Name : Ahmed Mohamed Youseff
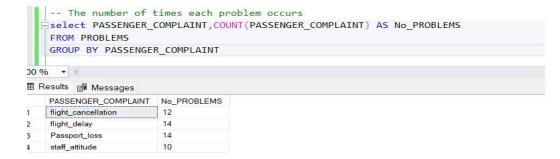
✚ **how long their overnight stays are?**

```sql
-- how long their overnight stays are?
SELECT P.PASSENGER_PK ,SUM(FLIGHT_DURATION) AS FLIGHT_DURATION
FROM FLIGHTS F, PASSENGERS P, RESERVATIONS R
WHERE P.PASSENGER_PK=R.PASSENGER_FK
AND R.FLIGHT_FK=F.FLIGHT_PK
GROUP BY P.PASSENGER_PK
```

Results | Messages

PASSENGER_PK	FLIGHT_DURATION
1	62
4	32
5	40
6	52
7	30
9	5

✚ **Which city has been visited more than once?**

```sql
--Which city has been visited more than once?
select  distinct FLIGHT_ARRIVAL_CITY,COUNT(FLIGHT_ARRIVAL_CITY) AS No_OF_visits
FROM FLIGHTS
GROUP BY FLIGHT_ARRIVAL_CITY
HAVING COUNT (FLIGHT_ARRIVAL_CITY)>1
```

100 %

Results | Messages

	FLIGHT_ARRIVAL_CITY	No_OF_visits
1	Bahrain	2
2	Bulgaria	2
3	Chile	2
4	Croatia	2
5	Cyprus	2
6	Luxembourg	2
7	Qatar	2
8	Samoa	2
9	Saudi Arabia	2
10	Sierra Leone	2
11	Singapore	2
12	Swaziland	2

The number of times each problem occurs

```sql
-- The number of times each problem occurs
select PASSENGER_COMPLAINT,COUNT(PASSENGER_COMPLAINT) AS No_PROBLEMS
FROM PROBLEMS
GROUP BY PASSENGER_COMPLAINT
```

00 % ▾ ◂

▦ Results ᴇ Messages

	PASSENGER_COMPLAINT	No_PROBLEMS
1	flight_cancellation	12
2	flight_delay	14
3	Passport_loss	14
4	staff_attitude	10

what proportion of these frequent flyers have gold, platinum, aluminum, or titanium status?

SQLQuery1.sql - (I...OUSEFF\ahmed (52)) ⊟ ✕

```sql
-- what proportion of these frequent flyers have gold, platinum, aluminum, or titanium status?
SELECT FLIGHT_FK,
(sum(GOLD_PASSENGERS)/sum(PASSENGER_FK)*100) as GOLD_PASSENGERS_PRSE,
(sum(TITANIUM_PASSENGERS)/sum(PASSENGER_FK)*100)as TITANIUM_PASSENGERS_PRSE,
(sum(PLATINUM_PASSENGERS)/sum(PASSENGER_FK)*100)as PLATINUM_PASSENGERS_PRSE,
(sum(ALUMINUM_PASSENGERS)/sum(PASSENGER_FK)*100)as ALUMINUM_PASSENGERS_PRSE
FROM MARKETING
group by FLIGHT_FK
```

100 % ▾ ◂

▦ Results ᴇ Messages

	FLIGHT_FK	GOLD_PASSENGERS_PRSE	TITANIUM_PASSENGERS_PRSE	PLATINUM_PASSENGERS_PRSE	ALUMINUM_PASSENGERS_PRSE
1	1	88.095200	35.714200	2.380900	5535.714200
2	4	5204.687500	4921.875000	3934.375000	16768.750000

how often they upgrade?

```sql
--  how often they upgrade?
SELECT FLIGHT_FK,SUM(UPGRADED_TICKETS) AS No_upgrade
FROM MARKETING
GROUP BY FLIGHT_FK
```

100 % ▾ ◂

▦ Results ᴇ Messages

	FLIGHT_FK	No_upgrade
1	1	5
2	4	5
3	6	1

♣ what flights the company's frequent flyers take?

```sql
use DWHAIRLINE

-- what flights the company's frequent flyers take?
select FLIGHT_NUMBER, COUNT(FLIGHT_NUMBER) as frequent_flight
from FLIGHTS
group by FLIGHT_NUMBER
having FLIGHT_NUMBER=Max(FLIGHT_NUMBER)
```
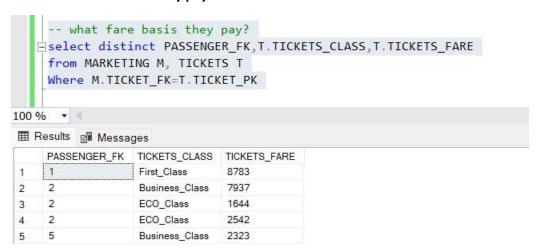
100 %

⊞ Results ▣ Messages

	FLIGHT_NUMBER	frequent_flight
1	696	1

♣ what fare basis they pay?

```sql
-- what fare basis they pay?
select distinct PASSENGER_FK,T.TICKETS_CLASS,T.TICKETS_FARE
from MARKETING M, TICKETS T
Where M.TICKET_FK=T.TICKET_PK
```

100 %

⊞ Results ▣ Messages

	PASSENGER_FK	TICKETS_CLASS	TICKETS_FARE
1	1	First_Class	8783
2	2	Business_Class	7937
3	2	ECO_Class	1644
4	2	ECO_Class	2542
5	5	Business_Class	2323

♣ The number of bookings in each channel

```sql
--The number of bookings in each channel
select RESERVATION_CHANNEL,COUNT(RESERVATION_CHANNEL) AS No_RESERVATION
FROM RESERVATIONS_CHANNEL
GROUP BY RESERVATION_CHANNEL
```

100 %

⊞ Results ▣ Messages

	RESERVATION_CHANNEL	No_RESERVATION
1	Booking	8
2	Booking Booking	3
3	Call_Center	8
4	Mobile_Application	15
5	Sales_Office	7
6	Travel_Agency	9