	Female	28	First-time	Business	Business	821	0	5	1	1	2	5
12	Female	27	First-time	Business	Business	421	20	21	2	2	2	5
13	Male	24	First-time	Business	Econo...	453	16	30	2	2	5	4
14	Male	9	Returning	Personal	Business	853	68	76	5	1	5	3
15	Male	52	Returning	Personal	Econo...	853	0	0	4	2	2	3
16	Male	70	Returning	Personal	Econo...	821	0	0	5	2	5	2
17	Female	48	Returning	Personal	Econo...	821	0	0	3	2	1	2
18	Female	61	Returning	Personal	Econo...	821	0	0	5	2	5	2
19	Female	11	Returning	Personal	Econo...	853	0	0	5	3	5	2
20	Female	42	Returning	Personal	Econo...	821	4	0	3	3	4	3
21	Female	14	Returning	Personal	Econo...	853	12	1	1	3	4	3

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:01 | 129,880 rows

--1) total count of people -----

```
select count(Gender)as [count people] from airline
```

%

Results

Messages

count people
129880

--2) Age_Group wise count of people-----

```
WITH AgeGroups AS (  
    SELECT  
        CASE  
            WHEN Age BETWEEN 7 AND 10 THEN '7-10'  
            WHEN Age BETWEEN 11 AND 15 THEN '11-15'  
            WHEN Age BETWEEN 16 AND 20 THEN '16-20'  
            WHEN Age BETWEEN 21 AND 25 THEN '21-25'  
            WHEN Age BETWEEN 26 AND 30 THEN '26-30'  
            WHEN Age BETWEEN 31 AND 35 THEN '31-35'  
            WHEN Age BETWEEN 36 AND 40 THEN '36-40'  
            WHEN Age BETWEEN 41 AND 45 THEN '41-45'  
            WHEN Age BETWEEN 46 AND 50 THEN '46-50'  
            WHEN Age BETWEEN 51 AND 55 THEN '51-55'  
            WHEN Age BETWEEN 56 AND 60 THEN '56-60'  
            WHEN Age BETWEEN 61 AND 65 THEN '61-65'  
            WHEN Age BETWEEN 66 AND 70 THEN '66-70'  
            WHEN Age BETWEEN 71 AND 75 THEN '71-75'  
            WHEN Age BETWEEN 76 AND 80 THEN '76-80'  
            WHEN Age BETWEEN 81 AND 85 THEN '81-85'  
            ELSE 'Other'  
        END AS age_group FROM airline)  
SELECT age_group, COUNT(*) AS [count of peoples] FROM AgeGroups  
GROUP BY age_group  
ORDER BY [count of peoples] desc
```

95 %

Results Messages

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 16 rows

--2) Age_Group wise count of people-----

95 %

Results Messages

	age_group	count of peoples
1	36-40	15527
2	41-45	15090
3	21-25	14115
4	46-50	13916
5	26-30	12707
6	51-55	12323
7	56-60	11225
8	31-35	10865
9	16-20	6592
10	61-65	5009
11	11-15	4303
12	66-70	4081
13	7-10	3163
14	71-75	567
15	76-80	372
16	81-85	25

```
-- 3) Age_Group and Gender wise count of people -----
```

```
WITH AgeGroups AS (  
    SELECT  
        Age, Gender,  
        CASE  
            WHEN Age BETWEEN 7 AND 10 THEN '7-10'  
            WHEN Age BETWEEN 11 AND 15 THEN '11-15'  
            WHEN Age BETWEEN 16 AND 20 THEN '16-20'  
            WHEN Age BETWEEN 21 AND 25 THEN '21-25'  
            WHEN Age BETWEEN 26 AND 30 THEN '26-30'  
            WHEN Age BETWEEN 31 AND 35 THEN '31-35'  
            WHEN Age BETWEEN 36 AND 40 THEN '36-40'  
            WHEN Age BETWEEN 41 AND 45 THEN '41-45'  
            WHEN Age BETWEEN 46 AND 50 THEN '46-50'  
            WHEN Age BETWEEN 51 AND 55 THEN '51-55'  
            WHEN Age BETWEEN 56 AND 60 THEN '56-60'  
            WHEN Age BETWEEN 61 AND 65 THEN '61-65'  
            WHEN Age BETWEEN 66 AND 70 THEN '66-70'  
            WHEN Age BETWEEN 71 AND 75 THEN '71-75'  
            WHEN Age BETWEEN 76 AND 80 THEN '76-80'  
            WHEN Age BETWEEN 81 AND 85 THEN '81-85'  
            ELSE 'Other'  
        END AS age_group FROM airline)  
SELECT age_group,  
    COUNT(CASE WHEN Gender = 'Male' THEN 1 END) AS male_count,  
    COUNT(CASE WHEN Gender = 'Female' THEN 1 END) AS female_count FROM AgeGroups  
GROUP BY age_group  
ORDER BY male_count DESC, female_count DESC
```

95 %

Results Messages

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 16 rows

```
-- 3) Age_Group and Gender wise count of people -----
```

95 %

Results Messages

	age_group	male_count	female_count
1	36-40	7741	7786
2	41-45	7440	7650
3	46-50	6919	6997
4	21-25	6669	7446
5	26-30	6127	6580
6	51-55	6121	6202
7	56-60	5619	5606
8	31-35	5456	5409
9	16-20	3206	3386
10	61-65	2497	2512
11	11-15	2126	2177
12	66-70	2035	2046
13	7-10	1576	1587
14	71-75	262	305
15	76-80	178	194
16	81-85	9	16

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 16 rows

```
-- 4) how much people Gender wise customer_Type-----
```

```
SELECT Gender, Customer_Type, COUNT(Customer_Type) [Count of Customer Type] from airline  
group by Gender, Customer_Type
```

95 %

Results Messages

	Gender	Customer_Type	Count of Customer Type
1	Female	First-time	12843
2	Male	First-time	10937
3	Male	Returning	53044
4	Female	Returning	53056

-- 5) how much people Gender and Customer_Type wise Type of Travel-----

```
SELECT Gender, Customer_Type, Type_of_Travel, COUNT(Type_of_Travel) [count of travel type] from airline  
group by Gender, Customer_Type, Type_of_Travel  
ORDER BY [count of travel type] DESC
```

95 %

Results Messages

	Gender	Customer_Type	Type_of_Travel	count of travel type
1	Male	Returning	Business	33064
2	Female	Returning	Business	33050
3	Female	Returning	Personal	20006
4	Male	Returning	Personal	19980
5	Female	First-time	Business	12744
6	Male	First-time	Business	10835
7	Male	First-time	Personal	102
8	Female	First-time	Personal	99

-- 6) HOW Much people Gender wise class type-----

```
SELECT Gender,Class, COUNT(Class)[count of class] from airline  
GROUP BY Gender,Class
```

95 %

Results Messages

	Gender	Class	count of class
1	Male	Economy Plus	4445
2	Male	Business	30897
3	Male	Economy	28639
4	Female	Economy	29670
5	Female	Economy Plus	4966
6	Female	Business	31263

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 6 rows

-- 7) In which class do people travel the longest-----

```
SELECT Class, SUM(Flight_Distance) [sum of flight distance] from airline
GROUP BY Class
ORDER BY [sum of flight distance] DESC
```

95 %

Results Messages

	Class	sum of flight distance
1	Business	104185646
2	Economy	43381791
3	Economy Plus	7030856

✓ Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 3 rows

--8) Ease_of_Online_Booking rating category wise count of rating

```
SELECT Ease_of_Online_Booking, COUNT(Ease_of_Online_Booking) [Count of Rating] from airline  
GROUP BY Ease_of_Online_Booking  
ORDER BY [Count of Rating] DESC
```

95 %

Results Messages

	Ease_of_Online_Booking	Count of Rating
1	3	30393
2	2	30051
3	4	24444
4	1	21886
5	5	17424
6	0	5682

✓ Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 6 rows

--9) Gender and ease of online booking rating category wise count of rating

```
SELECT Gender,Ease_of_Online_Booking,COUNT(Ease_of_Online_Booking)[Count of Rating] from airline  
GROUP BY Gender, Ease_of_Online_Booking  
ORDER BY Ease_of_Online_Booking DESC
```

95 %

Results Messages

	Gender	Ease_of_Online_Booking	Count of Rating
1	Female	5	8791
2	Male	5	8633
3	Female	4	12252
4	Male	4	12192
5	Male	3	14991
6	Female	3	15402
7	Female	2	15406
8	Male	2	14645
9	Male	1	10728
10	Female	1	11158
11	Male	0	2792
12	Female	0	2890

```
-- 10) nseat comfort Service wise Ratings Count
```

```
SELECT Gender,Seat_Comfort,COUNT(Seat_Comfort)[Count of Rating] from airline  
GROUP BY Gender, Seat_Comfort  
ORDER BY [Count of Rating] DESC
```

95 %

Results Messages

	Gender	Seat_Comfort	Count of Rating
1	Female	4	20793
2	Male	4	18963
3	Female	5	16997
4	Male	5	16161
5	Female	3	12139
6	Male	3	11189
7	Male	2	9655
8	Female	2	8874
9	Male	1	8013
10	Female	1	7095
11	Female	0	1

✓ Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 11 rows

--11) Leg_Room_Service wise Count people

```
SELECT Gender, Leg_Room_Service, COUNT(Leg_Room_Service)[Count of Rating] from airline  
GROUP BY Gender, Leg_Room_Service  
ORDER BY [Count of Rating] DESC
```

95 %

Results Messages

	Gender	Leg_Room_Service	Count of Rating
1	Female	4	18056
2	Male	4	17830
3	Male	5	15857
4	Female	5	15048
5	Female	3	12839
6	Female	2	12747
7	Male	3	12217
8	Male	2	11793
9	Female	1	6691
10	Male	1	6204
11	Female	0	518
12	Male	0	80

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 12 rows

-- 12) Age Group and gender and cleanliness wise cleanliness rating

```
WITH AgeGroups AS (  
    SELECT  
        CASE  
            WHEN Age BETWEEN 7 AND 10 THEN '7-10'  
            WHEN Age BETWEEN 11 AND 15 THEN '11-15'  
            WHEN Age BETWEEN 16 AND 20 THEN '16-20'  
            WHEN Age BETWEEN 21 AND 25 THEN '21-25'  
            WHEN Age BETWEEN 26 AND 30 THEN '26-30'  
            WHEN Age BETWEEN 31 AND 35 THEN '31-35'  
            WHEN Age BETWEEN 36 AND 40 THEN '36-40'  
            WHEN Age BETWEEN 41 AND 45 THEN '41-45'  
            WHEN Age BETWEEN 46 AND 50 THEN '46-50'  
            WHEN Age BETWEEN 51 AND 55 THEN '51-55'  
            WHEN Age BETWEEN 56 AND 60 THEN '56-60'  
            WHEN Age BETWEEN 61 AND 65 THEN '61-65'  
            WHEN Age BETWEEN 66 AND 70 THEN '66-70'  
            WHEN Age BETWEEN 71 AND 75 THEN '71-75'  
            WHEN Age BETWEEN 76 AND 80 THEN '76-80'  
            WHEN Age BETWEEN 81 AND 85 THEN '81-85'  
            ELSE 'Other'  
        END AS age_group, Gender, Cleanliness FROM airline)  
SELECT age_group, Gender, Cleanliness, COUNT(*) [count_of_peopl] FROM AgeGroups  
GROUP BY age_group, Gender, Cleanliness  
ORDER BY age_group, Gender, Cleanliness
```

95 %

Results Messages

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 12 rows

-- 12) Age Group and gender and cleanliness wise cleanliness rating

95 %

Results Messages

	age_group	Gender	Cleanliness	count_of_peopl
1	11-15	Female	0	1
2	11-15	Female	1	369
3	11-15	Female	2	455
4	11-15	Female	3	466
5	11-15	Female	4	475
6	11-15	Female	5	411
7	11-15	Male	1	366
8	11-15	Male	2	456
9	11-15	Male	3	458
10	11-15	Male	4	437
11	11-15	Male	5	409
12	16-20	Female	0	1
13	16-20	Female	1	514
14	16-20	Female	2	698
15	16-20	Female	3	678
16	16-20	Female	4	791
17	16-20	Female	5	704
18	16-20	Male	0	1
19	16-20	Male	1	521
20	16-20	Male	2	611
21	16-20	Male	3	679
22	16-20	Male	4	730

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 167 rows

--13) Age Group and gender and Food_and_Drink wise count of people

```
WITH AgeGroups AS (  
    SELECT  
        CASE  
            WHEN Age BETWEEN 7 AND 10 THEN '7-10'  
            WHEN Age BETWEEN 11 AND 15 THEN '11-15'  
            WHEN Age BETWEEN 16 AND 20 THEN '16-20'  
            WHEN Age BETWEEN 21 AND 25 THEN '21-25'  
            WHEN Age BETWEEN 26 AND 30 THEN '26-30'  
            WHEN Age BETWEEN 31 AND 35 THEN '31-35'  
            WHEN Age BETWEEN 36 AND 40 THEN '36-40'  
            WHEN Age BETWEEN 41 AND 45 THEN '41-45'  
            WHEN Age BETWEEN 46 AND 50 THEN '46-50'  
            WHEN Age BETWEEN 51 AND 55 THEN '51-55'  
            WHEN Age BETWEEN 56 AND 60 THEN '56-60'  
            WHEN Age BETWEEN 61 AND 65 THEN '61-65'  
            WHEN Age BETWEEN 66 AND 70 THEN '66-70'  
            WHEN Age BETWEEN 71 AND 75 THEN '71-75'  
            WHEN Age BETWEEN 76 AND 80 THEN '76-80'  
            WHEN Age BETWEEN 81 AND 85 THEN '81-85'  
            ELSE 'Other'  
        END AS age_group, Gender, Food_and_Drink FROM airline)  
SELECT age_group, Gender, Food_and_Drink, COUNT(*) [count_of_people] FROM AgeGroups  
GROUP BY age_group, Gender, Food_and_Drink  
HAVING COUNT(*) < 500  
ORDER BY age_group, Gender, Food_and_Drink
```

95 %

Results Messages

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 89 rows

--13) Age Group and gender and Food_and_Drink wise count of people

95 %

Results Messages

	age_group	Gender	Food_and_Drink	count_of_people
1	11-15	Female	0	6
2	11-15	Female	1	357
3	11-15	Female	2	465
4	11-15	Female	3	477
5	11-15	Female	4	469
6	11-15	Female	5	403
7	11-15	Male	0	3
8	11-15	Male	1	358
9	11-15	Male	2	469
10	11-15	Male	3	467
11	11-15	Male	4	436
12	11-15	Male	5	393
13	16-20	Female	0	10
14	16-20	Male	0	3
15	21-25	Female	0	8
16	21-25	Male	0	18
17	26-30	Female	0	9
18	26-30	Male	0	9
19	31-35	Female	0	9
20	31-35	Male	0	6

Query executed successfully.

DESKTOP-LB6HGFV\SQLEXPRESS ... | DESKTOP-LB6HGFV\pc (80) | airline | 00:00:00 | 89 rows

--14) Class and Satisfaction wise count of people

```
SELECT Class,Satisfaction, COUNT(Satisfaction)[count of people] from airline  
GROUP BY Class,Satisfaction  
ORDER BY Class DESC
```

95 %

Results Messages

	Class	Satisfaction	count of people
1	Economy Plus	Neutral or Dissatisfied	7092
2	Economy Plus	Satisfied	2319
3	Economy	Neutral or Dissatisfied	47366
4	Economy	Satisfied	10943
5	Business	Satisfied	43166
6	Business	Neutral or Dissatisfied	18994