**IST 659 LAB Assignment NO -6**

1. Find out all flight schedule information of flight “3310” and “3312”. Make sure to show all the fields.

**Query:**

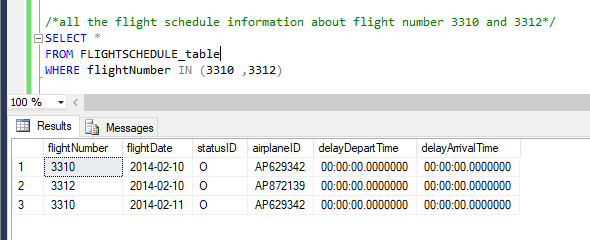
/\*all the flight schedule information about flight number 3310 and 3312\*/

SELECT \*

FROM FLIGHTSCHEDULE\_table

WHERE flightNumber IN (3310 ,3312)

**Result:**



1. Find all flights departing from airports that start with ‘S’. Show flight number, depart airport, arrival airport, and depart time.

**Query:**

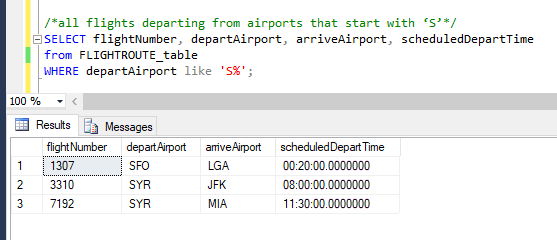
/\*all flights departing from airports that start with ‘S’\*/

SELECT flightNumber, departAirport, arriveAirport, scheduledDepartTime

from FLIGHTROUTE\_table

WHERE departAirport like 'S%';

**Result:**



1. Find 4 most recently purchased planes. Show airplane ID and purchase date only.

**Query:**

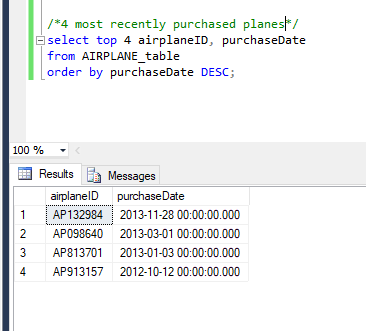
/\*4 most recently purchased planes\*/

select top 4 airplaneID, purchaseDate

from AIRPLANE\_table

order by purchaseDate DESC;

**Result:**

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1. Count the number of flights departing each day. Show the date and the number of flights.

**Query:**

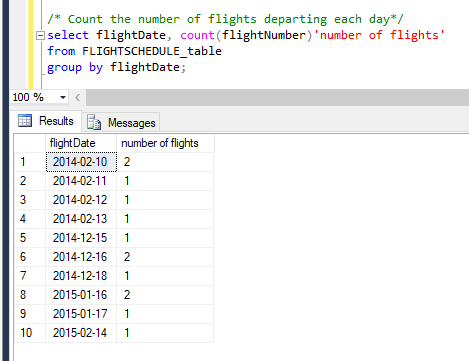
/\* Count the number of flights departing each day\*/

select flightDate, count(flightNumber)'number of flights'

from FLIGHTSCHEDULE\_table

group by flightDate;

**Result:**



1. Sort the AircraftSpecs table by fuel capacity in descending order. Show the result with

aircraft version and fuel capacity.

**Query:**

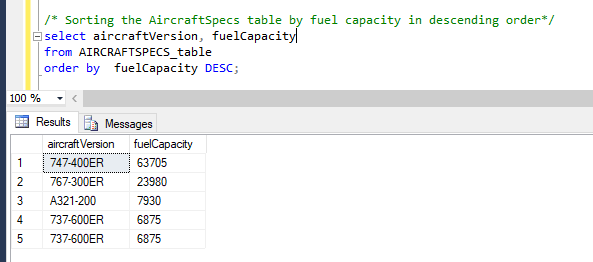
/\* Sorting the AircraftSpecs table by fuel capacity in descending order\*/

select aircraftVersion, fuelCapacity

from AIRCRAFTSPECS\_table

order by fuelCapacity DESC;

**Result:**



1. Find all airplanes which flew in the first half of Feb 2014 (From Feb 1- to Feb 14) and the flight status was “on time”. Show airplane ID, purchase date, flight number, and status ID.

**Query:**

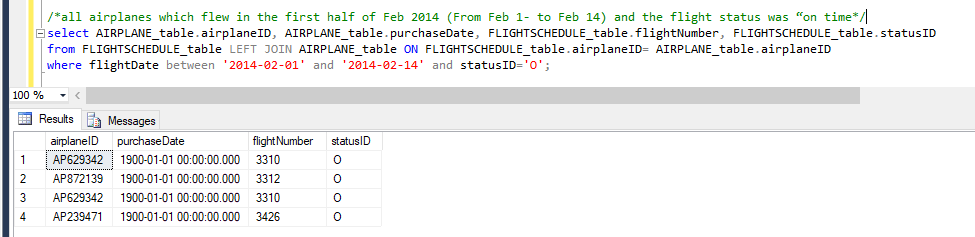
/\*all airplanes which flew in the first half of Feb 2014 (From Feb 1- to Feb 14) and the flight status was “on time\*/

Select AIRPLANE\_table.airplaneID, AIRPLANE\_table.purchaseDate, FLIGHTSCHEDULE\_table.flightNumber, FLIGHTSCHEDULE\_table.statusID

from FLIGHTSCHEDULE\_table LEFT JOIN AIRPLANE\_table ON FLIGHTSCHEDULE\_table.airplaneID= AIRPLANE\_table.airplaneID

where flightDate between '2014-02-01' and '2014-02-14' and statusID='O';

**Result:**



1. Find all flights which depart from “BOS” after noon. Show flight number, flight date, depart airport and scheduled depart time.

**Query:**

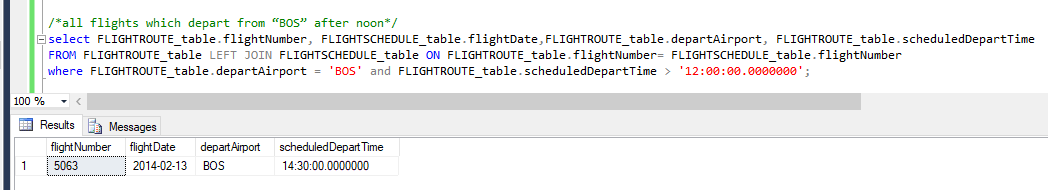
/\*all flights which depart from “BOS” after noon\*/

select FLIGHTROUTE\_table.flightNumber, FLIGHTSCHEDULE\_table.flightDate,FLIGHTROUTE\_table.departAirport, FLIGHTROUTE\_table.scheduledDepartTime

FROM FLIGHTROUTE\_table LEFT JOIN FLIGHTSCHEDULE\_table ON FLIGHTROUTE\_table.flightNumber= FLIGHTSCHEDULE\_table.flightNumber

where FLIGHTROUTE\_table.departAirport = 'BOS' and FLIGHTROUTE\_table.scheduledDepartTime > '12:00:00.0000000';

**Result:**



1. Find all airplanes which were delayed or cancelled. Show only airplane ID, flight date and status description.

**Query:**

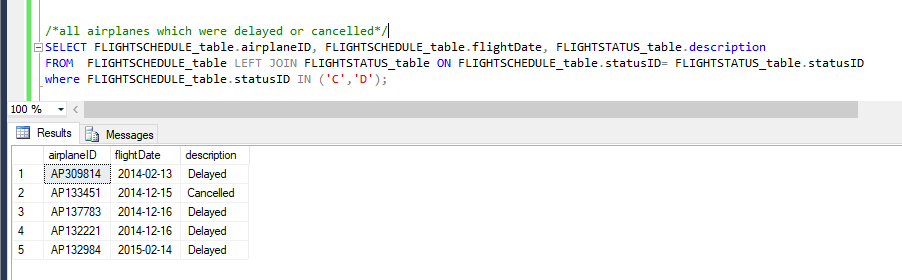
/\*all airplanes which were delayed or cancelled\*/

SELECT FLIGHTSCHEDULE\_table.airplaneID, FLIGHTSCHEDULE\_table.flightDate, FLIGHTSTATUS\_table.description

FROM FLIGHTSCHEDULE\_table LEFT JOIN FLIGHTSTATUS\_table ON FLIGHTSCHEDULE\_table.statusID= FLIGHTSTATUS\_table.statusID

where FLIGHTSCHEDULE\_table.statusID IN ('C','D');

**Result:**



1. Find the flight(s) which are “on time”, display the Flight number and departure airport

**Query:**

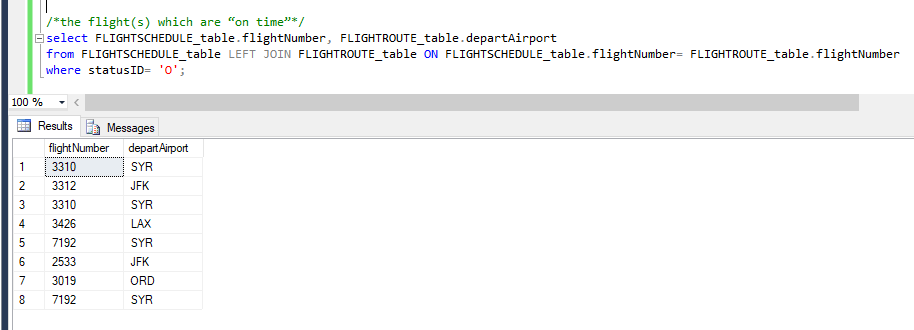
/\*the flight(s) which are “on time”\*/

select FLIGHTSCHEDULE\_table.flightNumber, FLIGHTROUTE\_table.departAirport

from FLIGHTSCHEDULE\_table LEFT JOIN FLIGHTROUTE\_table ON FLIGHTSCHEDULE\_table.flightNumber= FLIGHTROUTE\_table.flightNumber

where statusID= 'O';

**Result:**



1. Find all the airplanes that have not been scheduled to fly. (You can use Left Join)

**Query:**

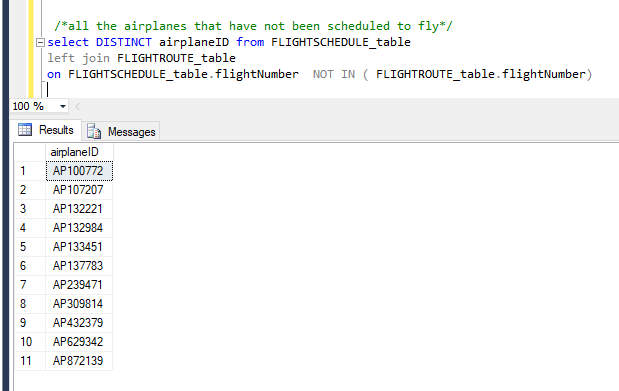
/\*all the airplanes that have not been scheduled to fly\*/

select DISTINCT airplaneID from FLIGHTSCHEDULE\_table

left join FLIGHTROUTE\_table

on FLIGHTSCHEDULE\_table.flightNumber NOT IN ( FLIGHTROUTE\_table.flightNumber)

**Result:**



1. Find all only airplanes that have been scheduled to fly and delayed. Display Airplane ID of the flight (Use Right Join)

**Query:**

/\*all only airplanes that have been scheduled to fly and delayed. Display Airplane ID of the flight\*/

select DISTINCT airplaneID from FLIGHTSCHEDULE\_table

right join FLIGHTROUTE\_table

on FLIGHTROUTE\_table.flightNumber IN (FLIGHTSCHEDULE\_table.flightNumber)

where statusID='D'

**Result:**

