1-

```
1   --THE MOST 2 TRAVELLERS COUNTRIES
2   SELECT TOP 2 COUNTRY_NAME, COUNT(PASSENGER_SK) AS COUNT_OF_PASSENGERS FROM SUB_DIM_CONTINENT C JOIN DIM_AIRPORT A
3   ON C.AIRPORT_COUNTRY_CODE = A.AIRPORT_COUNTRY_CODE JOIN FACT_AIRLINE F
4   ON F.AIRPORT_SK = A.AIRPORT_SK
5   WHERE FLIGHT_STATUS != 'Cancelled'
6   GROUP BY COUNTRY_NAME
7   ORDER BY COUNT_OF_PASSENGERS DESC
```

Results   **Chart**

	A COUNTRY_NAME	# COUNT_OF_PASSENGERS
1	United States	14823
2	Australia	4239

2-

```
9    -- WHICH IS THE MOST MONTH HAS FLIGHTS
10   SELECT P.MONTH FROM DIM_DATE P JOIN FACT_AIRLINE F
11   ON P.DATE_SK  = F.DATE_SK JOIN DIM_AIRPORT A ON A.AIRPORT_SK = F.AIRPORT_SK
12   WHERE FLIGHT_STATUS != 'Cancelled'
13   GROUP BY P.MONTH
14   ORDER BY COUNT(A.DEPARTURE_DATE) DESC
15
```

Results   **Chart**

	# MONTH
1	12
2	11
3	1
4	7
5	9
6	8
7	10
8	5
9	2
10	3
11	4
12	6

3-

```
16   -- HOW MANY PASSENGERS TRAVEL EVERY MONTH
17   SELECT P.MONTH , COUNT(F.PASSENGER_SK) AS COUNT_OF_PASSENGER FROM DIM_DATE P JOIN FACT_AIRLINE F
18   ON P.DATE_SK  = F.DATE_SK JOIN DIM_AIRPORT A ON A.AIRPORT_SK = F.AIRPORT_SK
19   WHERE FLIGHT_STATUS != 'Cancelled'
20   GROUP BY P.MONTH
21   ORDER BY COUNT_OF_PASSENGER DESC
22
```

Results   **Chart**

	# MONTH	# COUNT_OF_PASSENGER
1	12	65442
2	11	26
3	1	23
4	7	23
5	9	23
6	8	22
7	10	22
8	5	21
9	2	20
10	3	19
11	4	19
12	6	17

4-

```sql
23    -- COUNT OF CACELLED TRIPS FOR EACH COUNTRY
24    SELECT COUNT(A.FLIGHT_STATUS) AS COUNT_OF_CANCELLED_FLIGHTS , C.COUNTRY_NAME FROM DIM_AIRPORT A JOIN SUB_DIM_CONTINENT C
25    ON C.AIRPORT_COUNTRY_CODE = A.AIRPORT_COUNTRY_CODE
26    WHERE A.FLIGHT_STATUS = 'Cancelled'
27    GROUP BY C.COUNTRY_NAME
28    ORDER BY COUNT_OF_CANCELLED_FLIGHTS DESC
29
```

Results | **Chart**

# COUNT_OF_CANCELLED_FLIGHTS	A COUNTRY_NAME
7281	United States
2131	Australia
1875	Canada
1540	Brazil
1518	Russian Federation
1336	Papua New Guinea
917	China
800	Indonesia
554	Colombia
508	Turkey
500	India

5-

```sql
30    -- COUNT OF CACELLED TRIPS FOR EACH
31    SELECT COUNT(A.FLIGHT_STATUS) AS COUNT_OF_CANCELLED_FLIGHTS , D.MONTH FROM DIM_AIRPORT A JOIN FACT_AIRLINE F
32    ON F.airport_sk = A.AIRPORT_SK JOIN DIM_DATE D
33    ON D.DATE_SK = F.DATE_SK
34    WHERE A.FLIGHT_STATUS = 'Cancelled'
35    GROUP BY D.MONTH
36    ORDER BY COUNT_OF_CANCELLED_FLIGHTS DESC
37
```

Results | **Chart**

# COUNT_OF_CANCELLED_FLIGHTS	# MONTH
32843	12
13	6
12	3
11	4
10	5
9	8
9	10
8	1
8	2
8	7
7	9
4	11

6-

```sql
38    -- TOP 1 VISITED CONTINENT
39    SELECT TOP 1 CONTINENTS, COUNT(PASSENGER_SK) AS COUNT_OF_PASSENGERS FROM SUB_DIM_CONTINENT C JOIN DIM_AIRPORT A
40    ON C.AIRPORT_COUNTRY_CODE = A.AIRPORT_COUNTRY_CODE JOIN FACT_AIRLINE F
41    ON F.AIRPORT_SK = A.AIRPORT_SK
42    WHERE FLIGHT_STATUS != 'Cancelled'
43    GROUP BY CONTINENTS
44    ORDER BY COUNT_OF_PASSENGERS DESC
```

Results | **Chart**

A CONTINENTS	# COUNT_OF_PASSENGERS
North America	21340

7-

```sql
--TOP TRAVELLER
SELECT TOP 1 P.PASSENGER_SK , FIRST_NAME ||' '|| LAST_NAME AS PASSENGER_NAME, COUNT(FLIGHT_STATUS)
FROM DIM_PASSENGER P JOIN FACT_AIRLINE F ON P.PASSENGER_SK = F.PASSENGER_SK JOIN
DIM_AIRPORT A ON A.AIRPORT_SK = F.AIRPORT_SK
WHERE FLIGHT_STATUS != 'Cancelled'
GROUP BY P.FIRST_NAME, P.LAST_NAME , P.PASSENGER_SK
ORDER BY COUNT(F.AIRPORT_SK) DESC
```

Results / Chart

# PASSENGER_SK	A PASSENGER_NAME	# COUNT(FLIGHT_STATUS)
1	Edithe Leggis	1

8-

```sql
-- TOP CANCELLER
SELECT TOP 1 P.PASSENGER_SK , FIRST_NAME ||' '|| LAST_NAME AS PASSENGER_NAME , COUNT(FLIGHT_STATUS)
FROM DIM_PASSENGER P JOIN FACT_AIRLINE F ON P.PASSENGER_SK = F.PASSENGER_SK JOIN
DIM_AIRPORT A ON A.AIRPORT_SK = F.AIRPORT_SK
WHERE FLIGHT_STATUS = 'Cancelled'
GROUP BY P.FIRST_NAME, P.LAST_NAME , P.PASSENGER_SK
ORDER BY COUNT(F.AIRPORT_SK) DESC
```

Results / Chart

# PASSENGER_SK	A PASSENGER_NAME	# COUNT(FLIGHT_STATUS)
7	Rand Bram	1

9-

```sql
-- NUMBER OF FEMALES
SELECT COUNT(GENDER) AS NUMBER_OF_FEMALES FROM DIM_PASSENGER P
WHERE GENDER = 'Female';
```

Results / Chart

NUMBER_OF_FEMALES
49021

10-

```sql
--NUMBER OF MALES
SELECT COUNT(GENDER) NUMBER_OF_MALES FROM DIM_PASSENGER P
WHERE GENDER = 'Male';
```

Results / Chart

NUMBER_OF_MALES
49598

11-

```sql
--TOP PILOT
SELECT TOP 1 PILOT_NAME, COUNT(FLIGHT_STATUS) AS COUNT_OF_FLIGHTS FROM DIM_AIRPORT A
WHERE FLIGHT_STATUS = 'On Time'
GROUP BY PILOT_NAME
ORDER BY COUNT_OF_FLIGHTS
```

Results / Chart

A PILOT_NAME	# COUNT_OF_FLIGHTS
Fransisco Hazeldine	1

12-

```sql
-- MOST CROWDED AIRPORT IN 6/28/2022
SELECT TOP 1 AIRPORT_NAME , COUNT(FLIGHT_STATUS) AS COUNT_OF_FLIGHTS FROM DIM_AIRPORT
WHERE FLIGHT_STATUS != 'Cancelled' and departure_date = '6/28/2022'
GROUP BY AIRPORT_NAME
ORDER BY COUNT_OF_FLIGHTS DESC
```

Results / Chart

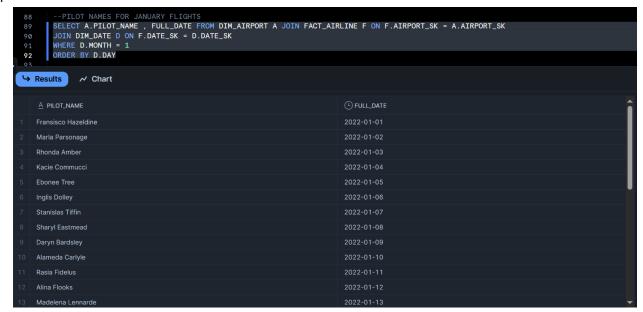| A AIRPORT_NAME	# COUNT_OF_FLIGHTS
Bucholz Army Air Field	2

13-

```sql
-- TOP 2 VISITED COUNTRIES
SELECT TOP 2 COUNTRY_NAME ,COUNT(A.ARRIVAL_AIRPORT) AS NUMBER_OF_VISITED_CONTRIES  FROM SUB_DIM_CONTINENT C JOIN DIM_AIRPORT A
ON C.AIRPORT_COUNTRY_CODE = A.AIRPORT_COUNTRY_CODE
GROUP BY COUNTRY_NAME
ORDER BY NUMBER_OF_VISITED_CONTRIES DESC
```

Results   Chart

COUNTRY_NAME	NUMBER_OF_VISITED_CONTRIES
1 United States	22104
2 Australia	6370

14-

```sql
--PILOT NAMES FOR JANUARY FLIGHTS
SELECT A.PILOT_NAME , FULL_DATE FROM DIM_AIRPORT A JOIN FACT_AIRLINE F ON F.AIRPORT_SK = A.AIRPORT_SK
JOIN DIM_DATE D ON F.DATE_SK = D.DATE_SK
WHERE D.MONTH = 1
ORDER BY D.DAY
```

Results   Chart

PILOT_NAME	FULL_DATE
1 Fransisco Hazeldine	2022-01-01
2 Marla Parsonage	2022-01-02
3 Rhonda Amber	2022-01-03
4 Kacie Commucci	2022-01-04
5 Ebonee Tree	2022-01-05
6 Inglis Dolley	2022-01-06
7 Stanislas Tiffin	2022-01-07
8 Sharyl Eastmead	2022-01-08
9 Daryn Bardsley	2022-01-09
10 Alameda Carlyle	2022-01-10
11 Rasia Fidelus	2022-01-11
12 Alina Flooks	2022-01-12
13 Madelena Lennarde	2022-01-13

15-

```sql
-- count of travellers
SELECT count(PASSENGER_SK) FROM FACT_AIRLINE F JOIN DIM_AIRPORT A
ON F.AIRPORT_SK = A.AIRPORT_SK
WHERE FLIGHT_STATUS != 'Cancelled'
```

Results   Chart

COUNT(PASSENGER_SK)
1	65677