Queries

# NUMBER & TYPE OF INTERACTION PER FLIGHT

SELECT FACT.FLIGHT\_KEY, INTERACTIONS\_TYPE, count(\*) as NUM\_OF\_INTERACTIONS

FROM customer\_care FACT,

customer\_interactions C,

date\_dimension D,

flight F,

passenger P

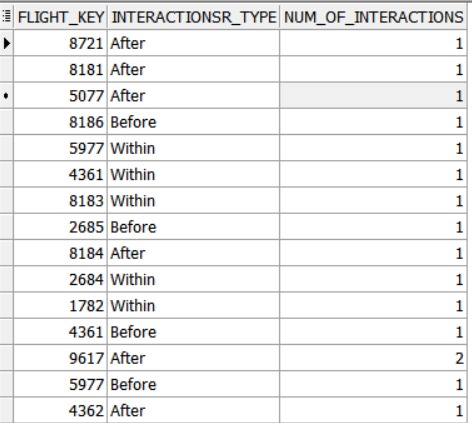
WHERE FACT.DATE\_KEY = d.DATE\_KEY

AND FACT.INTERACTIONS\_KEY = C.INTERACTIONS\_KEY

AND FACT.P\_KEY = P.P\_KEY

AND FACT.FLIGHT\_KEY = F.FLIGHT\_KEY

group by FACT.FLIGHT\_KEY, INTERACTIONS\_TYPE;



# AVERAGE PROBLEM SEVERITY PER FLIGHT

SELECT FACT.FLIGHT\_KEY, AVG(PROBLEM\_SEVERITY)

FROM customer\_care FACT,

customer\_interactions C,

date\_dimension D,

flight F,

passenger P

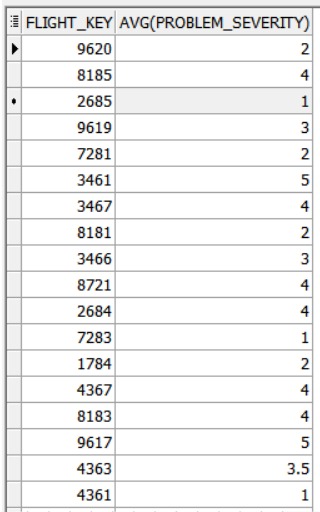
WHERE FACT.DATE\_KEY = D.DATE\_KEY

AND FACT.INTERACTIONS\_KEY = C.INTERACTIONS\_KEY

AND FACT.P\_KEY = P.P\_KEY

AND FACT.FLIGHT\_KEY = F. FLIGHT\_KEY

group by FACT.FLIGHT\_KEY;



# NUMBER OF TRIPS FREQUENTLY TAKEN

SELECT F.DEP\_AIRPORT , F.ARR\_AIRPORT, count(\*) as freq\_taken

FROM flight F,

passenger P,

reservation R

WHERE F.FLIGHT\_KEY= R.FLIGHT\_KEY

AND P.P\_KEY = R.P\_KEY

AND P.STATUS = 'Gold'

GROUP BY F.DEP\_AIRPORT, F.ARR\_AIRPORT

ORDER BY 3 DESC;



# AVG FARE BASE PER PASSENGER

SELECT P.P\_ID, ROUND(AVG(fare\_amount), 2) as avg\_farebase

FROM fare\_base FB,

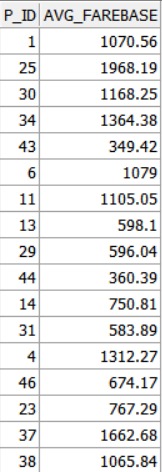
passenger P,

reservation R

WHERE P.P\_KEY = R.P\_KEY

AND FB.FARE\_KEY = R.FARE\_KEY

GROUP BY P.P\_ID;



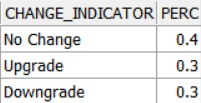
# HOW OFTEN THEY UPGRADE

SELECT change\_indicator, COUNT(\*)/(SELECT COUNT(change\_indicator)

FROM class ) as PERC

FROM class

GROUP BY change\_indicator;



# HOW THEY EARN AND REDEEM MILES

SELECT P.P\_ID , F.ARR\_AIRPORT, COUNT(F.FLIGHT\_NO) as flights\_no,

SUM(R.redeemed\_miles) as redemed\_miles

from flight F,

passenger P,

reservation R

WHERE F.FLIGHT\_KEY= R.FLIGHT\_KEY

AND P.P\_KEY = R.P\_KEY

GROUP BY P.P\_ID , F.ARR\_AIRPORT

ORDER BY 4;



# PROFIT PER QUARTER IN EVERY YEAR

SELECT year, quarter , SUM(FB.FARE\_AMOUNT) as revenue

FROM date\_dimension DD,

Fare\_base FB,

reservation R

WHERE DD.DATE\_KEY=R.DATE\_KEY

AND FB.FARE\_KEY = R.FARE\_KEY

GROUP BY year, quarter

ORDER BY year , quarter;



# PROFIT PER CHANNEL TYPE

SELECT RC.CHANNEL\_TYPE , SUM(FB.FARE\_AMOUNT) as revenue

FROM RESERVATION\_CHANNELS RC,

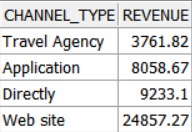
Fare\_base FB,

reservation R

WHERE RC.CHANNEL\_KEY =R.CHANNEL\_KEY

AND FB.FARE\_KEY = R.FARE\_KEY

GROUP BY RC.CHANNEL\_TYPE;



# HIGHEST PROFIT PER QUARTER EACH YEAR

SELECT \*

FROM

( SELECT year, quarter , SUM(FB.FARE\_AMOUNT) as revenue,

RANK() OVER(PARTITION BY year ORDER BY SUM(FB.FARE\_AMOUNT)) as rak

FROM date\_dimension DD,

Fare\_base FB,

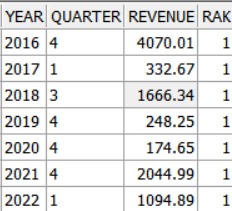
reservation R

WHERE DD.DATE\_KEY=R.DATE\_KEY

And FB.FARE\_KEY = R.FARE\_KEY

GROUP BY year, quarter) year\_rnk

WHERE rak = 1;



# AVERAGE NUMBER OF NIGHTS PER HOTEL

# 

SELECT F.FLIGHT\_KEY, H.HOTEL\_NAME , ROUND(AVG(OS.NUM\_NIGHTS), 2) as avg\_no

FROM flight F,

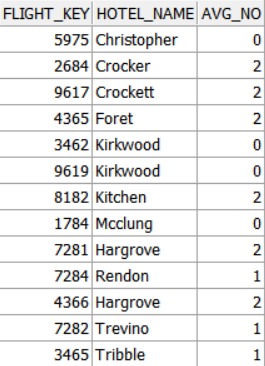
OVERNIGHT\_STAY OS,

hotel H

WHERE F.FLIGHT\_KEY = OS.FLIGHT\_KEY

AND OS.HOTEL\_KEY = H.HOTEL\_KEY

GROUP BY F.FLIGHT\_KEY, H.HOTEL\_NAME;



# NUMBER OF CUSTOMER IN EACH STATUS

SELECT P.STATUS, COUNT(P.STATUS)

FROM passenger P,

reservation R

where P.P\_KEY = R.P\_KEY

group by P.STATUS;

