1. **Total Number of flights in certain year**

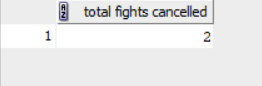
**SELECT COUNT(Total\_flight\_completed) as "total fights completedS"**

**FROM flight\_activity\_fact ff**

**join d\_date d**

**on ff.Date\_key = d.Date\_id**

**where d.year = '&year';**

****

1. **Average duration of delayed flights**

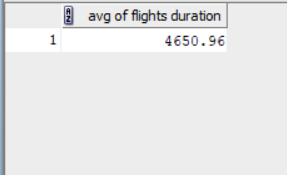
**SELECT round(AVG(ff.Flight\_duration),2) as "avg of flights duration"**

**FROM flight\_activity\_fact ff**

**JOIN flight f**

**on ff.flight\_key = f.flight\_key**

**WHERE f.Arrival\_Time > f.scheduled\_arrival\_time;**

****

1. **Number of canceled flights in certain Month**

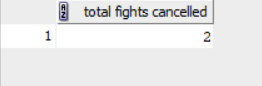
**SELECT COUNT(Total\_flight\_cancelled) as "total fights cancelled"**

**FROM flight\_activity\_fact ff**

**join d\_date d**

**on ff.date\_key = d.date\_id**

**where d.Month\_num = '&Month';**

****

1. **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;**

****

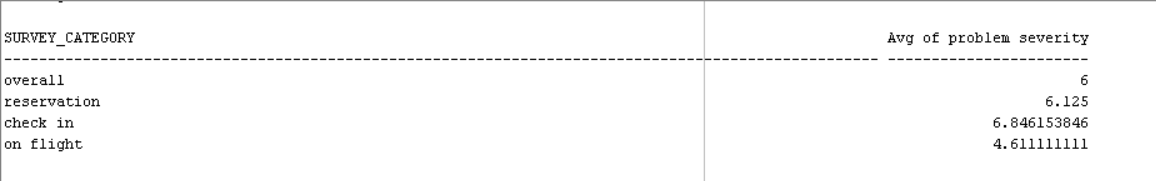
1. **avg of problem severity over all categories**

**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;**

****

1. **In which time the most surveys come ?**

**select count(Survey\_ID) AS NO\_OF\_ID, Interaction\_Date\_Type**

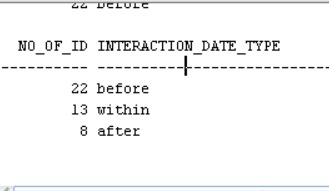
**from Survey s, customer\_care\_fact c, Interaction I**

**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;**

****

1. **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**

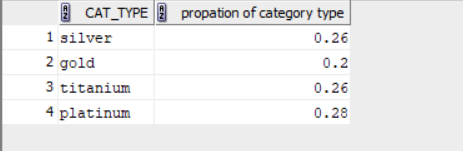
**where f.frequent\_flyer\_key = p.frequent\_flyer\_key and p.passenger\_key = r.passenger\_key),2)**

**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;**

****

1. **how many frequent flyer change upgrade their flights**

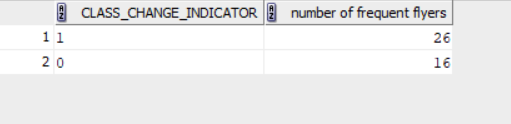
**select class\_change\_indicator, count(\*) as "number of frequent flyers"**

**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;**

****

1. **number of accepting promotion for each frequent flyer**

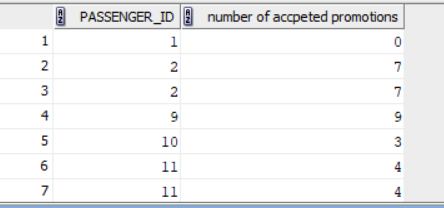
**select p.passenger\_id, f.promotion as "number of accpeted promotions"**

**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**

****

1. **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"**

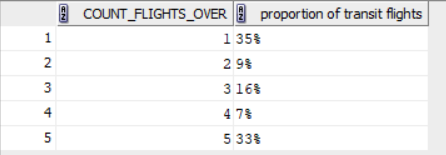
**from reservation\_fact r, passenger p, frequent\_flyer f**

**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**

****

1. **total prices of reservations for each city**

**select city, sum(r.total\_price)**

**from reservation\_fact r, flight f, airport a, location l**

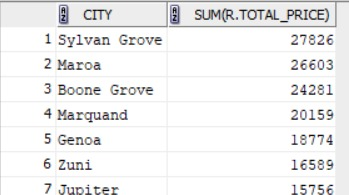
**where r.flight\_key=f.flight\_key and a.airport\_key=f.airport\_key**

**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;**

****