



Airline Ticketing System

Group Homework



Tables

- 1) Airport : id, name, city id, latitude, longitude
- 2) City : city id, name, province id
- 3) Province : id, name, country id
- 4) Country : id, name
- 5) Airline : id, name
- 6) Flight : id, date, source airport id, dest airport id, time, airline id, flight number, latest price, latest capacity
- 7) Price-capacity : flight id, date & time of latest capacity and price, price, capacity.

Notes

- city, province and country ids are all integers.
- flight number is not unique, so specify an id for each flight.
- both price and capacity can change any time.
- price is integer.

Queries

- 1) Airlines with the most number of flights. Categorize the based on following sample:

If number of flights =0 :

Return not active

If number of flights is between 1 and 5 -> active

If number of flights > 5 : highly active

- 2) All flights between Tehran and Isfahan.
- 3) Find the a date with the most number of flights. As an example on 1 Khordad 1400 we have 1000 flights have been done.
- 4) Flights which their destination is Tehran.
- 5) List all international flights.
- 6) Find a flight which it's price is more than average of all flight prices.