a) Display a list of all flights, airline should be sorted alphabetically.

```
Select Flight_number, Airline
from FLIGHT
order by Airline
```

b) For the fares with amount over 50$, display the Restrictions, and amount after taxes . Note: Taxes = 15%.

```
Select Restrictions, Amount*1.15 as Amountwithtax
 from FARE
  where Amount>50
```

c) Delete 5% from the records in SEAT_Reservation table.

```
Delete Top(5) percent from SEAT_Reservation
```

d) For each AIRLPLAINE_TYPE, display a list of Airline_type_name and he number of seats the airplane has.

```
Select Airplane_type_name , Max_Seats
from AIRPLANE_TYPE
```

e) Retrieve the name of airplane type whose name starts with E and ends with T.

```
Select Airplane_type_name
From AIRPLANE_TYPE
where Airplane_type_name like 'E%' AND
Airplane_type_name like '%T'
```

f) Write a SQL query to list all flights along with their departure and arrival airport names, departure and arrival times, and the airplane type used for each flight leg. Ensure that only flights scheduled on a specific weekday (Monday) are included in the results.

```
Select LI.Flight_Number,(select Name from AIRPORT
where Airport_code = LI.Departure_airport_code) as
departure_airport,(select Name from AIRPORT
where Airport_code = LI.Arrival_airport_code) as
Arrival_airport, Departure_time, Arrival_time,airplane_id
From LEG_INSTANCE LI, AIRPLANE A, FLIGHT F
where A.Airplane_id= LI.Airplane_id AND
LI.Flight_Number = F.flight_number AND
F.weekdays = 'Monday'
```

j) Write a SQL query to find all flights operated by airlines whose name contains the word "Air". The query should return the flight number, airline name, departure airpor name, arrival airport name, and scheduled departure and arrival times for each leg of the flight.

```
Select LI.Flight_number,F.Airline (select Name from
AIRPORT where Airport_code
= LI.Departure_airport_code) as departure_airport,
(select Name from AIRPORT where Airport_code
= LI.Arrival_airport_code) as Arrival_airport,
LI.Departure_time, LI.Arrival_time
From LEG_INSTANCE LI, FLIGHT F
where L.flight_number = F.Flight_number AND
F.Airline Like '%Air%'
```

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```
create table AIRPORT(
Airport_code varchar(5) primary key,
Name varchar(50),
City varchar(50),
State varchar(50)
);
insert into AIRPORT ( Airport_code, Name, City, State)
values ('JFK', 'John F. Kennedy International Airport', 'New York', 'New York'),
('LAX', 'Los Angeles International Airport', 'Los Angeles', 'California'),
('MIA', 'Miami International Airport', 'Miami', 'Florida');
select * from AIRPORT
```

100 %

Results | Messages

	Airport_code	Name	City	State
1	JFK	John F. Kennedy International Airport	New York	New York
2	LAX	Los Angeles International Airport	Los Angeles	California
3	MIA	Miami International Airport	Miami	Florida