Practical - 7

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AIM:

To write Update/Delete-based queries.

QUERIES:

- **List for the flights on all Delhi Routes the FlightNo, aircraft used, and seating capacity. Hint: use LIKE to obtain RouteNo's and join Route and Flight tables on RouteNo.**

```
mysql> SELECT FlightNo, F.AircraftType, NoOfSeats
    -> FROM Route R, Flight F, Aircraft A
    -> WHERE R.RouteNo = F.RouteNo
    -> AND RDescription LIKE '%Delhi%'
    -> AND F.AircraftType = A.AircraftType;
+----------+--------------+-----------+
| FlightNo | AircraftType | NoOfSeats |
+----------+--------------+-----------+
| BD332    | DC9          |        43 |
| BD80     | WM2          |       175 |
| BD412    | BF6          |       105 |
+----------+--------------+-----------+
3 rows in set (0.19 sec)
```

- **Increase the price of the Standby Single (SDS) Tariff on Route 3 by $5.00.**

```
mysql> UPDATE Tariff
    -> SET price = price + 5
    -> WHERE RouteNo = 3
    -> AND FareType = 'SDS';
Query OK, 1 row affected (0.36 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

- **Increase the price of Tariffs on all Routes by 10 percent.**

```
mysql> UPDATE Tariff
    -> SET price = price + 0.1*price;
Query OK, 10 rows affected, 10 warnings (0.10 sec)
Rows matched: 10  Changed: 10  Warnings: 10
```

- **Assume that two new types of aircraft are to be brought into service by the airline-company- the Shorts-360 and Fokker-Friendship F24.**

```
mysql> INSERT INTO Aircraft Values('S60', 'Shorts-360', 36);
Query OK, 1 row affected (0.17 sec)

mysql> INSERT INTO Aircraft Values('F24', 'Fokker-Friendship', 48);
Query OK, 1 row affected (0.00 sec)
```

- **Copy Passenger records with Pids in the range 35-40 to an archive table APassenger.**

```
mysql> CREATE table APassenger
    -> SELECT *
    -> FROM Passenger
    -> WHERE Pid BETWEEN 35 AND 40;
Query OK, 3 rows affected (0.13 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM APassenger;
+-----+-----------------+----------------+------------+
| Pid | Name            | Address        | TelNo      |
+-----+-----------------+----------------+------------+
|  36 | Aksht Jain      | Gohana         | 9175392658 |
|  37 | Amogh Diwan     | Gurgaon        | 9138481938 |
|  39 | Anirudh Awasthi | Rajouri Garden | 9184628681 |
+-----+-----------------+----------------+------------+
3 rows in set (0.00 sec)
```

- **Delete rows from the Passenger table for Pid's 31 and 32.**

```
mysql> DELETE FROM Passenger
    -> WHERE Pid = 31 OR Pid = 32;
Query OK, 2 rows affected (0.10 sec)
```

```
mysql> SELECT * FROM Passenger;
+-----+------------------+----------------+------------+
| Pid | Name             | Address        | TelNo      |
+-----+------------------+----------------+------------+
|  28 | Aiman Siddiqua   | Kidwai Nagar   | 9182837465 |
|  36 | Aksht Jain       | Gohana         | 9175392658 |
|  23 | Ritwik Arora     | Rohini         | 9184628193 |
|  39 | Anirudh Awasthi  | Rajouri Garden | 9184628681 |
|  25 | Apoorva Srivastav| Ghaziabad      | 9491746217 |
|  37 | Amogh Diwan      | Gurgaon        | 9138481938 |
+-----+------------------+----------------+------------+
6 rows in set (0.00 sec)
```

- **Remove all Archived passengers records from the 'live' Passenger table.**

```
mysql> DELETE FROM Passenger
    -> WHERE Pid IN (SELECT Pid FROM APassenger);
Query OK, 3 rows affected (0.00 sec)


mysql> SELECT * FROM Passenger;
+-----+------------------+--------------+------------+
| Pid | Name             | Address      | TelNo      |
+-----+------------------+--------------+------------+
|  28 | Aiman Siddiqua   | Kidwai Nagar | 9182837465 |
|  23 | Ritwik Arora     | Rohini       | 9184628193 |
|  25 | Apoorva Srivastav| Ghaziabad    | 9491746217 |
+-----+------------------+--------------+------------+
3 rows in set (0.00 sec)
```

- **Create an exact copy of the Ticket table called as Ticket2.**

```
mysql> CREATE table Ticket2
    -> SELECT * FROM Ticket;
Query OK, 10 rows affected (0.18 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql>
mysql> SELECT * FROM Ticket;
+----------+------------+------+
| TicketNo | TicketDate | Pid  |
+----------+------------+------+
| TN678    | 2021-02-17 |   25 |
| TN543    | 2021-03-14 |   39 |
| TN623    | 2021-02-26 |   36 |
| TN596    | 2021-03-08 |   28 |
| TN719    | 2021-04-22 |   37 |
| TN590    | 2021-03-30 |   32 |
```

```
| TN726    | 2021-02-14 |   23 |
| TN607    | 2021-04-18 |   31 |
| TN568    | 2021-03-14 |   39 |
| TN668    | 2021-04-22 |   37 |
+----------+------------+------+
10 rows in set (0.00 sec)
```

- **Create the archive table APassenger2 with the same column names and data types as the Passenger table.**

```
mysql> CREATE table APassenger2
    -> (
    -> Pid int,
    -> Name Varchar(25),
    -> Address Varchar(40),
    -> TelNo Varchar(10)
    -> );
Query OK, 0 rows affected (0.11 sec)
```

- **Copy rows to the Apassenger2 table from the Passenger table having Pid in the range 20-25. Use appropriate SQL to confirm that you have copied the required rows into the APassenger2 table.**

```
mysql> INSERT INTO APassenger2
    -> SELECT *
    -> FROM Passenger
    -> WHERE Pid BETWEEN 20 AND 25;
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0


mysql> SELECT * FROM APassenger2;
+------+------------------+-----------+------------+
| Pid  | Name             | Address   | TelNo      |
+------+------------------+-----------+------------+
|   23 | Ritwik Arora     | Rohini    | 9184628193 |
|   25 | Apoorva Srivastav | Ghaziabad | 9491746217 |
+------+------------------+-----------+------------+
2 rows in set (0.00 sec)
```

- **Create using a single statement a new table called People that is an exact copy of (i.e. contains the same rows of data) the Passenger table.**

```
mysql> CREATE table People
    -> AS SELECT * FROM Passenger;
Query OK, 3 rows affected (0.12 sec)
Records: 3  Duplicates: 0  Warnings: 0


mysql> SELECT * FROM People;
+-----+------------------+--------------+------------+
| Pid | Name             | Address      | TelNo      |
+-----+------------------+--------------+------------+
|  28 | Aiman Siddiqua   | Kidwai Nagar | 9182837465 |
|  23 | Ritwik Arora     | Rohini       | 9184628193 |
|  25 | Apoorva Srivastav | Ghaziabad    | 9491746217 |
+-----+------------------+--------------+------------+
3 rows in set (0.00 sec)
```

- **Issue a COMMIT after creating the People table.**

```
mysql> Commit;
Query OK, 0 rows affected (0.01 sec)
```

- **Delete those rows (passenger records) in the People table that appear in the APassenger2 table. Use appropriate SQL to confirm that you have deleted the required records.**

```
mysql> DELETE FROM People
    -> WHERE Pid IN (SELECT Pid FROM APassenger2);
Query OK, 2 rows affected (0.00 sec)


mysql> SELECT * FROM People;
+-----+----------------+--------------+------------+
| Pid | Name           | Address      | TelNo      |
+-----+----------------+--------------+------------+
|  28 | Aiman Siddiqua | Kidwai Nagar | 9182837465 |
+-----+----------------+--------------+------------+
1 row in set (0.00 sec)
```

- **Issue a ROLLBACK. Use appropriate SQL to confirm the results.**

```
mysql> Rollback;
Query OK, 0 rows affected (0.00 sec)


mysql> SELECT * FROM People;
+-----+---------------+--------------+------------+
| Pid | Name          | Address      | TelNo      |
+-----+---------------+--------------+------------+
|  28 | Aiman Siddiqua | Kidwai Nagar | 9182837465 |
+-----+---------------+--------------+------------+
1 row in set (0.00 sec)
```

Note:- Autocommit was enabled.