LAB 1 – BASIC SQL (WORKING WITH SINGLE TABLE)

- 1. Download airline.cvs file from the e-learning,
- 2. Quickly observe the column heading and value in each column.
- 3. Description of each column heading is as follows

Coulumn heading	Description
year	The year the month occurred
month	The month for which data was collected
carrier	The airline code
carrier_name	The airline name
airport	The airport code
airport_name	The airport name
arr_flights	# of flights that arrived at the airport
arr_del15	# of flights that arrived >= 15 minutes late
carrier_ct	# of flights delayed due to the carrier
weather_ct	# of flights delayed due to weather
nas_ct	# of flights delayed due to national air system
security_ct	# of flights delayed due to security
late_aircraft_ct	# flights delayed because a previous flight using the same aircraft was late
arr_cancelled	# of canceled arrivals
arr_diverted	# of scheduled arrivals that were diverted
arr_delay	Sum of the delay minutes
carrier_delay	Total minutes of delays due to carriers
weather_delay	Total minutes of delays due to weather
nas_delay	Total minutes of delays due to natl. air service
security_delay	Total minutes of delays due to security
late_aircraft_delay	Similar to late_aircraft_ct. The total minutes of delay due to a previous flight using the same aircraft arriving late.

- 4. Create appropriate database, table, attribute name and type
- 5. Upload the data from airline.csv into table created at step 4.
- 6. Perform the following write appropriate SQL statement
 - a) To print distinct carrier, distinct year, distinct airport name
 - b) To print to first 10 record of year, month, airport name, carrier name and number of arrival at the airport in descending order according to number of arrival
 - c) To fetch no of cancel arrival for each carrier
 - d) To fetch all data on # of flights delayed due to security for carrier American Airline in year 2003
 - e) To fetch all data of Alaska Airline where the # of flights delayed due to weather between 10 and 20

- f) Display all airport name, year, month for # of flights that arrived at the airport is more than 500 flight
- g) Calculate the average delays to security in airport with airport code OAK
- h) Find the average of flights that arrived >= 15 minutes late by each carrier