# **MySQL Assignment**

#### Vineet Kumar Verma

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

passenger _id	passenger_name	Passenger_email	Passenger_do b
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

```
mysql> select * from passenger;
  passenger_id | passenger_name
                                  passenger_email
                                                     passenger_dob
                                  Ram@gmail.com
  P0001
                                                     1980-12-01
                 Ram
                 Rajan
                                  Rajan@gmail.com
  P0002
                                                     2039-11-11
                 Smita
                                  Smita@gmail.com
  P0003
                                                     1988-02-06
  P0004
                 Bhavan
                                  Bhavn@gmail.com
                                                     1973-09-18
  P0005
                 Sheela
                                  Shela@gmail.com
                                                     1976-05-09
  P0006
                 Nethra
                                  Netha@gmail.com
                                                     2008-10-08
6 rows in set (0.00 sec)
```

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

flightid flightsource	flightdest	flightdate	flightseat	ticketcost	$\left[ \right]$
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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

```
mysql> insert into flight(flightid , flighsource , flightdest , flightdate , flightseat , ticketcost)
-> values('F0008' , 'Kolkata' , 'Hyderabad' , '12-12-06' , '100' , '3500') ;
Query OK, 1 row affected (0.46 sec)
mysql> select * from flight;
  flightid | flighsource | flightdest | flightdate | flightseat | ticketcost |
                                 Hyderabad
  F0001
                Kolkata
                                                 2012-12-01
                                                                 100
                                                                                  2000
   F0002
                                                  2012-12-02
                                                                 100
                                                                                  3000
                Chennai
                                 Hyderabad
                                                  2012-12-01
  F0003
                Banglore
                                                                                  2500
                                 Pune
                                                                 100
  F0004
                                                 2012-11-18
                                                                                  2300
                Pune
                                 Kolkata
                                                                 100
   F0005
                Hyderabad
                                 Banglore
                                                  2012-04-09
                                                                 100
                                                                                  2600
   F0006
                                 Kolkata
                                                  2012-12-04
                                                                                  2900
                Pune
                                                                 100
                                                                 100
                                                                                  2900
   F0007
                Pune
                                 Hyderabad
                                                  2012-12-04
   F0008
                Kolkata
                                                                                  3500
                                 Hyderabad
                                                 2012-12-06
                                                                 100
  rows_in set (0.00 sec)
```

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 nun	mber(15)	bookdate should be not null
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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

```
mysql> select * from booking;
  booking_id | flight_id | bookdate
                         2012-12-01
 B0001
              F0001
 B0002
              F0004
                         2012-12-02
 B0003
              F0005
                        2012-12-03
              F0003
                         2012-12-04
  B0004
 B0005
                         2012-12-02
             F0001
 B0006
                        2012-12-02
            F0004
              F0003 2016-12-02
  B0007
7 rows in set (0.00 sec)
mysql>
```

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

Booking_id	passenger _id
B0001	P0001
B0001	P0002
B0001	P0003
B0002	P0004
B0002	P0005
B0003	P0006
B0003	P0001
B0004	P0002
B0005	P0003

```
mysql> select * from booking_details
  booking_id
               passenger_id
  B0001
                P0001
  B0001
                P0002
  B0001
                P0003
  B0002
                P0004
                P0005
  B0002
  B0003
                P0006
  B0003
                P0001
  B0004
                P0002
  B0005
                P0003
9 rows in set (0.00 sec)
mysql> _
```

#### 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.

## Vineet Kumar Verma