

**MySQL Assignment**

***Hex 2551***

Create the following tables for FMS(Flight Management System):

The Passenger table contains information about passengers in the flight.

Passenger(passenger\_id,passenger\_name,passenger\_email,passenger\_dob)

|  |  |  |
| --- | --- | --- |
| Column Name | Data type & Data size | Description |
| passenger \_id | Varchar2(15) | passenger id must be unique and not null |
| passenger\_name | Varchar2(15) | passenger name should be not null |
| passenger\_email | Varchar2(15) | passenger email should be not null |
| Passenger\_dob | date | passenger dob should be not null |

Sample Data:

|  |  |  |  |
| --- | --- | --- | --- |
| passenger \_id | passenger\_name | Passenger\_email | Passenger\_dob |
| P0001 | Ram | Ram@gmail.com | 01-dec-80 |
| P0002 | Rajan | Rajan@gmail.com | 11-nov-39 |
| P0003 | Smita | Smita@gmail.com | 06-feb-88 |
| P0004 | Bhavan | Bhavan@gmail.com | 18-sep-73 |
| P0005 | Sheela | Sheela@gmail.com | 09-may-76 |
| P0006 | Nethra | Nethra@gmail.com | 08-oct-55 |

The Flight table contains information about flight.

Flight(flightid, flightsource, status)

|  |  |  |
| --- | --- | --- |
| Column Name | Data type & Data size | Description |
| flightid | Varchar2(15) | flightid must be unique and not null |
| flightsource | Varchar2(15) | flightsource should be not null |
| flightdest | Varchar2(15) | flightdest should be not null |
| flightdate | Varchar2(15) | Flightdate should be not null |
| flightseat | Varchar2(15) | Flightseat should be not null |
| ticketcost | Varchar2(15) | Ticketcost should be not null |

Sample Data:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| flightid | flightsource | flightdest | flightdate | flightseat | ticketcost |
| F0001 | Kolkatta | Hyderabad | 01-dec-12 | 100 | 2000 |
| F0002 | Chennai | Hyderabad | 02-dec-12 | 100 | 3000 |
| F0003 | Pune | Kolkatta | 02-dec-12 | 100 | 2500 |
| F0004 | Bangalore | Pune | 18-nov-12 | 100 | 2300 |
| F0005 | Hyderabad | Bangalore | 09-apr-12 | 100 | 2600 |
| F0006 | Pune | Hyderabad | 08-aug-12 | 100 | 3500 |
| F0007 | Pune | Kolkatta | 04-dec-12 | 100 | 2900 |
| F0008 | Kolkatta | Hyderabad | 06-dec-12 | 100 | 3500 |

The Booking table contains booking information of the flight.

Booking (booking\_id, flight\_id,bookdate)

|  |  |  |
| --- | --- | --- |
| Column Name | Data type & Data size | Description |
| booking\_id | Varchar(15) | booking\_id must be unique and not null |
| flight\_id | Varchar2(15) | Must be an existing flights |
| bookdate | number(15) | bookdate should be not null |

Sample Data:

|  |  |  |
| --- | --- | --- |
| booking\_id | flight\_id | bookdate |
| B0001 | F0001 | 01-dec-12 |
| B0002 | F0004 | 02-dec-12 |
| B0003 | F0005 | 03-dec-12 |
| B0004 | F0003 | 04-dec-12 |
| B0005 | F0001 | 02-dec-12 |
| B0006 | F0004 | 02-dec-12 |
| B0007 | F0003 | 02-dec-16 |

The Booking\_details table contains booking information of the passenger in the flight.

|  |  |  |
| --- | --- | --- |
| Column Name | Data type & Data size | Description |
| Booking\_id | Varchar(15) | Must be an existing booking id |
| passenger \_id | Varchar2(15) | Must be an existing passenger |

Sample Data:

|  |  |
| --- | --- |
| Booking\_id | passenger \_id |
| B0001 | P0001 |
| B0001 | P0002 |
| B0001 | P0003 |
| B0002 | P0004 |
| B0002 | P0005 |
| B0003 | P0006 |
| B0003 | P0001 |
| B0004 | P0002 |
| B0005 | P0003 |

NOTE:

You are supposed to fill in the given records in Passenger, Flight, Booking and Booking\_details tables following these rules:

1. Identify the primary key and foreign key (if applicable) in each table.
2. Take care of the constraints and the relationships among the tables.

# QUERIES

Query #1: Display passenger name who has a ‘e’ as second letter in their name.

Query #2: Display the name of the youngest passenger.

Query #3: Display the number of flights leaving Kolkata.

Query #4: Display the passenger’s name having more than 1 booking.

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