a) Select Flight_number, Airline

  FROM FLIGHT

  Order by Airline;

b) Select Restrictions, Amount × 1,15 as Amount_tax

  FROM FARE

  Where Amount > 50;

c) Delete from SEAT_RESERVATION

  where ROWID IN (Select ROWID from SEAT_RESERVATION

  SAMPLE (5));

  $\longrightarrow$ 5%

d) SElect AIRPLANE_TYPE, Max_seats as number of seats

  FROM AIRPLANE_TYPE

e) Select Airplane_type_name

  FROM AIRPLANE_TYPE

  Where Airplane_type_name like "E%T"   pattern
                                             match
                                 anything after

f)

```sql
Select   F. Flight_number, Fl.schdl Departure_time, Fl.schdl Arrival_time,
DA.Airport_code as dept_airport , AA. Airport_code as arr_airport
   AT. Airplane_type_name
   FROM   FLIGHT  F
   Join FLIGHT_LEG FL ON  F. Flight_number = FL. Filight_number
   Join  LEG-INSTANCE LI  on  FL. Filight_number = LI. Filight_number
   and FL. Leg_number = LI. Leg_number
   Join  AIRPORT  DA  on FL. Deptur_arpt_code = DA. airport_code
   Join  AIRPORT  AA  on  FL. Arrival_airpt_code = AA. airport_code
   Join  AIRPLANE  A  on  LI. Airplane_id = A. airplane_id
   Join   AIRPLANE_TYPE  AT  on  A. Airplane_type =
                                 AT. Airplane_type_name
   where  F.weekdays  like "%Monday%"


ii) Select  F. Flight_number, F. Airline, FL.shdl. Departure_time, Fl.schdl Arrival_time
DA.Airport_code  as  dept_airport , AA. Airport_code as arr_airport
   FROM   FLIGHT  F
   Join  FLIGHT_LEG FL  on  F. Filight_number = LI. Filight_number
   Join  AIRPORT  DA  on FL.shdl Deptur_arpt_code = DA. airport_code
   Join  AIRPORT  AA  on FL.shdl Arrival_airpt_code = AA. airport_code
   where  F. Airline  like  " %Air %"
```

BONUS!

① Insert data

Input   Run SQL   Available Tables

```sql
);
INSERT INTO Airport (airport_code, name, city, state)
VALUES ('ATL', 'Hartsfield-Jackson Atlanta International Airport',
'Atlanta', 'Georgia'),
 ('LAX', 'Los Angeles International Airport', 'Los Angeles',
'California'),
 ('DFW', 'Dallas/Fort Worth International Airport', 'Dallas/Fort Worth',
'Texas'),
 ('DEN', 'Denver International Airport', 'Denver', 'Colorado'),
 ('ORD', 'OHare International Airport', 'Chicago', 'Illinois'),
 ('BOS', 'Boston Logan International Airport', 'Boston', 'Massachusett')
;
```

Output

SQL query successfully executed.

ATL	Atlanta International Airport	Atlanta	Georg
LAX	Los Angeles International Airport	Los Angeles	Califor
DFW	Dallas/Fort Worth International Airport	Dallas/Fort Worth	Texas
DEN	Denver International Airport	Denver	Colorc
ORD	OHare International Airport	Chicago	Illinois
BOS	Boston Logan International Airport	Boston	Massa

② Retrieve data

Input   Run SQL   Available Tables

```sql
INSERT INTO Airport (airport_code, name, city, state)
VALUES ('ATL', 'Hartsfield-Jackson Atlanta International Airport',
'Atlanta', 'Georgia'),
 ('LAX', 'Los Angeles International Airport', 'Los Angeles',
'California'),
 ('DFW', 'Dallas/Fort Worth International Airport', 'Dallas/Fort Worth',
'Texas'),
('DEN', 'Denver International Airport', 'Denver', 'Colorado'),
 ('ORD', 'OHare International Airport', 'Chicago', 'Illinois'),
 ('BOS', 'Boston Logan International Airport', 'Boston', 'Massachusett')
;
 */
SELECT *
FROM Airport;
```

Output

airport_code	name	city	state
ATL	Hartsfield-Jackson Atlanta International Airport	Atlanta	Georgia
LAX	Los Angeles International Airport	Los Angeles	California
DFW	Dallas/Fort Worth International Airport	Dallas/Fort Worth	Texas
DEN	Denver International Airport	Denver	Colorado
ORD	OHare International Airport	Chicago	Illinois

Airport

airport_code	name	city	state
ATL	Hartsfield-Jackson Atlanta International Airport	Atlanta	Georg
LAX	Los Angeles International Airport	Los Angeles	Califor
DFW	Dallas/Fort Worth International Airport	Dallas/Fort Worth	Texas
DEN	Denver International Airport	Denver	Colorc
ORD	OHare International Airport	Chicago	Illinois
BOS	Boston Logan International Airport	Boston	Massa

https://github.com/mariamsherifsoliman/
Assignment3_SoftwareEngineering.git