

Name : Reham Mohamady

- how long their overnight stays are?

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-- 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?

```
--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

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

100 %

Results 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?

```
-- 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 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?

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

100 %

Results Messages

	FLIGHT_FK	No_upgrade
1	1	5
2	4	5
3	6	1

what flights the company's frequent flyers take?

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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?

```

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

```

100 %

Results Messages

	PASSENGER_FK	TICKETS_CLASS	TICKETS_FAIR
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

```

--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