

Assignment 3 SQL  
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Question 1:

- a) SELECT \* FROM Flights  
ORDER BY Airline.Name ASC;
- b) SELECT Restriction, Amount \* 1.15 AS Amount\_After\_Taxes  
FROM Fares  
WHERE Amount > 50;
- c) DELETE Top(5) percent FROM Department;
- d) SELECT Airline.Type.Name, Number\_of\_Seats  
FROM AIRPLANE.Type;
- e) SELECT Airline.Type.Name  
FROM AIRPLANE.Type  
WHERE Airline.Type.Name LIKE 'E%T';

f) SELECT F. Flight-number, A<sub>1</sub>. Name AS Departure-Airport<sup>Name</sup>,  
 A<sub>2</sub>. Name AS Arrival-Airport-Name, ~~FL. Departure-time~~, ~~FL. Scheduled~~,  
 FL. Schedule-departure-time, ~~FL. Scheduled~~. Arrival-time, AT. Airplane-type

FROM Flight F

JOIN FLIGHT.LEG FL ON F. Flight-number = FL. Flight-number

JOIN LEG.INSTANCE LI ON F. Flight-number =  
 FL. Flight-number AND LI. Leg-number = LI. Leg-number

JOIN Airport AS A<sub>1</sub> ON LI. Departure-airport-code  
 = A<sub>1</sub>. Airport-code

JOIN Airport AS A<sub>2</sub> ON LI. Arrival-Airport-code  
 = A<sub>2</sub>. Airport-code

JOIN Airplane AS AP ON LI, Airplane-id = AP. Airplane

JOIN Airplane-Type AS AT ON AP, Airplane-type =  
 AT. Airplane-type WHERE F. weekday = "Monday"

g) SELECT F. Flight-number, F. Airline, A<sub>1</sub>. Name as  
 Departure-airport, A<sub>2</sub>. Name AS Arrival-airport, FL. Scheduled-  
 departure-time, FL. Scheduled-arrival-time

FROM Flight F

JOIN Flight.LEG FL ON F. Flight-number =  
 FL. Flight-number

JOIN AIRPORT A<sub>2</sub> ON FL. Arrival-airport-code =  
 A<sub>2</sub>. Airport-code

WHERE F. Airline LIKE '%Air%'

The **Bonus** question was done in programiz because microsoft sql isn't working:

```
CREATE TABLE Flights (  
    Flight_Number VARCHAR(10) PRIMARY KEY,  
    Airline_Name VARCHAR(50),  
    Departure_Airport VARCHAR(50),  
    Arrival_Airport VARCHAR(50),  
    Departure_Time TIME,  
    Arrival_Time TIME  
);  
  
INSERT INTO Flights (Flight_Number, Airline_Name, Departure_Airport, Arrival_Airport, Departure_Time, Arrival_Time)  
VALUES  
    ('EG101', 'Egyptair', 'Cairo', 'Dubai', '10:00', '14:00'),  
    ('EG102', 'Egyptair', 'Cairo', 'London', '15:00', '20:00'),  
    ('QR201', 'Qatar Airways', 'Doha', 'Cairo', '08:00', '09:30'),  
    ('QR202', 'Qatar Airways', 'Cairo', 'Doha', '17:00', '18:30');
```

**Flights**

Flight_Number	Airline_Name	Departure_Airport	Arrival_Airport	Departure_Time	Arrival_Time
EG101	Egyptair	Cairo	Dubai	10:00	14:00
EG102	Egyptair	Cairo	London	15:00	20:00
QR201	Qatar Airways	Doha	Cairo	08:00	09:30
QR202	Qatar Airways	Cairo	Doha	17:00	18:30