README

#Installation

sudo apt-get update && sudo apt-get -y upgrade

sudo apt-get install python-pip

sudo apt-get install sqlitebrowser

sudo pip install tabulate sudo -H pip install pandas

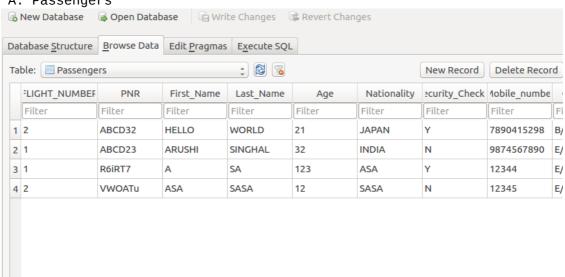
#Commands

- 1) Type "sqlitebrowser" on terminal to run sqlite browser. This can be used to dochanges in database if required. Used the sql data base instead of Csv/xsl as it is easy to load and store.
- 2) To run python code type "python code.py" on terminal.

#Working

Screenshot of the part of database tables

A. Passengers



B. Flights

FLIGHT_NAME	SOURCE	DESTINATION	SIZE	.IGHT_NUMBE	:PARTURE_TIM	ARRIVAL_TIME	PRICE
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
INDIGO	Α	В	2	1	2018-07-20	2018-07-21	900
INDIGO	В	Α	50	2	2018-07-21	2018-07-21	100
SPICEJET	С	Α	100	3	2018-07-20	2018-07-21	1000
SPICEJET	Α	С	100	4	2018-07-21	2018-07-21	1000
JET	D	A	200	5	2018-07-20	2018-07-21	300
JET	Α	D	200	6	2018-07-21	2018-07-21	780
INDIGO	Α	В	150	7	2018-07-20	2018-07-21	345
INDIGO	В	Α	150	8	2018-07-21	2018-07-21	600
GO	С	Α	80	9	2018-07-20	2018-07-21	700

3) Run code

```
seema@seema-Inspiron-15-3567:~/microsoft_hack$ python code.py

Press S if you are Security Personnel.

Press F if you are Flight Staff.

Press P if Passengers.

Press 1 to know the details of all flights departing and arriving from particular airport.

Press 2 to see list of all passengers arriving or departing from particular airport.

Press E to exit.

Input: S
```

4) Press S if want to see Security Functionality 4.a

There are many other options to choose and is explained in the code itself.

5)Press F if flight staff

```
Press S if you are Security Personnel.
Press F if you are Flight Staff.
Press P if Passengers.
Press 1 to know the details of all flights departing and arriving from particular airport.
Press 2 to see list of all passengers arriving or departing from particular airport.
Press E to exit.
Input: F
To see passengers who cleared security checkin PRESS 6 else PRESS 1 to exit: 6
otal number of passengers who cleared security checkin for this flight are 2 out of 2 total passengers.
Passenger details
                 | First_Name | Last_Name | Gender | Class/Seat | Mobile_number
      PNR
   0 | R6iRT7 | A
1 | ABCD23 | ARUSHI
                                    | SA
| SINGHAL
                                                      | M
                                                                     | E/2
| E/1
                                                                                                        12344
                                                                                                 9874567890
ype Y if want to delete this information else N: N
```

6) Press P if you are passenger

```
Press 5 if you are Security Personnel.
Press F if you are Flight Staff.
Press P if Passengers.
Press 1 to know the details of all flights departing and arriving from particular airport.
Press 2 to eac list of all passengers arriving or departing from particular airport.
Press 2 to eac list of all passengers arriving or departing from particular airport.
Press 2 to exit.
Press 1 to see e-ticket of already booked flight details
Press 3 to row booking
Input: 1
Enter your PNR number: ABCD23
Enter your PNR number: ABCD23
Enter your Last name: SINGHAL
PNR First Name | Last Name | FLIGHT NUMBER | SOURCE | DESTINATION | PRICE | DEPARTURE_TIME | ARRIVAL_TIME |
PNR First Name | Last Name | FLIGHT NUMBER | SOURCE | DESTINATION | PRICE | DEPARTURE_TIME | ARRIVAL_TIME |
PRESS 1 to see e-ticket of already booked flight details
PRESS 2 to exit
PRESS 3 for doing web-checktn
PRESS 4 for doing web-checktn
PRESS 4 for doing web-checktn
PRESS 2 to exit
PRESS 4 for doing web-checktn
PRESS 4 for doing web-checktn
PRESS 5 to exit
PNR | First Name | Last Name | FLIGHT_NUMBER | SOURCE | DESTINATION | PRICE | DEPARTURE_TIME | ARRIVAL_TIME |
PNR FIRST NAME | Last Name | FLIGHT_NUMBER | SOURCE | DESTINATION | PRICE | DEPARTURE_TIME | ARRIVAL_TIME |
ARRIVAL_TIME |
PNR | First Name | Last Name | FLIGHT_NUMBER | SOURCE | DESTINATION | PRICE | DEPARTURE_TIME | ARRIVAL_TIME |
ARRIVAL_TIME |
PNR | First Name | Last Name | FLIGHT_NUMBER | SOURCE | DESTINATION | PRICE | DEPARTURE_TIME | ARRIVAL_TIME |
ARRIVAL_TIME |
ARRIVAL_TIME |
ARRIVAL_TIME |
PNR | First Name | Last Name | FLIGHT_NUMBER | SOURCE | DESTINATION | PRICE | DEPARTURE_TIME | ARRIVAL_TIME |
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```
Press 5 if you are Security Personnel.

Press I tr you are Filipht Staff.

Press I tr you are Filipht Staff.

Press I to see Filipht Staff.

Press I to see Lits of all passengers arriving or departing from particular airport.

Press 2 to see Lits of all passengers arriving or departing from particular airport.

Press I to see elicited of aiready booked flight details ores for doing web-checkin

Press I to see elicited of aiready booked flight details ores for doing web-checkin

Press 3 to see the cities with airport

FIGHT_STATIONS

B

B

C

D

Press 1 to book else press 2 to exit: 1

Name of boarding station: A

Name of destination station: B

FIGHT_NAME | SOURCE | DESTINATION | SIZE | FIGHT_NUMBER | DEPARTURE_TIME | AMBIVAL_TIME | PRICE |

D | INDIGO | A | B | 155 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

1 | INDIGO | A | B | 155 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

1 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

1 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

2 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

3 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

4 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

5 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

5 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

5 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

5 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 900 |

5 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 345 |

6 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 345 |

8 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 345 |

9 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 345 |

10 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 345 |

10 | INDIGO | A | B | 150 | 7 | 2018-07-20 23:00 | 2018-07-21 03:00 | 345 |
```

7) See list of flight coming and going from a station

```
Press S if you are Security Personnel.
Press F if you are Flight Staff.
Press P if Passengers.
Press 1 to know the details of all flights departing and arriving from particular airport.
Press 2 to see list of all passengers arriving or departing from particular airport.
Press E to exit.
Input: 1
   list of all the cities with airport
FLIGHT_STATIONS
 Input name of the city for which you want to see flight details else PRESS 1 to exit: A
                                                                                                                                                          SIZE | FLIGHT_NUMBER | DEPARTURE_TIME
                                                                                                | DESTINATION |
                I FLIGHT NAME
                                                               I SOURCE
                                                                                                                                                                                                                                                                                        I ARRIVAL TIME
                                                                                                                                                                                                                                                                                                                                                            PRICE
                                                                                                                                                                                                                                  2018-07-20 23:00

2018-07-21 02:00

2018-07-21 02:00

2018-07-20 23:00

2018-07-20 23:00

2018-07-21 03:00

2018-07-21 02:00

2018-07-21 02:00

2018-07-20 23:00

2018-07-20 23:00

2018-07-21 02:00

2018-07-21 03:00

2018-07-21 03:00
        0 | INDIGO
1 | INDIGO
2 | SPICEJET
3 | SPICEJET
4 | JET
5 | JET
6 | INDIGO
7 | INDIGO
8 | GO
9 | GO
                                                                                                                                                                                                                                                                                            2018-07-21 01:00 |

2018-07-21 04:00 |

2018-07-21 01:00 |

2018-07-21 01:00 |

2018-07-21 01:00 |

2018-07-21 05:00 |

2018-07-21 01:00 |

2018-07-21 01:00 |
                                                                                                                                                                                                                                                                                                                                                                 900
100
                                                                   ABCADAABCADA
                                                                                                    B A A C A D B A A C A D
                                                                                                                                                              50
100
                                                                                                                                                                                                                                                                                                                                                                1000
                  SPICEJET
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JET
INDIGO
INDIGO
GO
                                                                                                                                                                                                                                                                                                                                                               1000
300
780
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                                                                                                                                                             100
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200
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2018-07-21 04:00
2018-07-21 04:00
2018-07-21 04:00
2018-07-21 05:00
                                                                                                                                                                                                                                                                                                                                                                 600
700
800
                    SPICEJET
SPICEJET
                                                                                                                                                              110
110
                                                                                                                                                                                                                      12 I
```

8) List of passengers going or coming from a particular route.

```
Press S if you are Security Personnel.

Press F if you are Flight Staff.

Press P if Passengers.

Press 1 to know the details of all flights departing and arriving from particular airport.

Press 2 to see list of all passengers arriving or departing from particular airport.

Press E to exit.

Tabult 2
To get the list and count of passengers who are either coming and going from particular station press 6 else press 1 to exit: 6
Enter airport name: A
Total of passengers are: 5
Passenger details
                                                                                                                                  Mobile_number |
                                                                                                  Class/Seat I
                                                                                                                                                                 FLIGHT_NUMBER | SOURCE
                        I First Name
                                                   | Last Name
                                                                                                                                                                                                                I DESTINATION
           PNR
                                                                             I Gender
           ABCD32 |
ABCD23 |
R6iRT7 |
                                                                                                   B/1
E/1
E/2
E/2
E/3
                                                                                                                                                                                       2 | B
1 | A
1 | A
2 | B
2 | B
                                                                                                                                        7890415298
                           HELLO
                                                      WORLD
                                                                               F
M
M
M
                                                                                                                                                                                                                  A
B
B
A
A
                           ARUSHI
A
ASA
ARUSHI
                                                       SINGHAL
                                                                                                                                       9874567890
12344
                                                     SA
SASA
SINGHAL
           VWOATu
jYTtII
                                                                                                                                                 12345
                                                                                                                                       8765430908
```

#Special Note

Apart from all this there are many other functionalities and cases. All of them are considered in the code and this code will not stop until exit from it so can test all the functionalities.

And all the possible type of input cases is considered and explained via comments.

#Configuration

- Entity Relationship (ER) Diagram of the Airport Managment system:-ER_Diagram.png
- Code for all the functionality:- code.py
- Operating System used: Ubuntu 16.04
- Python version: Python 2.7.12