Practical - 3

| ≡ Ву | Aiman Siddiqua |
|-------------------|----------------|
| ≡ Roll No. | 2K18/MC/008 |

AIM:

To write Selection and projection-based queries.

QUERIES:

1. List full details of all Route, Fares, Tariff, Aircraft, Flight, Passenger, Ticket, Itinerary.

```
mysql> select * from aircraft;
 AircraftType | ADescription
                                     NoOfSeats
               Advanced Turbo Prop
                Boeing 737-300 Jet
                                            300
                Airbus A330-200
 BF6
                                            105
                Boeing 747SP
 HS8
                                            250
 WM2
                Douglas DC-9-50
                                            175
 rows in set (0.10 sec)
```

Aircraft

Fares

| FlightNo | FromAirport | ToAirport | DepTime | ArrTime | AircraftType | RouteNo |
|----------|-------------|-----------|----------|----------|--------------|---------|
| BD332 | Delhi | Mumbai | 13:30:00 | 18:00:00 | DC9 | 3 |
| BD125 | Kolkata | Goa | 10:00:00 | 13:50:00 | 737 | 4 |
| BD412 | Pune | Delhi | 17:00:00 | 20:30:00 | BF6 | 6 |
| BD54 | Indore | Kolkata | 14:00:00 | 17:20:00 | DC9 | 8 |
| BD582 | Mumbai | Goa | 09:00:00 | 11:10:00 | HS8 | 7 |
| BD556 | Kolkata | Goa | 20:10:00 | 22:40:00 | BF6 | 4 |
| BD80 | Delhi | Mumbai | 15:20:00 | 19:15:00 | WM2 | 3 |

Flight

```
mysql> select * from itinerary;
 TicketNo | FlightNo | LegNo | FlightDate | FareType
 TN543
             BD332
                                2021-03-14
                                             SDS
                            2
 TN719
             BD412
                            4
                                2021-04-22
                                             BUR
                                2021-02-17
                                             SDR
 TN678
             BD125
                            1
                                             SDS
 TN596
             BD54
                            4
                                2021-03-08
                                             SDR
 TN607
             BD582
                            3
                                2021-04-18
                                             SBS
 TN590
             BD556
                            1 |
                                2021-03-30
 TN726
             BD80
                            2
                                2021-02-14
                                             BUR
 TN668
             BD332
                            2
                                2021-04-22
                                             APX
 TN623
             BD125
                            3
                                2021-02-25
                                             SBS
 TN568
             BD556
                            4
                                2021-04-22
                                             APX
 TN719
             BD582
                            1
                                2021-04-22
                                             BUR
                            3
 TN607
             BD412
                                2021-04-18
                                             SBS
12 rows in set (0.07 sec)
```

Itinerary

Route

Tariff

| id | Name | Address | TelNo |
|----|-------------------|----------------|------------|
| 28 | Aiman Siddiqua | Kidwai Nagar | 9182837465 |
| 36 | Aksht Jain | Gohana | 9175392658 |
| 23 | Ritwik Arora | Rohini | 9184628193 |
| 31 | Samriddhi Banara | Dwarka | 9492719371 |
| 39 | Anirudh Awasthi | Rajouri Garden | 9184628681 |
| 32 | Ifra Siddiqua | Kidwai Nagar | 9181736712 |
| 25 | Apoorva Srivastav | Ghaziabad | 9491746217 |
| 37 | Amogh Diwan | Gurgaon | 9138481938 |

Passenger

```
mysql> select * from ticket;
 TicketNo | TicketDate | Pid |
           2021-02-17
                             25
 TN678
           2021-03-14 |
2021-02-26 |
2021-03-08 |
  TN543
                             39
  TN623
                             36
  TN596
                             28
  TN719
             2021-04-22
                             37
  TN590
             2021-03-30
                             32
             2021-02-14
  TN726
                             23
             2021-04-18
                             31
  TN607
  TN568
             2021-03-14
                             39
  TN668
           2021-04-22
                             37
10 rows in set (0.14 sec)
```

Ticket

2. List the Names and Addresses of all Passengers.

3. List all Flight No's with tickets issued against them (Hint - Flights with issued tickets are recorded in the Itinerary table).

4. List the description of all Routes using Delhi.

5. Find the telephone numbers of all passengers with a surname of either 'Siddiqua' or 'Arora'.

6. List the names and addresses of passengers with Pid's in the range 25 to 35 inclusive

7. Find the Tickets (No's) issued on Flights BD54, BD80, BD412, BD582, or BD332

```
mysql> Select TicketNo, FlightNo
   -> from itinerary
   -> where FlightNo IN ('BD80', 'BD54', 'BD412', 'BD582', 'BD332');
 TicketNo | FlightNo |
 TN543
          BD332
          BD54
 TN596
 TN607
          BD412
          BD582
 TN607
 TN668
          BD332
 TN719
           BD412
 TN719
           BD582
 TN726
          BD80
 rows in set (0.05 sec)
```

8. List the names and addresses of passengers who either have Pid's in the range 25 to 35 inclusive or have a surname of 'Jain'.

9. List full details of all flights from Delhi or Indore where the allocated aircraft is a DC9.

```
mysql> Select
   -> from flight
   -> where (FromAirport = 'Delhi' OR FromAirport = 'Indore') AND AircraftType = 'DC9';
 FlightNo | FromAirport | ToAirport | DepTime | ArrTime | AircraftType | RouteNo |
 BD332
            Delhi
                        Mumbai
                                   13:30
                                              18:00
                                                        DC9
                                                                            3 |
                                                                            8
 BD54
                        Kolkata
                                   14:00
                                             17:20
                                                        DC9
          Indore
2 rows in set (0.61 sec)
```

10. List details of aircraft with seat capacities between 40 and 120.

11. List the FlightNo's and Aircraft Type of flights from Delhi to Mumbai with departure times after 07:00 and before 15:00.