Practical - 5

By	Aiman Siddiqua
Roll No.	2K18/MC/008

AIM:

To write more complex Aggregation function-based queries.

QUERIES:

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

```
mysql> SELECT Name, Address
    -> FROM Passenger
    -> WHERE Pid>=25 AND Pid<=35;
+-------------------+--------------+
| Name              | Address      |
+-------------------+--------------+
| Apoorva Srivastav | Ghaziabad    |
| Aiman Siddiqua    | Kidwai Nagar |
| Samriddhi Banara  | Dwarka       |
| Ifra Siddiqua     | Kidwai Nagar |
+-------------------+--------------+
4 rows in set (0.42 sec)
```

- **Find the Tickets (No's) issued on Flight Nos BD54, BD80, BD412, BD582, or BD332.**

```
mysql> SELECT FlightNo, TicketNo
    -> FROM Itinerary
    -> WHERE FlightNo IN ('BD54', 'BD80', 'BD412', 'BD582', 'BD332');
+----------+----------+
| FlightNo | TicketNo |
+----------+----------+
| BD332    | TN543    |
| BD54     | TN596    |
| BD412    | TN607    |
| BD582    | TN607    |
| BD332    | TN668    |
| BD412    | TN719    |
| BD582    | TN719    |
| BD80     | TN726    |
```

```
+----------+----------+
8 rows in set (0.14 sec)
```

- **List the Tariffs available on Route No 6 which when VAT (@17.5%) is added cost more than $100.00.**

```
mysql> SELECT FareType, Price*1.175 as VatPrice
    -> FROM Tariff
    -> WHERE RouteNo = 6 AND (Price*1.175) > 100;
+----------+----------+
| FareType | VatPrice |
+----------+----------+
| BUR      |  137.475 |
+----------+----------+
1 row in set (0.00 sec)
```

- **List the FlightNo's on the itinerary for Ticket TN607.**

```
mysql> SELECT FlightNo
    -> FROM Itinerary
    -> WHERE TicketNo = 'TN607';
+----------+
| FlightNo |
+----------+
| BD412    |
| BD582    |
+----------+
2 rows in set (0.00 sec)
```

- **Calculate the total ticket price for Ticket TN607 given the Tariff for each flight is $50.00. Assign a suitable title to your result-column.**

```
mysql> SELECT 50*(COUNT(TicketNo)) AS TotalPrice
    -> FROM Itinerary
    -> WHERE TicketNo = 'TN607';
+------------+
| TotalPrice |
+------------+
|        100 |
+------------+
1 row in set (0.00 sec)
```

- **List in descending order of FlightNo the Tickets (No's) and FlightNo's for Flights BD54, BD80, BD412, BD582, or BD332.**

```
mysql> SELECT FlightNo, TicketNo
    -> FROM Itinerary
    -> WHERE FlightNo IN ('BD54', 'BD80', 'BD412', 'BD582', 'BD332')
    -> ORDER BY FlightNo DESC;
+----------+----------+
| FlightNo | TicketNo |
+----------+----------+
| BD80     | TN726    |
| BD582    | TN607    |
| BD582    | TN719    |
| BD54     | TN596    |
| BD412    | TN719    |
| BD412    | TN607    |
| BD332    | TN543    |
| BD332    | TN668    |
+----------+----------+
8 rows in set (0.00 sec)
```

- **List, in ascending order of FlightDate within TicketNo - TicketNos, FlightNo's and FlightDates for TicketNos in the range TN600 to TN700.**

```
mysql> SELECT TicketNo, FlightNo, FlightDate
    -> FROM Itinerary
    -> WHERE TicketNo >= 'TN600' AND TicketNo <= 'TN700'
    -> ORDER BY FlightDate ASC;
+----------+----------+------------+
| TicketNo | FlightNo | FlightDate |
+----------+----------+------------+
| TN678    | BD125    | 2021-02-17 |
| TN623    | BD125    | 2021-02-25 |
| TN607    | BD412    | 2021-04-18 |
| TN607    | BD582    | 2021-04-18 |
| TN668    | BD332    | 2021-04-22 |
+----------+----------+------------+
5 rows in set (0.10 sec)
```

- **List in descending order of FlightDate within ascending TicketNo, TicketNo's, FLightNo's and their FlightDates for Ticket Nos in the range TN600 to TN700.**

```
mysql> SELECT TicketNo, FlightNo, FlightDate
    -> FROM Itinerary
    -> WHERE TicketNo >= 'TN600' AND TicketNo <= 'TN700'
    -> ORDER BY TicketNo ASC, FlightDate DESC;
+----------+----------+------------+
| TicketNo | FlightNo | FlightDate |
+----------+----------+------------+
| TN607    | BD412    | 2021-04-18 |
| TN607    | BD582    | 2021-04-18 |
| TN623    | BD125    | 2021-02-25 |
| TN668    | BD332    | 2021-04-22 |
| TN678    | BD125    | 2021-02-17 |
+----------+----------+------------+
5 rows in set (0.00 sec)
```

- **List in ascending order of FlightNo the Tickets (No's) and FlightNo's for Flights BD54, BD80, BD412, BD582, or BD332.**

```
mysql> SELECT FlightNo, TicketNo
    -> FROM Itinerary
    -> WHERE FlightNo IN ('BD54', 'BD80', 'BD412', 'BD582', 'BD332')
    -> ORDER BY FlightNo ASC;
+----------+----------+
| FlightNo | TicketNo |
+----------+----------+
| BD332    | TN543    |
| BD332    | TN668    |
| BD412    | TN719    |
| BD412    | TN607    |
| BD54     | TN596    |
| BD582    | TN607    |
| BD582    | TN719    |
| BD80     | TN726    |
+----------+----------+
8 rows in set (0.00 sec)
```

- **List full details of flights from Delhi to Mumbai in descending order by DepTime.**

```
mysql> SELECT *
    -> FROM Flight
    -> WHERE FromAirport = 'Delhi' AND ToAirport = 'Mumbai'
    -> ORDER BY DepTime DESC;
+----------+-------------+-----------+----------+----------+--------------+---------+
| FlightNo | FromAirport | ToAirport | DepTime  | ArrTime  | AircraftType | RouteNo |
+----------+-------------+-----------+----------+----------+--------------+---------+
| BD80     | Delhi       | Mumbai    | 15:20:00 | 19:15:00 | WM2          |       3 |
| BD332    | Delhi       | Mumbai    | 13:30:00 | 18:00:00 | DC9          |       3 |
+----------+-------------+-----------+----------+----------+--------------+---------+
2 rows in set (0.00 sec)
```