Tasks 2: Select, Where, Between, AND, LIKE:

1. Write a SQL query to insert at least 10 sample records into each table.

2. Write a SQL query to list all Events.

```
mysql> select * from t_event;
+---------+----------------------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| eventID | eventName                              | eventDate  | eventTime | venueID | totalSeats | availableSeats | ticketPrice | eventType |
+---------+----------------------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| E001    | Sports Cup 2024                        | 2024-01-15 | 18:00:00  | V001    | 10000      | 0              | 1500.00     | Sports    |
| E002    | Concert Spectacular                    | 2024-02-20 | 20:30:00  | V002    | 1500       | 1200           | 2500.00     | Concert   |
| E003    | Movie Night: Blockbuster Marathon      | 2024-02-25 | 19:00:00  | V003    | 500        | 500            | 200.00      | Movie     |
| E004    | Football League Cup                    | 2024-03-10 | 16:45:00  | V004    | 20000      | 0              | 800.00      | Sports    |
| E005    | Cinematic Experience: Classics Revisited | 2024-03-12 | 18:30:00 | V005    | 800        | 700            | 300.00      | Movie     |
| E006    | Concert in the Park                    | 2024-03-18 | 21:00:00  | V013    | 3000       | 2500           | 2800.00     | Concert   |
| E007    | Basketball Showdown                    | 2024-03-05 | 17:15:00  | V007    | 12000      | 0              | 2000.00     | Sports    |
| E008    | Drama Night: Theatrical Delight        | 2024-05-22 | 19:45:00  | V008    | 600        | 450            | 100.00      | Movie     |
| E009    | Music Festival Extravaganza            | 2024-05-30 | 22:00:00  | V009    | 10000      | 8000           | 1100.00     | Concert   |
| E010    | Soccer Showpiece                       | 2024-06-05 | 15:30:00  | V010    | 25000      | 0              | 2200.00     | Sports    |
| E011    | Classic Film Marathon                  | 2024-06-12 | 20:15:00  | V011    | 700        | 600            | 1300.00     | Movie     |
| E012    | Rock Concert Blast                     | 2024-07-18 | 21:30:00  | V012    | 4000       | 3500           | 2700.00     | Concert   |
| E013    | Hockey Cup                             | 2024-08-12 | 18:45:00  | V011    | 18000      | 0              | 1500.00     | Sports    |
| E014    | Film Noir Night                        | 2024-08-30 | 19:30:00  | V014    | 900        | 800            | 1100.00     | Movie     |
| E015    | Symphony Orchestra Showcase            | 2024-09-15 | 20:00:00  | V013    | 1200       | 1000           | 2600.00     | Concert   |
| E016    | Baseball Championship                  | 2024-10-02 | 16:00:00  | V019    | 22000      | 0              | 2400.00     | Sports    |
| E017    | Science Fiction Film Festival          | 2024-10-22 | 18:00:00  | V016    | 1000       | 900            | 400.00      | Movie     |
| E018    | Jazz Night: Smooth Sounds              | 2024-11-28 | 21:15:00  | V016    | 5000       | 4500           | 2900.00     | Concert   |
| E019    | Tennis Championship                    | 2024-12-05 | 17:30:00  | V019    | 28000      | 0              | 2700.00     | Sports    |
| E020    | Zero Night Cocert                      | 2024-12-31 | 22:00:00  | V010    | 25000      | 5000           | 1500.00     | Concert   |
+---------+----------------------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
20 rows in set (0.05 sec)
```

3. Write a SQL query to select events with available tickets.

```
mysql> SELECT * FROM t_event WHERE
    -> availableSeats > 0;
+---------+----------------------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| eventID | eventName                              | eventDate  | eventTime | venueID | totalSeats | availableSeats | ticketPrice | eventType |
+---------+----------------------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| E002    | Concert Spectacular                    | 2024-02-20 | 20:30:00  | V002    | 1500       | 1200           | 2500.00     | Concert   |
| E003    | Movie Night: Blockbuster Marathon      | 2024-02-25 | 19:00:00  | V003    | 500        | 500            | 200.00      | Movie     |
| E005    | Cinematic Experience: Classics Revisited | 2024-03-12 | 18:30:00 | V005    | 800        | 700            | 300.00      | Movie     |
| E006    | Concert in the Park                    | 2024-03-18 | 21:00:00  | V013    | 3000       | 2500           | 2800.00     | Concert   |
| E008    | Drama Night: Theatrical Delight        | 2024-05-22 | 19:45:00  | V008    | 600        | 450            | 100.00      | Movie     |
| E009    | Music Festival Extravaganza            | 2024-05-30 | 22:00:00  | V009    | 10000      | 8000           | 1100.00     | Concert   |
| E011    | Classic Film Marathon                  | 2024-06-12 | 20:15:00  | V011    | 700        | 600            | 1300.00     | Movie     |
| E012    | Rock Concert Blast                     | 2024-07-18 | 21:30:00  | V012    | 4000       | 3500           | 2700.00     | Concert   |
| E014    | Film Noir Night                        | 2024-08-30 | 19:30:00  | V014    | 900        | 800            | 1100.00     | Movie     |
| E015    | Symphony Orchestra Showcase            | 2024-09-15 | 20:00:00  | V013    | 1200       | 1000           | 2600.00     | Concert   |
| E017    | Science Fiction Film Festival          | 2024-10-22 | 18:00:00  | V016    | 1000       | 900            | 400.00      | Movie     |
| E018    | Jazz Night: Smooth Sounds              | 2024-11-28 | 21:15:00  | V016    | 5000       | 4500           | 2900.00     | Concert   |
| E020    | Zero Night Cocert                      | 2024-12-31 | 22:00:00  | V010    | 25000      | 5000           | 1500.00     | Concert   |
+---------+----------------------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
13 rows in set (0.00 sec)
```

4. Write a SQL query to select events name partial match with 'cup'.

```
mysql> SELECT * FROM T_event
    -> WHERE EventName LIKE '%cup%';
+---------+---------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| eventID | eventName           | eventDate  | eventTime | venueID | totalSeats | availableSeats | ticketPrice | eventType |
+---------+---------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| E001    | Sports Cup 2024     | 2024-01-15 | 18:00:00  | V001    | 10000      | 0              | 1500.00     | Sports    |
| E004    | Football League Cup | 2024-03-10 | 16:45:00  | V004    | 20000      | 0              | 800.00      | Sports    |
| E013    | Hockey Cup          | 2024-08-12 | 18:45:00  | V011    | 18000      | 0              | 1500.00     | Sports    |
+---------+---------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
3 rows in set (0.00 sec)
```

5. Write a SQL query to select e vents with ticket price range is between 1000 to 2500.

```
mysql> SELECT * FROM T_event
    -> WHERE TicketPrice BETWEEN 1000 AND 2500;
+---------+----------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| eventID | eventName                  | eventDate  | eventTime | venueID | totalSeats | availableSeats | ticketPrice | eventType |
+---------+----------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| E001    | Sports Cup 2024            | 2024-01-15 | 18:00:00  | V001    | 10000      | 0              | 1500.00     | Sports    |
| E002    | Concert Spectacular        | 2024-02-20 | 20:30:00  | V002    | 1500       | 1200           | 2500.00     | Concert   |
| E007    | Basketball Showdown        | 2024-03-05 | 17:15:00  | V007    | 12000      | 0              | 2000.00     | Sports    |
| E009    | Music Festival Extravaganza | 2024-05-30 | 22:00:00 | V009    | 10000      | 8000           | 1100.00     | Concert   |
| E010    | Soccer Showpiece           | 2024-06-05 | 15:30:00  | V010    | 25000      | 0              | 2200.00     | Sports    |
| E011    | Classic Film Marathon      | 2024-06-12 | 20:15:00  | V011    | 700        | 600            | 1300.00     | Movie     |
| E013    | Hockey Cup                 | 2024-08-12 | 18:45:00  | V011    | 18000      | 0              | 1500.00     | Sports    |
| E014    | Film Noir Night            | 2024-08-30 | 19:30:00  | V014    | 900        | 800            | 1100.00     | Movie     |
| E016    | Baseball Championship      | 2024-10-02 | 16:00:00  | V019    | 22000      | 0              | 2400.00     | Sports    |
| E020    | Zero Night Cocert          | 2024-12-31 | 22:00:00  | V010    | 25000      | 5000           | 1500.00     | Concert   |
+---------+----------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
10 rows in set (0.00 sec)
```

6. Write a SQL query to retrieve events with dates falling within a specific range.

```
mysql> SELECT * FROM T_Event
    -> WHERE Eventdate >='2024-03-15' AND Eventdate<='2024-08-15';
+---------+----------------------------------+------------+----------+---------+------------+----------------+-------------+-----------+
| eventID | eventName                        | eventDate  | eventTime| venueID | totalSeats | availableSeats | ticketPrice | eventType |
+---------+----------------------------------+------------+----------+---------+------------+----------------+-------------+-----------+
| E006    | Concert in the Park              | 2024-03-18 | 21:00:00 | V013    | 3000       | 2500           | 2800.00     | Concert   |
| E008    | Drama Night: Theatrical Delight  | 2024-05-22 | 19:45:00 | V008    | 600        | 450            | 100.00      | Movie     |
| E009    | Music Festival Extravaganza      | 2024-05-30 | 22:00:00 | V009    | 10000      | 8000           | 1100.00     | Concert   |
| E010    | Soccer Showpiece                 | 2024-06-05 | 15:30:00 | V010    | 25000      | 0              | 2200.00     | Sports    |
| E011    | Classic Film Marathon            | 2024-06-12 | 20:15:00 | V011    | 700        | 600            | 1300.00     | Movie     |
| E012    | Rock Concert Blast               | 2024-07-18 | 21:30:00 | V012    | 4000       | 3500           | 2700.00     | Concert   |
| E013    | Hockey Cup                       | 2024-08-12 | 18:45:00 | V011    | 18000      | 0              | 1500.00     | Sports    |
+---------+----------------------------------+------------+----------+---------+------------+----------------+-------------+-----------+
7 rows in set (0.00 sec)
```

7. Write a SQL query to retrieve events with available tickets that also have "Concert" in their name.

```
mysql> SELECT * FROM T_event
    -> WHERE AvailableSeats > 0 AND EventType = 'Concert';
+---------+-------------------------------+------------+----------+---------+------------+----------------+-------------+-----------+
| eventID | eventName                     | eventDate  | eventTime| venueID | totalSeats | availableSeats | ticketPrice | eventType |
+---------+-------------------------------+------------+----------+---------+------------+----------------+-------------+-----------+
| E002    | Concert Spectacular           | 2024-02-20 | 20:30:00 | V002    | 1500       | 1200           | 2500.00     | Concert   |
| E006    | Concert in the Park           | 2024-03-18 | 21:00:00 | V013    | 3000       | 2500           | 2800.00     | Concert   |
| E009    | Music Festival Extravaganza   | 2024-05-30 | 22:00:00 | V009    | 10000      | 8000           | 1100.00     | Concert   |
| E012    | Rock Concert Blast            | 2024-07-18 | 21:30:00 | V012    | 4000       | 3500           | 2700.00     | Concert   |
| E015    | Symphony Orchestra Showcase   | 2024-09-15 | 20:00:00 | V013    | 1200       | 1000           | 2600.00     | Concert   |
| E018    | Jazz Night: Smooth Sounds     | 2024-11-28 | 21:15:00 | V016    | 5000       | 4500           | 2900.00     | Concert   |
| E020    | Zero Night Cocert             | 2024-12-31 | 22:00:00 | V010    | 25000      | 5000           | 1500.00     | Concert   |
+---------+-------------------------------+------------+----------+---------+------------+----------------+-------------+-----------+
7 rows in set (0.00 sec)
```

8. Write a SQL query to retrieve users in batches of 5, starting from the 6th user.

```
mysql> SELECT * from Customer
    -> LIMIT 5 OFFSET 5;
+------------+---------------+----------------------------+--------------+
| customerID | customerName  | email                      | phoneNumber  |
+------------+---------------+----------------------------+--------------+
| C006       | Eva Davis     | eva.davis@example.com      | 6789012345   |
| C007       | Frank Miller  | frank.miller@example.com   | 3456789012   |
| C008       | Grace Wilson  | grace.wilson@example.com   | 9012345678   |
| C009       | David Lee     | david.lee@example.com      | 4567890123   |
| C010       | Sophie Taylor | sophie.taylor@example.com  | 1230987654   |
+------------+---------------+----------------------------+--------------+
5 rows in set (0.00 sec)
```

9. Write a SQL query to retrieve bookings details contains booked no of ticket more than 4.

```
mysql> SELECT * FROM Booking
    -> WHERE NumTickets > 4;
+-----------+------------+---------+------------+------------+-------------+
| bookingID | customerID | eventID | numTickets | totalCost  | bookingDate |
+-----------+------------+---------+------------+------------+-------------+
| B005      | C008       | E007    | 6          | 12000.00   | 2024-03-01  |
| B006      | C012       | E004    | 7          | 5600.00    | 2024-03-05  |
| B009      | C003       | E010    | 5          | 11000.00   | 2024-05-25  |
| B011      | C015       | E011    | 5          | 6500.00    | 2024-06-08  |
| B015      | C010       | E016    | 8          | 19200.00   | 2024-09-10  |
| B020      | C010       | E019    | 6          | 16200.00   | 2024-12-01  |
| B021      | C007       | E020    | 5          | 7500.00    | 2024-12-15  |
+-----------+------------+---------+------------+------------+-------------+
7 rows in set (0.00 sec)
```

10. Write a SQL query to retrieve customer information whose phone number end with '000'.

```
mysql> SELECT * FROM Customer
    -> WHERE PhoneNumber LIKE '%000';
Empty set (0.00 sec)
```

11. Write a SQL query to retrieve the events in order whose seat capacity more than 15000.

```
mysql> SELECT * FROM T_Event
    -> WHERE TotalSeats > 15000
    -> ORDER BY TotalSeats;
+---------+----------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| eventID | eventName            | eventDate  | eventTime | venueID | totalSeats | availableSeats | ticketPrice | eventType |
+---------+----------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| E013    | Hockey Cup           | 2024-08-12 | 18:45:00  | V011    | 18000      | 0              | 1500.00     | Sports    |
| E004    | Football League Cup  | 2024-03-10 | 16:45:00  | V004    | 20000      | 0              | 800.00      | Sports    |
| E016    | Baseball Championship| 2024-10-02 | 16:00:00  | V019    | 22000      | 0              | 2400.00     | Sports    |
| E010    | Soccer Showpiece     | 2024-06-05 | 15:30:00  | V010    | 25000      | 0              | 2200.00     | Sports    |
| E020    | Zero Night Cocert    | 2024-12-31 | 22:00:00  | V010    | 25000      | 5000           | 1500.00     | Concert   |
| E019    | Tennis Championship  | 2024-12-05 | 17:30:00  | V019    | 28000      | 0              | 2700.00     | Sports    |
+---------+----------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
6 rows in set (0.00 sec)
```

12. Write a SQL query to select events name not start with 'x', 'y', 'z'

```
mysql> SELECT * FROM T_Event
    -> WHERE eventName NOT LIKE '[xyz]%';
+---------+----------------------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| eventID | eventName                              | eventDate  | eventTime | venueID | totalSeats | availableSeats | ticketPrice | eventType |
+---------+----------------------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
| E001    | Sports Cup 2024                        | 2024-01-15 | 18:00:00  | V001    | 10000      | 0              | 1500.00     | Sports    |
| E002    | Concert Spectacular                    | 2024-02-20 | 20:30:00  | V002    | 1500       | 1200           | 2500.00     | Concert   |
| E003    | Movie Night: Blockbuster Marathon      | 2024-02-25 | 19:00:00  | V003    | 500        | 500            | 200.00      | Movie     |
| E004    | Football League Cup                    | 2024-03-10 | 16:45:00  | V004    | 20000      | 0              | 800.00      | Sports    |
| E005    | Cinematic Experience: Classics Revisited| 2024-03-12 | 18:30:00 | V005    | 800        | 700            | 300.00      | Movie     |
| E006    | Concert in the Park                    | 2024-03-18 | 21:00:00  | V013    | 3000       | 2500           | 2800.00     | Concert   |
| E007    | Basketball Showdown                    | 2024-03-05 | 17:15:00  | V007    | 12000      | 0              | 2000.00     | Sports    |
| E008    | Drama Night: Theatrical Delight        | 2024-05-22 | 19:45:00  | V008    | 600        | 450            | 100.00      | Movie     |
| E009    | Music Festival Extravaganza            | 2024-05-30 | 22:00:00  | V009    | 10000      | 8000           | 1100.00     | Concert   |
| E010    | Soccer Showpiece                       | 2024-06-05 | 15:30:00  | V010    | 25000      | 0              | 2200.00     | Sports    |
| E011    | Classic Film Marathon                  | 2024-06-12 | 20:15:00  | V011    | 700        | 600            | 1300.00     | Movie     |
| E012    | Rock Concert Blast                     | 2024-07-18 | 21:30:00  | V012    | 4000       | 3500           | 2700.00     | Concert   |
| E013    | Hockey Cup                             | 2024-08-12 | 18:45:00  | V011    | 18000      | 0              | 1500.00     | Sports    |
| E014    | Film Noir Night                        | 2024-08-30 | 19:30:00  | V014    | 900        | 800            | 1100.00     | Movie     |
| E015    | Symphony Orchestra Showcase            | 2024-09-15 | 20:00:00  | V013    | 1200       | 1000           | 2600.00     | Concert   |
| E016    | Baseball Championship                  | 2024-10-02 | 16:00:00  | V019    | 22000      | 0              | 2400.00     | Sports    |
| E017    | Science Fiction Film Festival          | 2024-10-22 | 18:00:00  | V016    | 1000       | 900            | 400.00      | Movie     |
| E018    | Jazz Night: Smooth Sounds              | 2024-11-28 | 21:15:00  | V016    | 5000       | 4500           | 2900.00     | Concert   |
| E019    | Tennis Championship                    | 2024-12-05 | 17:30:00  | V019    | 28000      | 0              | 2700.00     | Sports    |
| E020    | Zero Night Cocert                      | 2024-12-31 | 22:00:00  | V010    | 25000      | 5000           | 1500.00     | Concert   |
+---------+----------------------------------------+------------+-----------+---------+------------+----------------+-------------+-----------+
20 rows in set (0.00 sec)
```