1) Total Number of flights in certain year

SELECT COUNT(Total_flight_completed) as "total fights completedS"
FROM flight_activity_fact ff
join d_date d
on ff.Date_key = d.Date_id
where d.year = '&year';

total fights cancelled
1 2

2) Average duration of delayed flights

SELECT round(AVG(ff.Flight_duration),2) as "avg of flights duration"
FROM flight_activity_fact ff

JOIN flight f
on ff.flight_key = f.flight_key
WHERE f.Arrival_Time > f.scheduled_arrival_time;

avg of flights duration
1 4650.96

3) Number of canceled flights in certain Month

SELECT COUNT(Total_flight_cancelled) as "total fights cancelled"
FROM flight_activity_fact ff
join d_date d
on ff.date_key = d.date_id
where d.Month_num = '&Month';

total fights cancelled
1 2

4) Which category has the most Problem severity ?

select Survey_Category, Problem_severity
from survey s, customer_care_fact c
where s.Survey_Key = c.Survey_Key AND Problem_severity <2;</pre>

SURVEY_CATEGORY	PROBLEM_SEVERITY
overall	1

5) avg of problem severity over all categories

select s.Survey_Category, avg(c.Problem_severity) as "Avg of problem severity"

from survey s, customer_care_fact c
where s.survey_key = c.survey_key
group by s.Survey_Category;

URVEY_CATEGORY	Avg of problem severity
verall	6
eservation	6.125
heck in	6.846153846
n flight	4.611111111

6) In which time the most surveys come ?

select count(Survey_ID) AS NO_OF_ID, Interaction_Date_Type
from Survey s, customer_care_fact c, Interaction I
where i.interaction_key = c.interaction_key and s.survey_key=
c.survey_key
and Interaction_Date_Type is not null
group by interaction_date_type
order by 1 desc;

7) getting the proportion of each frequent flyer category

```
select cat_type, round(count(cat_type) /
  (select count(p.frequent_flyer_key)
  from frequent_flyer f, passenger p, reservation_fact r
  where f.frequent_flyer_key = p.frequent_flyer_key and p.passenger_key
  = r.passenger_key),2)
  as "propation of category type"
  from reservation_fact r, passenger p, frequent_flyer f,
  frequent_flyer_cat c
  where p.passenger_key = r.passenger_key and f.frequent_flyer_key =
  p.frequent_flyer_key and
  c.frequent_flyer_cat_key=f.frequent_flyer_cat_key
  group by c.cat type;
```

	2 CAT_TYPE	propation of category type
1	silver	0.26
2	gold	0.2
3	titanium	0.26
4	platinum	0.28

8) how many frequent flyer change upgrade their flights

select class_change_indicator, count(*) as "number of frequent flyers"
from reservation_fact r, passenger p, frequent_flyer f
where p.passenger_key = r.passenger_key and f.frequent_flyer_key =
p.frequent_flyer_key
and class_change_indicator is not null
group by r.class change indicator;

	A	CLASS_CHANGE_INDICATOR	A	number of frequent flyers
1	1			26
2	0			16

9) number of accepting promotion for each frequent flyer

select p.passenger_id, f.promotion as "number of accepted promotions"
from reservation_fact r, passenger p, frequent_flyer f
where p.passenger_key = r.passenger_key and f.frequent_flyer_key =
p.frequent_flyer_key
and f.promotion is not null
order by 1

	A	PASSENGER_ID	A	number of accepted promotions
1		1		0
2		2		7
3		2		7
4		9		9
5		10		3
6		11		4
7		11		4

10) getting the percent of each value in all flights if it is transit or one flight

select count_flights_over, round(count(r.count_flights_over)/(select
count(r.count_flights_over) from reservation_fact r, passenger p,
frequent_flyer f
where p.passenger_key = r.passenger_key and f.frequent_flyer_key =
p.frequent_flyer_key
and r.count_flights_over is not null),2) * 100 || '%'
as "proportion of transit flights"
from reservation_fact r, passenger p, frequent_flyer f
where p.passenger_key = r.passenger_key and f.frequent_flyer_key =
p.frequent_flyer_key
and r.count_flights_over is not null
group by count_flights_over
order by 1

	_		_	
	A	COUNT_FLIGHTS_OVER	2	proportion of transit flights
1		1	35	ł
2		2	98	
3		3	169	b
4		4	7%	
5		5	33	ł.

11) total prices of reservations for each city

select city, sum(r.total_price)
from reservation_fact r, flight f, airport a, location l
where r.flight_key=f.flight_key and a.airport_key=f.airport_key
and l.location_key = a.location_key and l.city is not null
group by l.city
having sum(r.total_price) > 0
order by 2 desc;

	2 CITY	SUM(R.TOTAL_PRICE)
1	Sylvan Grove	27826
2	Maroa	26603
3	Boone Grove	24281
4	Marquand	20159
5	Genoa	18774
6	Zuni	16589
7	Jupiter	15756