

UE21CS351A: DATABASE MANAGEMENT SYSTEM MINIPROJECT FINAL REPORT

PROJECT TITLE: CONCERT TICKET BOOKING SYSTEM

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PROJECT ABSTRACT

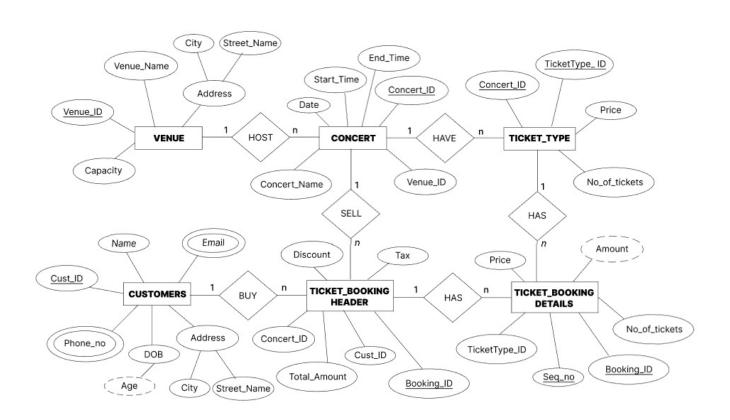
Concert Ticket Booking System is an online platform designed to streamline the process of booking tickets for various music concerts and events. The system aims to provide a user-friendly interface for customers to browse, select, and purchase tickets for their favourite concerts, while also offering event organizers and administrators a robust platform to manage events, venues, and ticket sales efficiently. The system contributes to the growth of the entertainment industry by connecting fans with their favourite artists and creating memorable concert experiences.

In the dynamic and competitive world of live events, managing revenue effectively is paramount to the success of both event organizers and venues. A revenue management system for concert ticket bookings is a sophisticated solution designed to optimize ticket pricing, enhance customer experience, and maximize revenue streams. This system leverages data analytics, pricing strategies, and customer behaviour analysis to ensure that concert organizers capitalize on every opportunity.

Thus, in today's time, where consumer behaviour and market trends are constantly evolving, the need for a sophisticated revenue management system for concert ticket bookings has never been more crucial and thus, we've implemented a Concert Ticket Booking System that incorporates revenue tracking, using tools such as MySQL and PHP for backend and frontend respectively.

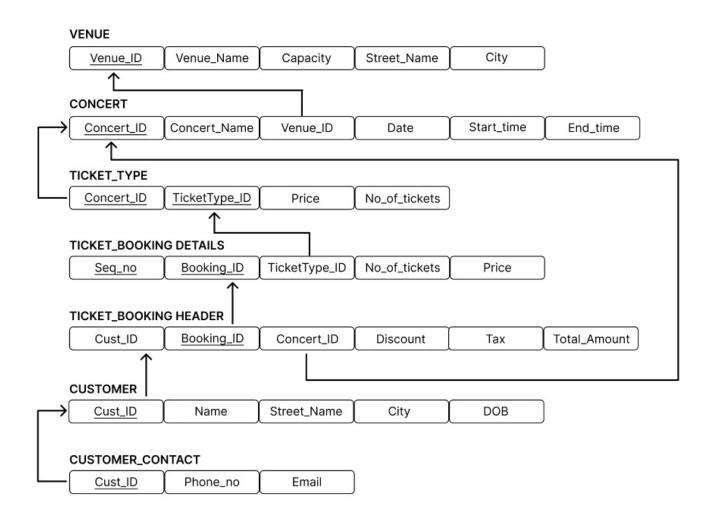


ER DIAGRAM





RELATIONAL SCHEMA





PRIMARY KEY (concert_id),

DDL SQL COMMANDS

```
1) Creating "customer" table:
CREATE TABLE customer(
     cust_id VARCHAR(20) NOT NULL,
     cust_name VARCHAR(20),
     email VARCHAR(50),
     phone_no VARCHAR(12),
    street_name VARCHAR(30),
     city VARCHAR(30),
    DOB date,
    age INT(5),
     PRIMARY KEY (cust_id)
);
  2) Creating "venues" table:
CREATE TABLE venues(
     venue_id VARCHAR(20) NOT NULL,
    venue_name VARCHAR(30),
     capacity INT,
    city VARCHAR(30),
    street_name VARCHAR(30),
     CHECK (capacity>=0),
     PRIMARY KEY (venue_id)
);
  3) Creating "concert" table:
CREATE TABLE concert (
    concert_id VARCHAR(20) NOT NULL,
    venue_id VARCHAR(20),
    concert_name VARCHAR(30),
    date_of_concert DATE,
    start_time TIME,
    end_time TIME,
```



FOREIGN KEY (venue_id) REFERENCES venues(venue_id) ON UPDATE CASCADE ON DELETE NO ACTION);

```
4) Creating "ticket_type" table:
CREATE TABLE ticket_type(
    ticketType_id VARCHAR(20) NOT NULL,
    concert_id VARCHAR(20) NOT NULL,
    price FLOAT,
    tickets_available INT,
    CHECK (price >= 0 AND tickets_available >= 0),
    PRIMARY KEY (ticketType_id, concert_id),
    FOREIGN KEY (concert_id) REFERENCES concert(concert_id) ON UPDATE
CASCADE ON DELETE NO ACTION
);
  5) Creating "ticket booking header" table:
CREATE TABLE ticket_booking_header(
     booking_id VARCHAR(20) NOT NULL,
     concert_id VARCHAR(20) NOT NULL,
     cust_id VARCHAR(20) NOT NULL,
     total_amount FLOAT DEFAULT 0,
     discount FLOAT DEFAULT 0,
     discount_amount FLOAT DEFAULT 0,
     tax FLOAT DEFAULT 0,
     tax_amount FLOAT DEFAULT 0,
     net_amount FLOAT DEFAULT 0,
     CHECK (discount>=0 AND tax>=0 AND discount_amount>=0 AND
tax_amount>=0),
     CHECK (total_amount>=0 AND net_amount>=0),
     PRIMARY KEY (booking_id),
     FOREIGN KEY (concert_id) REFERENCES concert(concert_id) ON UPDATE
CASCADE ON DELETE NO ACTION,
     FOREIGN KEY (cust_id) REFERENCES customer(cust_id) ON UPDATE CASCADE
ON DELETE NO ACTION
);
  6) Creating "ticket booking details" table:
```

```
CREATE TABLE ticket_booking_details(
    seq_no INT NOT NULL AUTO_INCREMENT,
    booking_id VARCHAR(20) NOT NULL,
    ticketType_id VARCHAR(30) NOT NULL,
```



```
tickets_bought INT,
    price FLOAT DEFAULT 0,
    amount FLOAT DEFAULT 0,
    CHECK (price>=0 AND amount>=0 AND tickets_bought>0),
    PRIMARY KEY (seq_no, booking_id),
    FOREIGN KEY (booking_id) REFERENCES ticket_booking_header(booking_id)
ON UPDATE CASCADE ON DELETE NO ACTION,
    FOREIGN KEY (ticketType_id) REFERENCES ticket_type(ticketType_id) ON
UPDATE CASCADE ON DELETE NO ACTION
);
```



INSERT COMMANDS

1) Inserting values into "customer" table:

```
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST1', 'Richa Agarwal', 'richaa@abc.com', '9218756349', 'Eastwood Road',
'Bangalore', '2001-10-19', '21');
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST2', 'Ankita Rajan', 'ankitar@abc.com', '9400275418', 'Milan Road',
'Mumbai', '1995-11-10', '28');
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST3', 'Sunita Raval', 'sunitaraval@xyz.com', '9491230333', 'Riddhipur Road',
'Guwahati', '2006-02-29','17');
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST4', 'Naina Prabhu', 'nainaprabhu@rst.com', '8103065876', 'Vikhroli Road', 'Bhubaneshwar', '2000-09-01', '23');
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST5', 'John Issac', 'johnissac@def.com', '8723197324', 'Doe Street',
'Kolkata', '1995-06-06', '28');
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST6', 'Ayushi Savant', 's.ayushi@lmn.com', '9821780772', 'Dhirajgarh Marg',
'New Delhi', '2004-03-13', '19');
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST7', 'Sakshi Dixit', 'sakshid@def.com', '8743107654', 'SV Road', 'Mysore',
'1996-01-31','27');
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST8', 'Akhila Mohan', 'akhilamohan@rst.com', '8451850673', 'Aasth Chowk',
'Lucknow', '2008-04-15','15');
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST9', 'Mona Shankar', 'mona.s@lmn.com', '6706272897', 'Sahil Nagar',
'Bangalore', '1998-08-04','25');
INSERT INTO customer (cust_id, cust_name, email, phone_no, street_name, city, DOB, age)
VALUES ('CUST10', 'Nandini Roy', 'nandiniroy@xyz.com', '7294654110', 'Doe Street',
'Chennai', '2007-05-25','16');
```

2) Inserting values into "venues" table:

```
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V1', 'Phoenix Market City', '5000', 'Whitefield', 'Bangalore');
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V2', 'Mahalaxmi Race Course', '6000', 'Keshavrao Khadye Marg', 'Mumbai');
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V3', 'Vagator Beach', '20000', 'Bardez', 'Goa');
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V4', 'Boomrang BarXsocial', '35000', 'Koramangala', 'Bangalore');
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V5', 'Bhartiya Mall', '10000', 'Thanisandra Main Road', 'Bangalore');
```



```
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V6', 'Nexus Shantiniketan', '15000', 'Whitefield', 'Bangalore');
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V7', 'Inner Circle Ground', '15000', 'Whitefield', 'Bangalore');
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V8', 'R2 Grounds', '3000', 'Bandra East', 'Mumbai');
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V9', 'T.M.C Ground', '18000', 'Hiranandani Estate,Thane West', 'Thane');
INSERT INTO venues (venue_id, venue_name, capacity, street_name, city) VALUES ('V10', 'SVP Stadium', '160000', 'Worli', 'Mumbai');
```

3) Inserting values into "concert" table:

```
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C1', 'V7', 'Papon Live in Concert', '2024-11-25', '18:00:00',
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C2', 'V8', 'Ed Sheeran: +-=/* Tour', '2024-03-16', '18:30:00',
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C3', 'V1', 'Sunburn', '2024-12-28', '18:30:00', '23:00:00');
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C4', 'V1', 'Super Sunday Bollywood Night', '2024-11-19', '17:00:00',
'21:00:00');
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C5', 'V2', 'Ronan Keating', '2024-01-18', '19:00:00', '23:00:00');
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C6', 'V7', 'Whitefield Music Festival', '2024-02-25', '18:00:00',
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C7', 'V9', 'Neeti Mohan', '2024-12-16', '17:00:00', '21:00:00');
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C8', 'V5', 'Sunburn Arena Ft. Dimitri Vegas & Like Mike-Mumbai', '2024-11-24', '18:30:00', '23:00:00');
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C9', 'V5', 'Sonu Nigam', '2024-12-02', '17:30:00', '20:30:00');
INSERT INTO concert (concert_id, venue_id, concert_name, date_of_concert, start_time,
end_time) VALUES ('C10', 'V6', 'KING', '2024-12-24', '19:30:00', '23:30:00');
```

4) Inserting values into "ticket type" table:

```
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T1', 'C1', '1000', '6000');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T2', 'C1', '1800', '5200');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T3', 'C1', '2500', '3000');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T4', 'C1', '4000', '800');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T1', 'C2', '800', '3000');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T1', 'C3', '500', '3000');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T2', 'C3', '1000', '1500');
```



```
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T3', 'C3', '1500', '500');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T1', 'C4', '800', '2500');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T2', 'C4', '1200', '2000');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T1', 'C5', '400', '400');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T2', 'C5', '1200', '3600');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T3', 'C5', '2000', '2000');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T1', 'C7', '1000', '7000');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T2', 'C7', '2800', '6000');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T3', 'C7', '3500', '3200');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T4', 'C7', '5000', '1800');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T1', 'C8', '1500', '5000');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T2', 'C8', '3200', '3200');
INSERT INTO ticket_type (ticketType_id, concert_id, price, tickets_available) VALUES
('T3', 'C8', '5000', '1800');
```

5) <u>Inserting values into "ticket booking header" table:</u>

```
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B1', 'C3', 'CUST6', 10, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B2', 'C2', 'CUST3', 20, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B3', 'C5', 'CUST8', 15, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B4', 'C1', 'CUST5', 5, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B5', 'C7', 'CUST1', 20, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B6', 'C3', 'CUST10', 15, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B7', 'C1', 'CUST2', 10, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B8', 'C5', 'CUST9', 5, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B9', 'C1', 'CUST4', 10, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B10', 'C8', 'CUST7', 15, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B11', 'C4', 'CUST1', 20, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B12', 'C8', 'CUST2', 5, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B13', 'C2', 'CUST3', 15, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B14', 'C7', 'CUST4', 20, 5);
```



INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B15', 'C4', 'CUST6', 10, 5);
INSERT INTO ticket_booking_header (booking_id, concert_id, cust_id, discount, tax) VALUES
('B16', 'C7', 'CUST8', 5, 5);

6) Inserting values into "ticket booking details" table:

```
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B1', 'T2', 2);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B1', 'T3', 1);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B2', 'T1', 4);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B3', 'T1', 3);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B3', 'T2', 2);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B4', 'T4', 1);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B4', 'T3', 2);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B4', 'T2', 3);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B5', 'T1', 3);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B5', 'T2', 2);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B6', 'T1', 6);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B7', 'T3', 2);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B7', 'T4', 1);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B7', 'T1', 4);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B7', 'T2', 3);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B8', 'T3', 3);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B9', 'T3', 3);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B9', 'T1', 5);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B10', 'T1', 3);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B10', 'T2', 2);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B10', 'T3', 1);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B11', 'T2', 4);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B12', 'T3', 3);
```



```
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B13', 'T1', 5);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B14', 'T2', 1);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B14', 'T1', 6);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B14', 'T3', 1);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B15', 'T2', 4);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B16', 'T3', 2);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B16', 'T3', 2);
INSERT INTO ticket_booking_details (booking_id, ticketType_id, tickets_bought) VALUES
('B16', 'T4', 3);
```



CRUD OPERATIONS

1) Inserting a value into "customer" table:

mysql> INSERT INTO customer VALUES ('CUST11', 'Anuha Patil', 'anuha@gmail.com', '123456789', 'B Street', 'Bangalore', '2002-11-12', 22); Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM customer;							
cust_id	cust_name	email	phone_no	street_name	city	DOB	age
CUST1 CUST10	Richa Agarwal Nandini Roy Anuha Patil	richaa@abc.com nandiniroy@xyz.com anuha@gmail.com	9218756349 7294654110	Eastwood Road Doe Street B Street	Bangalore Chennai Bangalore	2001-10-19 2007-05-25 2002-11-12	21 16 22
CUST2 CUST4	Ankita Rajan Naina Prabhu	ankitar@abc.com nainaprabhu@rst.com	9400275418 8103065876	Milan Road Vikhroli Road	Mumbai Bhubaneshwar	1995-11-10 2000-09-01	28
CUST5 CUST6 CUST7	John Issac Ayushi Savant Sakshi Dixit	johnissac@def.com s.ayushi@lmn.com sakshid@def.com	8723197324 9821780772 8743107654	Doe Street Dhirajgarh Marg SV Road	Kolkata New Delhi Mysore	1995-06-06 2004-03-13 1996-01-31	28 19 27
CUST8	Akhila Mohan Mona Shankar	akhilamohan@rst.com mona.s@lmn.com	8451850673 6706272897	Aasth Chowk Sahil Nagar	Lucknow Bangalore	2008-04-15 1998-08-04	15 25
++							

2) Reading all concerts available in the database:

concert_id	venue_id	concert_name	date_of_concert	start_time	end_time
C1	V7	Papon Live in Concert	2024-11-25	18:00:00	22:00:00
C10	V6	KING	2024-12-24	19:30:00	23:30:00
C11	V1	Aatmatrisha	2023-05-12	18:00:00	22:00:00
C2	V8	Ed Sheeran: +-=/* Tour	2024-03-16	18:30:00	23:00:00
C3	V1	Sunburn	2024-12-28	18:30:00	23:00:00
C4	V1	Super Sunday Bollywood Night	2024-11-19	17:00:00	21:00:00
C5	V2	Ronan Keating	2024-01-18	19:00:00	23:00:00
C6	V7	Whitefield Music Festival	2024-02-25	18:00:00	22:00:00
C7	V9	Neeti Mohan	2024-12-16	17:00:00	21:00:00
C9	V5	Sonu Nigam	2024-12-02	17:30:00	20:30:00



3) Updating capacity of venue V2 to 6000:

```
mysql> UPDATE venues
   -> SET capacity = '6000'
   -> WHERE venue_id = 'V2';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0
mysql> SELECT * FROM venues;
venue_id | venue_name
                               | capacity | city | street_name
          | Phoenix Market City
                                      5000 | Bangalore | Whitefield
 V10
          SVP Stadium
                                   160000 | Mumbai
                                                      Worli
          Mahalaxmi Race Course
                                    6000 | Mumbai | Keshavrao Khadye Marg
 V2
 V3
          Vagator Beach
                                    20000 Goa
                                                      Bardez
 V4
          Boomrang BarXsocial
                                    35000 | Bangalore | Koramangala
 V5
          Bhartiya Mall
                                    10000 | Bangalore | Thanisandra Main Road
                                    15000 | Bangalore |
                                                       Whitefield
 V6
          Nexus Shantiniketan
 V7
           Inner Circle Ground
                                    15000 | Bangalore | Whitefield
           R2 Grounds
                                     3000 | Mumbai
 V8
                                                        Bandra East
 V9
          T.M.C Ground
                                     18000 | Thane
                                                      Hiranandani Estate, Thane West
10 rows in set (0.00 sec)
```

4) Deleting ticket type for a concert:

```
mysql> DELETE FROM ticket_type WHERE ticketType_id = 'T5' AND concert_id = 'C11';
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT * FROM ticket_type;
 ticketType_id | concert_id | price | tickets_available
                                 1000
                                                      6000
                                                      3000
 T1
                  C2
                                  800
 T1
                  C3
                                  500
                                                      3000
 T1
                  C4
                                  800
                                                      2500
                  C5
 T1
                                 400
                                                      400
 T1
                  C7
                                 1000
 T2
                 C1
                                 1800
                                                      5200
 T2
                  C3
                                 1000
                                                      1500
                  C4
 T2
                                 1200
                                                      2000
                  C5
 T2
                                 1200
                                                      3600
 T2
                                 2800
                                                      6000
                  C7
                                 2500
 T3
                 C1
                                                      3000
 T3
                 C3
                                 1500
                                                       500
 Т3
                 C5
                                 2000
                                                      2000
 Т3
                  C7
                                 3500
                                                      3200
                                 4000
 T4
                  C1
                                                       800
                C7
                                 5000
                                                      1800
17 rows in set (0.00 sec)
```



JOIN OPERATIONS

1) Inner Join - List all concerts with their venues:

```
mysql> SELECT concert.concert_id, concert.concert_name, concert.date_of_concert, venues.venue_name
         FROM concert
         INNER JOIN venues ON concert.venue_id = venues.venue_id;
 concert_id | concert_name
                                            | date_of_concert | venue_name
              Papon Live in Concert
 C1
                                             2024-11-25
                                                               Inner Circle Ground
 C10
              KING
                                             2024-12-24
                                                               Nexus Shantiniketan
 C11
              Aatmatrisha
                                             2023-05-12
                                                                Phoenix Market City
              Ed Sheeran: +-=/* Tour
                                             2024-03-16
                                                               R2 Grounds
                                                                Phoenix Market City
 C3
              Sunburn
                                             2024-12-28
 C4
              Super Sunday Bollywood Night
                                             2024-11-19
                                                                Phoenix Market City
 C5
              Ronan Keating
                                             2024-01-18
                                                                Mahalaxmi Race Course
 C6
              Whitefield Music Festival
                                              2024-02-25
                                                                Inner Circle Ground
              Neeti Mohan
                                             2024-12-16
                                                                T.M.C Ground
 C7
 C9
              Sonu Nigam
                                             2024-12-02
                                                               Bhartiya Mall
10 rows in set (0.00 sec)
```

2) Left Join - List all concerts and their bookings, even if there are no bookings:

```
mysql> SELECT concert.concert_id, concert.concert_name, concert.date_of_concert, ticket_booking_header.booking_id
         FROM concert
         LEFT JOIN ticket_booking_header ON concert.concert_id = ticket_booking_header.concert_id;
                                            date of concert | booking id |
concert id | concert name
             | Papon Live in Concert
                                             2024-11-25
 C1
                                                                B4
              Papon Live in Concert
                                              2024-11-25
                                                                B7
 C1
              Papon Live in Concert
                                              2024-11-25
                                              2024-12-24
                                                                NULL
 C10
              KING
              Aatmatrisha
                                              2023-05-12
 C11
                                                                NULL
              Ed Sheeran: +-=/* Tour
                                              2024-03-16
                                                                NULL
              Sunburn
                                              2024-12-28
                                                                B1
 C3
C4
                                              2024-12-28
                                                                B6
              Super Sunday Bollywood Night
                                              2024-11-19
                                                                B11
 C4
              Super Sunday Bollywood Night
                                              2024-11-19
                                                                B15
              Ronan Keating
 C5
                                              2024-01-18
                                                                B3
                                              2024-01-18
 C5
              Ronan Keating
                                                                B8
 C6
              Whitefield Music Festival
                                              2024-02-25
                                                                NULL
              Neeti Mohan
                                              2024-12-16
```

3) Right Join - List all venues and concerts taking place at the venues:

	ROM venues IGHT JOIN concert ON veni	ues.venue_id =	concert.venue_id;	
venue_id	venue_name	concert_id	concert_name	date_of_concert
V7	Inner Circle Ground	C1	Papon Live in Concert	2024-11-25
V6	Nexus Shantiniketan	C10	KING	2024-12-24
V1	Phoenix Market City	C11	Aatmatrisha	2023-05-12
V8	R2 Grounds	C2	Ed Sheeran: +-=/* Tour	2024-03-16
V1	Phoenix Market City	C3	Sunburn	2024-12-28
V1	Phoenix Market City	C4	Super Sunday Bollywood Night	2024-11-19
V2	Mahalaxmi Race Course	C5	Ronan Keating	2024-01-18
V7	Inner Circle Ground	C6	Whitefield Music Festival	2024-02-25
V9	T.M.C Ground	C7	Neeti Mohan	2024-12-16
V5	Bhartiya Mall	C9	Sonu Nigam	2024-12-02



4) Self Join - Find concerts in the same venue on the same date:

mysql> SELECT a.concert_id AS concert1, a.concert_name AS name1, b.concert_id AS concert2, b.concert_name AS name2

5) Cross Join - List all possible combinations of concerts and venues:

-> FROM concert -> CROSS JOIN venues; ncert_id concert_name
Sonu Nigam
Sonu Nigam
Neeti Mohan
Whitefield Music Festival V1
Ronan Keating V1 Phoenix Market City Super Sunday Bollywood Night V1 Phoenix Market City Sunburn V1 Phoenix Market City Ed Sheeran: +-=/* Tour V1 Phoenix Market City Ed Sheeran: +-=/* Tour V1 Phoenix Market City Natmatrisha V1 Phoenix Market City KING V1 Phoenix Market City Papon Live in Concert V1 Phoenix Market City Sonu Nigam V10 SVP Stadium Neeti Mohan V10 SVP Stadium Neeti Mohan V10 SVP Stadium Ronan Keating V10 SVP Stadium Super Sunday Bollywood Night V10 SVP Stadium Sunburn V10 SVP Stadium Ed Sheeran: +-=/* Tour V10 SVP Stadium KING V10 SVP Stadium KING V10 SVP Stadium Neeti Mohan V10 SVP Stadium Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course
Super Sunday Bollywood Night V1
Sunburn V1 Phoenix Market City Ed Sheeran: +-=/* Tour V1 Phoenix Market City 1 Aatmatrisha V1 Phoenix Market City 0 KING V1 Phoenix Market City Papon Live in Concert V1 Phoenix Market City Sonu Nigam V10 SVP Stadium Neeti Mohan V10 SVP Stadium Ronan Keating V10 SVP Stadium Super Sunday Bollywood Night V10 SVP Stadium Sunburn V10 SVP Stadium Ed Sheeran: +-=/* Tour V10 SVP Stadium KING V10 SVP Stadium KING V10 SVP Stadium Sonu Nigam V10 SVP Stadium V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course
Ed Sheeran: +-=/* Tour V1 Phoenix Market City
1 Aatmatrisha V1 Phoenix Market City 0 KING V1 Phoenix Market City 1 Papon Live in Concert V1 Phoenix Market City 1 Sonu Nigam V10 SVP Stadium 1 Neeti Mohan V10 SVP Stadium 1 Whitefield Music Festival V10 SVP Stadium 1 Ronan Keating V10 SVP Stadium 1 Super Sunday Bollywood Night V10 SVP Stadium 1 Sunburn V10 SVP Stadium 1 Ed Sheeran: +-=/* Tour V10 SVP Stadium 1 Aatmatrisha V10 SVP Stadium 1 Aatmatrisha V10 SVP Stadium 1 Papon Live in Concert V10 SVP Stadium 1 Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course I Aatmatrisha V2 Mahalaxmi Race Course I Aatmatrisha V2 Mahalaxmi Race Course I
KING
Papon Live in Concert V1 Phoenix Market City Sonu Nigam V10 SVP Stadium Neeti Mohan V10 SVP Stadium Whitefield Music Festival V10 SVP Stadium Ronan Keating V10 SVP Stadium Super Sunday Bollywood Night V10 SVP Stadium Sunburn V10 SVP Stadium Ed Sheeran: +-=/* Tour V10 SVP Stadium Aatmatrisha V10 SVP Stadium KING V10 SVP Stadium Papon Live in Concert V10 SVP Stadium Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Id Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Id Sheeran: Hately V2 Mahalaxmi Race Course Id Sheeran: Hately V2 Mahalaxmi Race Course Id Sheeran: Hately V2 Mahalaxmi Race Course Id Mahalaxmi Race Course
Papon Live in Concert V1 Phoenix Market City Sonu Nigam V10 SVP Stadium Neeti Mohan V10 SVP Stadium Whitefield Music Festival V10 SVP Stadium Ronan Keating V10 SVP Stadium Super Sunday Bollywood Night V10 SVP Stadium Sunburn V10 SVP Stadium Ed Sheeran: +-=/* Tour V10 SVP Stadium Aatmatrisha V10 SVP Stadium KING V10 SVP Stadium Papon Live in Concert V10 SVP Stadium Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Id Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Id Sheeran: Hately V2 Mahalaxmi Race Course Id Sheeran: Hately V2 Mahalaxmi Race Course Id Sheeran: Hately V2 Mahalaxmi Race Course Id Mahalaxmi Race Course
Sonu Nigam
Whitefield Music Festival V10 SVP Stadium Ronan Keating V10 SVP Stadium Super Sunday Bollywood Night V10 SVP Stadium Sunburn V10 SVP Stadium Ed Sheeran: +-=/* Tour V10 SVP Stadium Aatmatrisha V10 SVP Stadium KING V10 SVP Stadium Papon Live in Concert V10 SVP Stadium Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Aatmatrisha V2 Mahalaxmi Race Course
Ronan Keating
Ronan Keating
Super Sunday Bollywood Night V10 SVP Stadium Sunburn V10 SVP Stadium Ed Sheeran: +-=/* Tour V10 SVP Stadium SVP Stadium SVP Stadium V10 SVP Stadium V10 SVP Stadium SV
Sunburn V10 SVP Stadium Ed Sheeran: +-=/* Tour V10 SVP Stadium Aatmatrisha V10 SVP Stadium KING V10 SVP Stadium Papon Live in Concert V10 SVP Stadium Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Lateral Course Lateral Course Lateral Course Lateral Course Lateral Course Lateral Course Lateral Course Lateral Course Lateral Course Lateral Course Mahalaxmi Race Course Mahalaxmi Race Course Lateral Course Mahalaxmi Race Course Lateral Course Mahalaxmi Race Course Mahala
1 Aatmatrisha V10 SVP Stadium 0 KING V10 SVP Stadium Papon Live in Concert V10 SVP Stadium Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course 1 Aatmatrisha V2 Mahalaxmi Race Course
1 Aatmatrisha V10 SVP Stadium 0 KING V10 SVP Stadium Papon Live in Concert V10 SVP Stadium Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Aatmatrisha V2 Mahalaxmi Race Course
KING
Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Aatmatrisha V2 Mahalaxmi Race Course
Sonu Nigam V2 Mahalaxmi Race Course Neeti Mohan V2 Mahalaxmi Race Course Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Aatmatrisha V2 Mahalaxmi Race Course
Neeti Mohan
Whitefield Music Festival V2 Mahalaxmi Race Course Ronan Keating V2 Mahalaxmi Race Course Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Aatmatrisha V2 Mahalaxmi Race Course
Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Aatmatrisha V2 Mahalaxmi Race Course
Super Sunday Bollywood Night V2 Mahalaxmi Race Course Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Aatmatrisha V2 Mahalaxmi Race Course
Sunburn V2 Mahalaxmi Race Course Ed Sheeran: +-=/* Tour V2 Mahalaxmi Race Course Aatmatrisha V2 Mahalaxmi Race Course
1 Aatmatrisha V2 Mahalaxmi Race Course
1 Aatmatrisha V2 Mahalaxmi Race Course
0 KING V2 Mahalaxmi Race Course
Papon Live in Concert V2 Mahalaxmi Race Course
Sonu Nigam V3 Vagator Beach
Neeti Mohan V3 Vagator Beach
Whitefield Music Festival V3 Vagator Beach
Ronan Keating V3 Vagator Beach
Super Sunday Bollywood Night V3 Vagator Beach
Sunburn V3 Vagator Beach
Ed Sheeran: +-=/* Tour V3 Vagator Beach
1 Aatmatrisha V3 Vagator Beach
0 KING V3 Vagator Beach



FUNCTIONALITY QUERIES

1) Calculating the revenue generated by concerts at a particular venue:

2) Of all the events, finding the concert with the highest generated revenue:

3) Listing all events where the sum of prices of ticket classes is 3000:



4) Finding all customers who have purchased more than 7 tickets:

```
ysql> SELECT tbh.cust_id, c.cust_name, SUM(tbd.tickets_bought) AS 'no_of_tickets'
   -> FROM ticket_booking_header tbh
   -> JOIN ticket_booking_details tbd ON tbh.booking_id = tbd.booking_id
   -> JOIN customer c ON tbh.cust_id = c.cust_id
   -> GROUP BY tbh.cust id
   -> HAVING SUM(tbd.tickets_bought) > 7;
cust_id | cust_name
                         | no_of_tickets |
                                      9
CUST1
          Richa Agarwal
                                      10
CUST2
          Ankita Rajan
CUST4
          Naina Prabhu
                                      16
CUST5
          John Issac
                                      10
          Akhila Mohan
                                      10
CUST8
rows in set (0.00 sec)
```

5) Finding all venues at which concerts are taking place in December:

6) Listing all the venues and the concerts taking place at the venues:

```
ysql> SELECT v.venue_id, v.venue_name, c.concert_id, c.concert_name, c.date_of_concert
   -> FROM venues v
   -> LEFT JOIN concert c ON v.venue_id = c.venue_id;
venue_id | venue_name
                                   | concert_id | concert_name
                                                                                | date_of_concert |
            Phoenix Market City
                                                  Aatmatrisha
                                                                                 2023-05-12
V1
                                    C11
 V1
            Phoenix Market City
                                    C3
                                                  Sunburn
                                                                                  2024-12-28
            Phoenix Market City
 V1
                                    C4
                                                  Super Sunday Bollywood Night
                                                                                  2024-11-19
            SVP Stadium
V10
                                    NULL
                                                  NUI I
                                                                                 NULL
 V2
            Mahalaxmi Race Course
                                    C5
                                                  Ronan Keating
                                                                                  2024-01-18
 V3
            Vagator Beach
                                    NULL
                                                  NULL
                                                                                 NULL
 V4
            Boomrang BarXsocial
                                    NULL
                                                  NULL
                                                                                 NULL
 V5
            Bhartiya Mall
                                    C9
                                                  Sonu Nigam
                                                                                  2024-12-02
 V6
            Nexus Shantiniketan
                                    C10
                                                  KING
                                                                                  2024-12-24
                                                                                  2024-11-25
            Inner Circle Ground
                                                  Papon Live in Concert
                                    C1
            Inner Circle Ground
                                    C6
                                                  Whitefield Music Festival
                                                                                  2024-02-25
 ۷8
            R2 Grounds
                                    C2
                                                  Ed Sheeran: +-=/* Tour
                                                                                  2024-03-16
 V9
            T.M.C Ground
                                    C7
                                                  Neeti Mohan
                                                                                  2024-12-16
l3 rows in set (0.00 sec)
```



7) Find all customers who attended a particular concert at a particular event:



PROCEDURES, TRIGGERS, FUNCTIONS

1) Procedures:

```
a) To update ticket availability:
```

```
DELIMITER //
CREATE PROCEDURE UpdateTicketAvailability(ticketTypeID VARCHAR(20), eventID VARCHAR(20), ticketSBought INT)
    UPDATE ticket_type
    SET tickets_available = tickets_available - ticketsBought
    WHERE ticketType_id = ticketTypeID AND event_id = eventID;
END //
DELIMITER;
 b) To cancel booking:
      DELIMITER //
      CREATE PROCEDURE CancelBooking(bookingID VARCHAR(20))
     BEGIN
           DECLARE ticketTypeID VARCHAR(20);
           DECLARE ticketsBought INT;
           -- Get ticket type and number of tickets bought for the booking
           SELECT ticketType_id, tickets_bought
           INTO ticketTypeID, ticketsBought
           FROM ticket_booking_details
           WHERE booking_id = bookingID;
           -- Update ticket availability
           UPDATE ticket_type
           SET tickets_available = tickets_available + ticketsBought
           WHERE ticketType_id = ticketTypeID;
           -- Delete booking details
           DELETE FROM ticket_booking_details
           WHERE booking_id = bookingID;
           -- Delete booking header
           DELETE FROM ticket_booking_header
           WHERE booking_id = bookingID;
     END //
       DELIMITER;
```



- 2) Functions:
- a) To get concert revenue:

```
DELIMITER //

CREATE FUNCTION GetEventRevenue(concert_id VARCHAR(20))

RETURNS FLOAT

BEGIN

DECLARE revenue FLOAT;

SELECT SUM(net_amount)

INTO revenue

FROM ticket_booking_header

WHERE concert_id = concert_id;

RETURN revenue;

END //

DELIMITER;
```

b) To get customer details:

```
DELIMITER //
CREATE FUNCTION GetCustomerDetails(customerID VARCHAR(20))
RETURNS VARCHAR(255)
BEGIN
    DECLARE customerInfo VARCHAR(255);

SELECT CONCAT(cust_name, ', ', email, ', ', telephone, ', ', address_line1, ', ', city, ', ', state, ', ', pincode)
    INTO customerInfo
    FROM customer
    WHERE cust_id = customerID;

RETURN customerInfo;
END //
DELIMITER;
```



3) Triggers:

a) To check validity of date:

```
DELIMITER $$

CREATE TRIGGER check_concert_date
BEFORE INSERT ON concert
FOR EACH ROW
BEGIN
    IF NEW.date_of_concert <= CURRENT_DATE() THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'Invalid concert date';
    END IF;
END //</pre>
DELIMITER;
```

b) To get price after discount and taxes:

c) To set attributes price and amount:



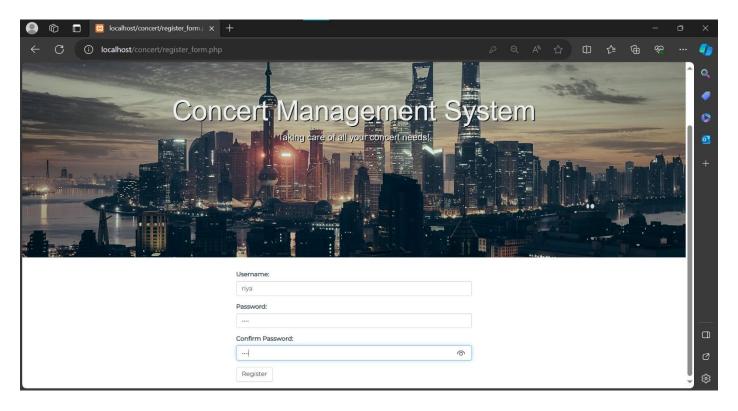
```
DELIMITER $$
CREATE TRIGGER get_price
BEFORE INSERT ON ticket_booking_details
FOR EACH ROW
) BEGIN
    DECLARE V1 VARCHAR(20);
    DECLARE V2 INT;
    SELECT event_id INTO V1 FROM ticket_booking_header WHERE booking_id = new.booking_id;
    SELECT price INTO V2 FROM ticket_type WHERE ticketType_id = new.ticketType_id AND event_id = V1;
    SET new.price=V2;
    SET new.amount = new.price * new.tickets_bought;

END;$$
DELIMITER;
```

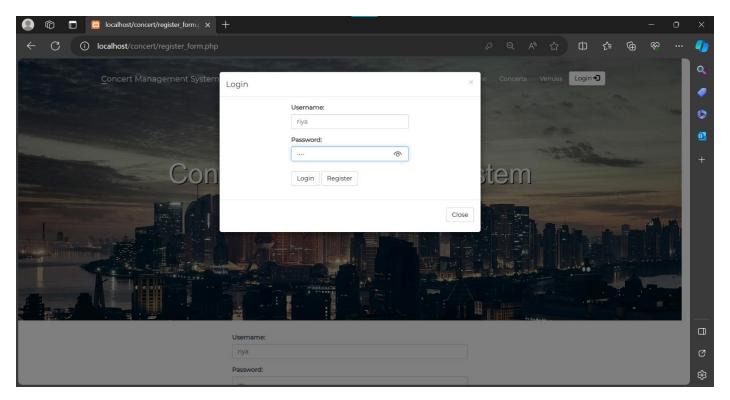


GUI / FRONTEND

1) Register Page:

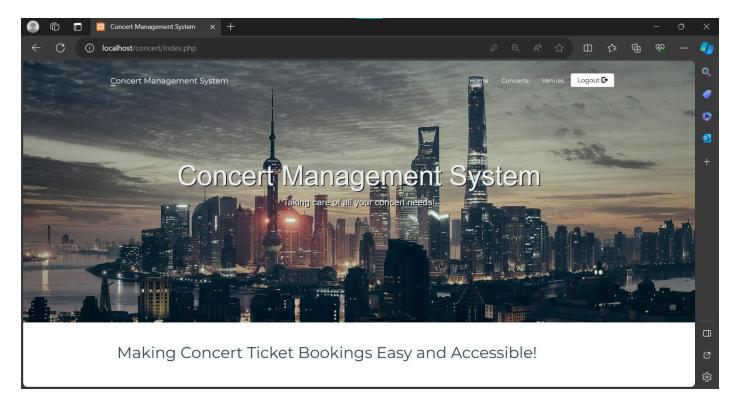


2) Login Page:

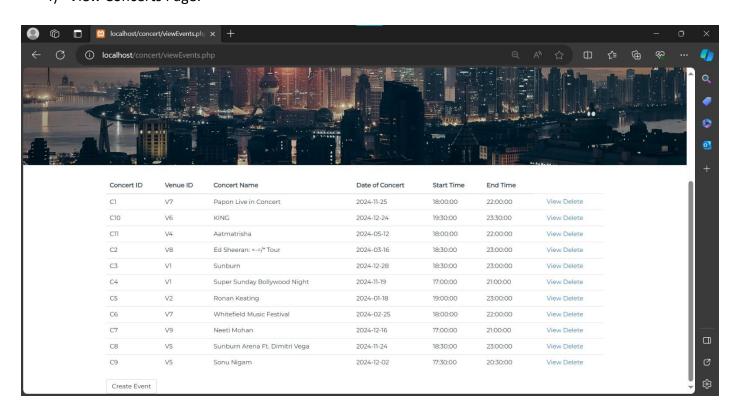




3) Home Page:

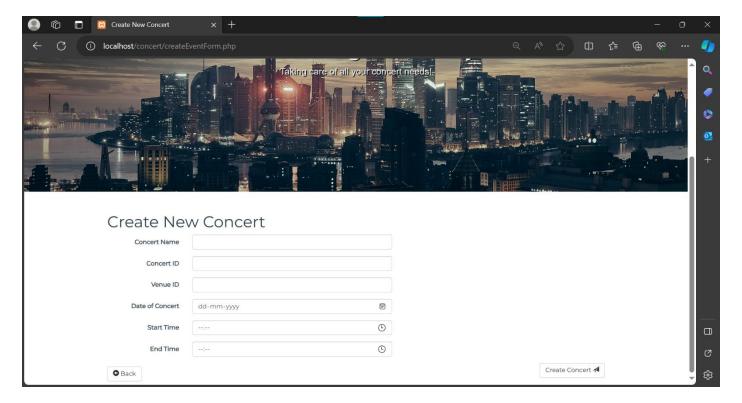


4) View Concerts Page:

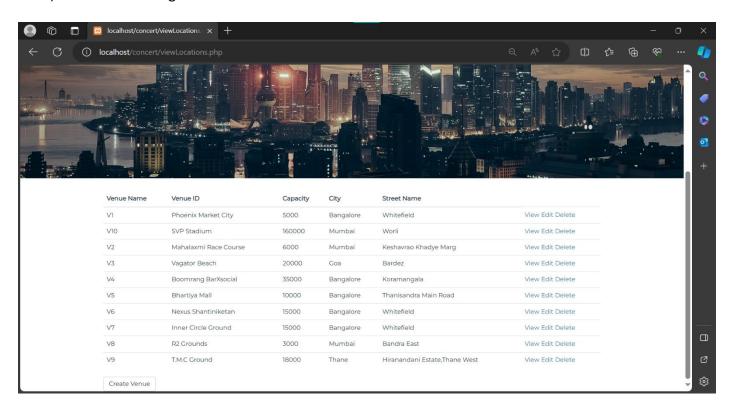




5) Create New Concert:



6) View Venues Page:





7) Create Venue Page:

	- o x
← ♂ ① localhost/concert/createLocationForm.php	Q A 🖒 🛈 🧯 庵 🎺 … 🌗
Concert Manager	ment System
Create Venue Venue Name Venue ID Capacity City	
Street Name	
○ Back	Create Location ◀
