--Report 4

select

decode(grouping(sa.city),1,'Any City',sa.city) as "Departure City",

decode(grouping(sa.country),1,'Any Country',sa.country) as "Departure Country",

decode(grouping(da.city),1,'Any City',da.city) as "Arrival City",

decode(grouping(da.country),1,'Any Country',da.country) as "Arrival Country",

sum(rf.TOTAL\_ROUTES) as "Number of Routes",

round(sum(rf.TOTAL\_ROUTE\_DISTANCE)/sum(rf.TOTAL\_ROUTES),2) as "Average Distance"

from route\_fact rf, source\_airport\_dim sa, dest\_airport\_dim da

where rf.sourceairportid = sa.airportid

and rf.destairportid = da.airportid

group by cube (sa.CITY, sa.COUNTRY, da.CITY, da.COUNTRY)

order by sa.COUNTRY,sa.CITY;

--Report 5

select decode(grouping(td.YEARNUMBER),1,'Any Year',td.YEARNUMBER) as "Flight Year",

decode(grouping(ad.NAME),1,'Any Airline',ad.NAME) as "Airline Name",

decode(grouping(ft.FLIGHT\_TYPE),1,'All Flight Type',ft.FLIGHT\_TYPE) as "Flight Type",

decode(grouping(sa.COUNTRY),1,'Any Country',sa.COUNTRY) as "Source Country",

decode(grouping(da.COUNTRY),1,'Any Country',da.COUNTRY) as "Destination Country",

sum(tf.TOTAL\_NUMBER\_\_TRANSACTIONS) as "Number of Transactions",

round((sum(tf.TOTAL\_TOTAL\_PAID) - sum(tf.TOTAL\_FARE))/sum(tf.TOTAL\_NUMBER\_\_TRANSACTIONS),2) as "Average Agent Profit(USD)"

from transaction\_fact tf, airline\_dim ad, flight\_type\_dim ft,

time\_dim td, source\_airport\_dim sa, dest\_airport\_dim da

where tf.AIRLINEID = ad.AIRLINEID

and tf.FLIGHT\_TYPE\_ID = ft.FLIGHT\_TYPE\_ID

and tf.time\_ID = td.time\_ID

and tf.SOURCE\_AIRPORT\_ID = sa.AIRPORTID

and tf.DEST\_AIRPORT\_ID = da.AIRPORTID

and (sa.COUNTRY = da.COUNTRY

or sa.COUNTRY != da.COUNTRY)

group by td.YEARNUMBER,ad.NAME, rollup (ft.FLIGHT\_TYPE,sa.COUNTRY,da.COUNTRY);

--Report 6

select

decode(grouping(td.DAYNAME),1,'Any Day',td.DAYNAME) as "Flight Day",

decode(grouping(ft.FLIGHT\_TYPE),1,'All Flight Type',ft.FLIGHT\_TYPE) as "Flight Type",

decode(grouping(tc.TRAVEL\_CLASS\_TYPE),1,'Any Class',tc.TRAVEL\_CLASS\_TYPE) as "Flight Class",

decode(grouping(sa.COUNTRY),1,'Any Country',sa.COUNTRY) as "Source Country",

decode(grouping(da.COUNTRY),1,'Any Country',da.COUNTRY) as "Destination Country",

sum(tf.TOTAL\_NUMBER\_\_TRANSACTIONS) as "Number of Transactions",

round(sum(tf.TOTAL\_TOTAL\_PAID)/ sum(tf.TOTAL\_NUMBER\_\_TRANSACTIONS),2) as "Average Paid Ticket(USD)"

from

transaction\_fact tf, time\_dim td, flight\_type\_dim ft,

travel\_class\_dim tc, source\_airport\_dim sa, dest\_airport\_dim da

where

tf.time\_id = td.time\_id

and tf.FLIGHT\_TYPE\_ID = ft.FLIGHT\_TYPE\_ID

and tf.TRAVEL\_CLASS\_ID = tc.TRAVEL\_CLASS\_ID

and tf.SOURCE\_AIRPORT\_ID = sa.AIRPORTID

and tf.DEST\_AIRPORT\_ID = da.AIRPORTID

group by td.DAYNAME, cube

(ft.FLIGHT\_TYPE,tc.TRAVEL\_CLASS\_TYPE,sa.COUNTRY,da.COUNTRY);