UNIVERSITY INSTITUTE OF COMPUTING

REPORT
ON
Event Booking System

Program Name: BCA

Subject Name/Code: Database Management System (23CAT-251)

Submitted by:

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Section: 3A

Submitted to:

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ABSTRACT

Introduction:

The Event Booking System is developed to automate the booking of events like weddings, meetings, conferences, concerts, etc. It handles booking records, user management, venue scheduling, and payment processing efficiently through a structured MySQL database. This report presents a detailed overview of how DBMS and SQL are used to design such systems.

Technique:

This project uses MySQL, a relational database system that stores data in structured tables. It supports SQL queries for data manipulation. MySQL is chosen for its scalability, open-source nature, and integration capabilities with various front-end platforms.

System Configuration:

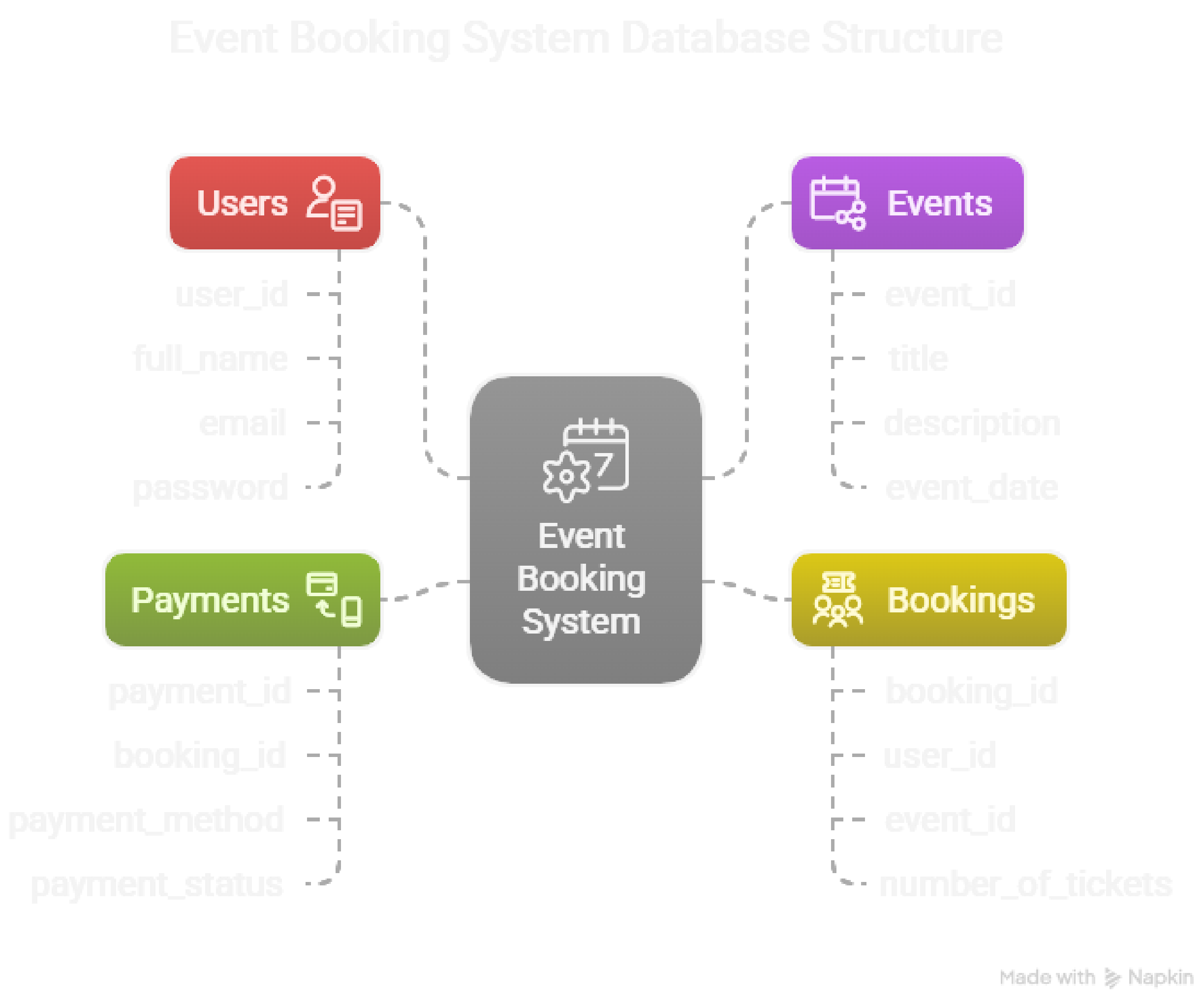
- OS: Windows 10 or Linux
- MySQL Server: Version 8.0
- Tools: MySQL Workbench or phpMyAdmin
- RAM: 4GB or higher
- Processor: Intel Core i3 or above

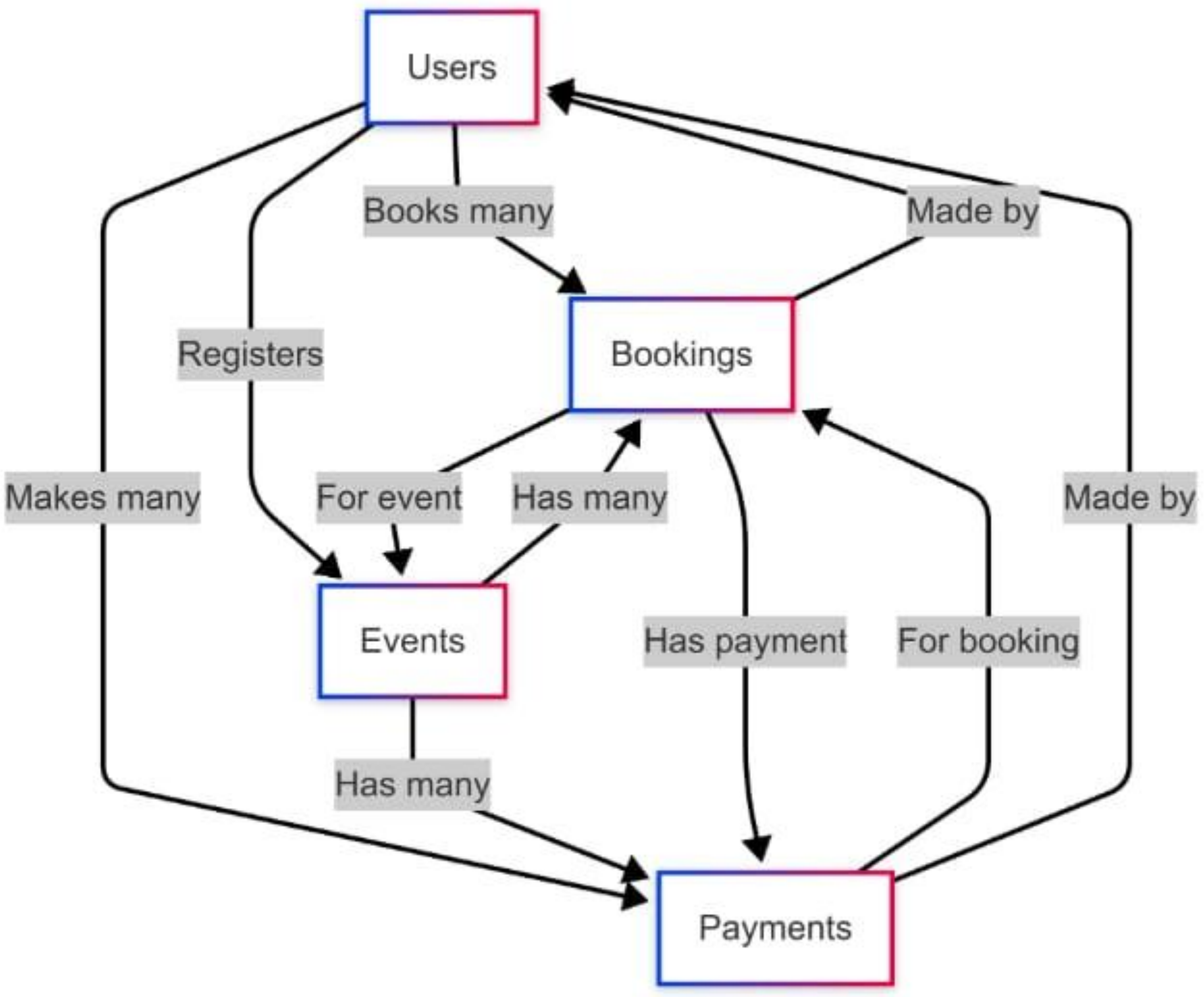
Input:

The system accepts inputs such as:
- User details (name, contact info)
- Event information (type, date, time, venue)
- Booking details
- Payment details

ER Diagram:

The ER diagram consists of entities: User, Event, Booking, and Payment. Their relationships model real-world connections like users booking events, events being held at venues, and payments linked to bookings.




Users
Books many
Made by
Registers
Bookings
Makes many
For event
Has many
Made by
Events
Has payment
For booking
Has many
Payments

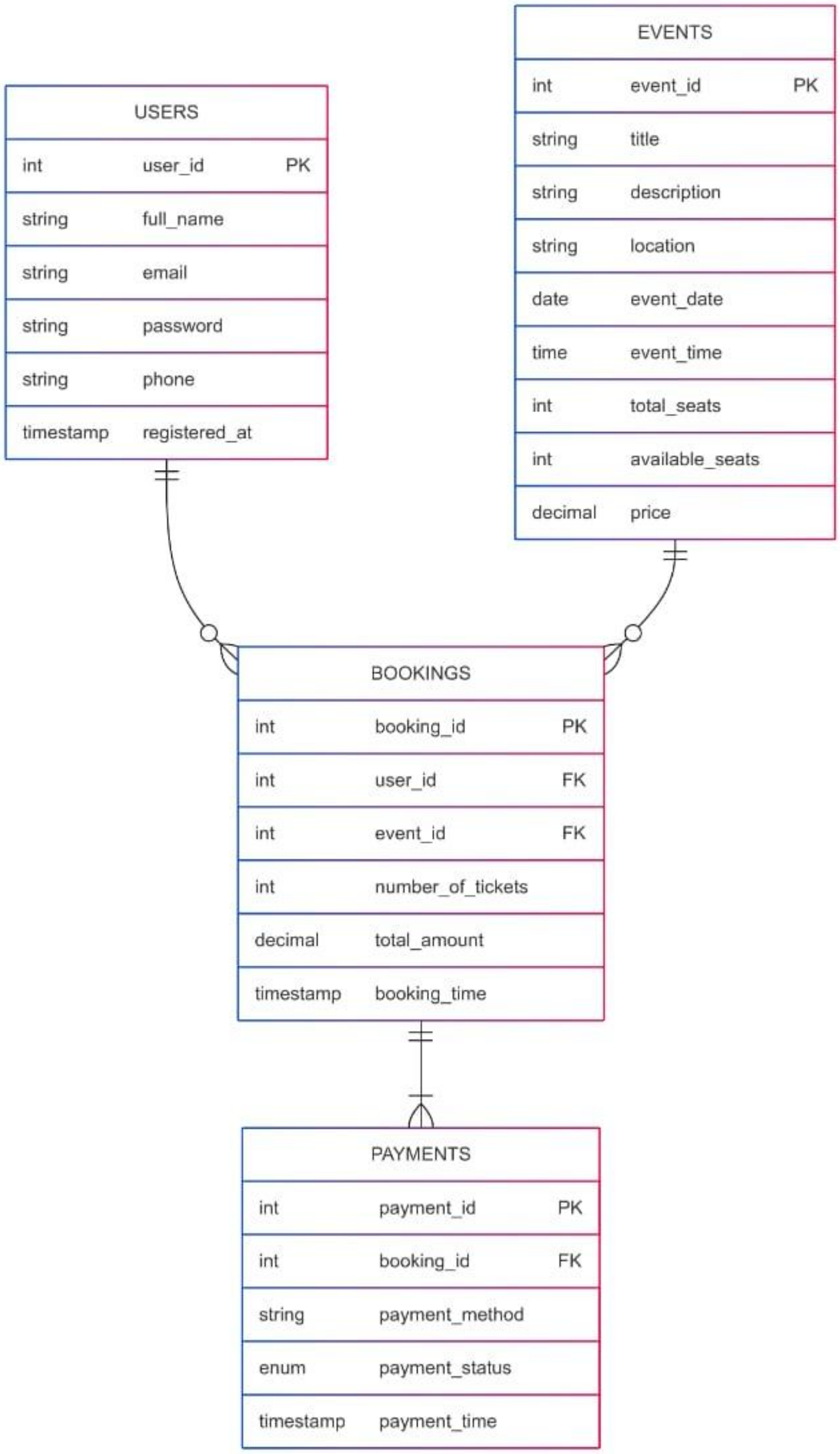

USERS
int user_id PK
string full_name
string email
string password
string phone
timestamp registered_at
EVENTS
int event_id PK
string title
string description
string location
date event_date
time event_time
int total_seats
int available_seats
decimal price
BOOKINGS
int booking_id PK
int user_id FK
int event_id FK
int number_of_tickets
decimal total_amount
timestamp booking_time
PAYMENTS
int payment_id PK
int booking_id FK
string payment_method
enum payment_status
timestamp payment_time

Table Relation:

The **Event Booking System** database is organized in a relational manner to efficiently manage users, events, bookings, and payments. The schema is designed using **foreign key constraints** to ensure data integrity and to reflect real-world relationships between entities.

1. One user can have multiple bookings

- A **user** (from the Users table) can make **multiple bookings** (in the Bookings table).
- This is achieved by linking the user_id in the Bookings table as a **foreign key** that references Users(user_id).
- Example:

sql

CopyEdit

```
SELECT user_id, COUNT(*) AS total_bookings
FROM Bookings
GROUP BY user_id;
```

This shows how many bookings each user has made.

2. Each booking is linked to one event

- Every **booking** references a specific **event** using event_id.
- The Bookings table has a **foreign key** (event_id) pointing to Events(event_id).

3. An event is held at one venue

- The **location** of the event is stored directly in the Events table under the location column, which implies that each event is associated with one venue.
- If a separate Venues table were created, Events would contain a foreign key like venue_id. However, in this schema, location handles venue representation.

4. A booking generates one payment

- The **Payments** table uses a **foreign key** (booking_id) to link each payment to a specific **booking**.
- This ensures that **each booking has exactly one associated payment**.
- Query to confirm:

sql

CopyEdit

```
SELECT booking_id, COUNT(*) AS payment_count

FROM Payments

GROUP BY booking_id
```

HAVING COUNT(*) > 1;

This query would return no results if the one-to-one rule is being enforced properly.

Tabular Format:

Users(user_id, name, email, phone)
Events(event_id, name, type, event_date, venue_id)
Bookings(booking_id, user_id, event_id, booking_date)
Payments(payment_id, booking_id, amount, status, payment_date)

Table Creation :

```
CREATE DATABASE EventBookingSystem;

USE EventBookingSystem;


CREATE TABLE Users (

   user_id INT AUTO_INCREMENT PRIMARY KEY,

   full_name VARCHAR(100) NOT NULL,

   email VARCHAR(100) UNIQUE NOT NULL,
   password VARCHAR(100) NOT NULL,
   phone VARCHAR(15),
   registered_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);


CREATE TABLE Events (
   event_id INT AUTO_INCREMENT PRIMARY KEY,
   title VARCHAR(150) NOT NULL,
   description TEXT,
   location VARCHAR(100),
   event_date DATE,
   event_time TIME,
   total_seats INT,
   available_seats INT,
   price DECIMAL(10,2)
);


CREATE TABLE Bookings (
   booking_id INT AUTO_INCREMENT PRIMARY KEY,
   user_id INT,
   event_id INT,
   number_of_tickets INT NOT NULL,
   total_amount DECIMAL(10,2),
   booking_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
   FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE
CASCADE,
   FOREIGN KEY (event_id) REFERENCES Events(event_id) ON
DELETE CASCADE
);



CREATE TABLE Payments (
   payment_id INT AUTO_INCREMENT PRIMARY KEY,
   booking_id INT,
   payment_method VARCHAR(50),
   payment_status ENUM('Pending', 'Completed', 'Failed')
DEFAULT 'Pending',
   payment_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
   FOREIGN KEY (booking_id) REFERENCES Bookings(booking_id)
ON DELETE CASCADE
);
```

SQL Queries with Output:

Includes INSERT, SELECT, JOIN, UPDATE, DELETE, and aggregation queries. Each query manages a specific task like user registration, event listing, booking confirmation, or payment summary.

```
INSERT INTO Users (full_name, email, password, phone)
VALUES
('Sai Patel', 'joseph02@jones.com', '4tFdM%uN+B', '001-190'),
('Krishna Iyer', 'xsanchez@gmail.com', 'fa#5JmR75%', '001-281'),
('Aditya Reddy', 'bruce69@kennedy.com', 'sQGhmz7q$n', '706-694'),
('Diya Nair', 'torresdavid@edwards.com', 'wXYJ1L4L&9', '881-517'),
('Ananya Sharma', 'michaelfranco@gmail.com', 'r0T$CPLQ0G', '972-643'),
('Kavya Das', 'nicholaslittle@johnson.com', 'W%47ZJ9#Dg',
'529-377'),

('Aarav Mehta', 'richard71@gmail.com', 'ZHZLxppWy2',
'408.951'),

('Ishita Bhatia', 'kevinrichardson@phillips.com',
'JbHZo*K4&!', '086-154'),

('Vivaan Verma', 'murphylisa@bryan.com', 'rhr7%T@b5A',
'595.507'),

('Meera Kapoor', 'williscrystal@hotmail.com',
'XpHLqfD8#b', '001-105'),

('Krishna Reddy', 'allison72@hotmail.com', 'Z2tHZ0DWY!',
'873.960'),

('Ananya Verma', 'adam07@wells.org', 'QAxzPv73!#', '050-
648'),

('Sai Bhatia', 'fergusonbrian@gmail.com', 'ZtxK%N71&v',
'672-787'),

('Aditya Das', 'roberto77@barnes.com', 'JW$07Ex1hj',
'640.089'),

('Diya Patel', 'jonesjessica@wells.com', 'pLpTUbJYu7', '001-
645');
```

```
INSERT INTO Events (title, description, location,
event_date, event_time, total_seats, available_seats, price)
VALUES

('Innovative systemic frame', 'Half financial order until wife
data democratic. South create ask statement guess local.',
'Jaipur', '2025-05-13', '08:39:50', 155, 155, 506.74),

('Re-engineered homogeneous hub', 'Quickly enter TV.
Protect learn floor rate within close skill. Control our
feeling write quality.', 'Hyderabad', '2025-05-04',
'18:32:34', 72, 72, 536.45),

('Team-oriented responsive forecast', 'Partner left board
respond. Oil run subject quite sort item.', 'Delhi', '2025-05-
11', '20:41:11', 92, 92, 775.11),

('Cross-platform heuristic firmware', 'Upon over forward
very tend run according.', 'Mumbai', '2025-04-28',
'16:14:06', 153, 153, 986.37),
```

('Multi-channeled fault-tolerant middleware', 'Model provide single develop civil already minute.', 'Pune', '2025-05-14', '08:17:57', 126, 126, 752.65),

('Decentralized zero administration success', 'Myself feel response morning.', 'Chennai', '2025-04-25', '17:10:49', 151, 151, 802.48),

('Managed logistical encryption', 'Already local involve notice. Support receive away feel down.', 'Ahmedabad', '2025-04-21', '13:30:17', 167, 167, 234.19),

('Enhanced system-worthy methodology', 'Term voice though performance.', 'Bangalore', '2025-05-06', '14:11:00', 143, 143, 255.73),

('Persistent executive synergy', 'Responsibility create store training myself.', 'Chandigarh', '2025-05-03', '10:41:37', 133, 133, 572.90),

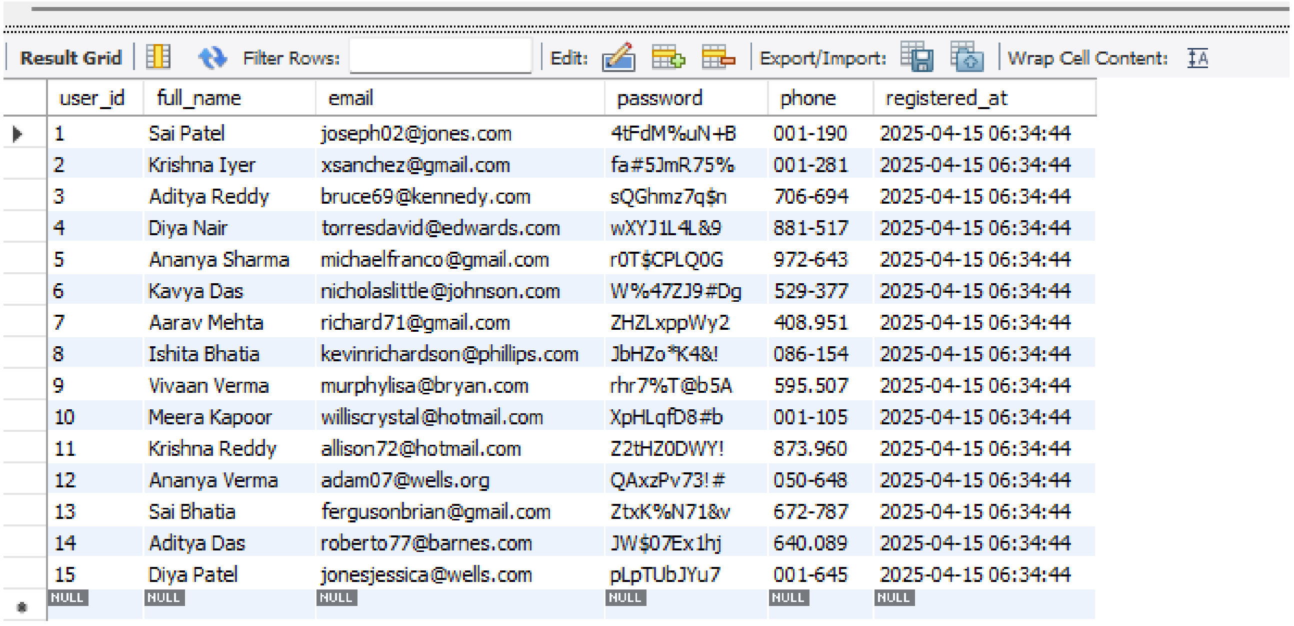
('Devolved incremental attitude', 'Performance financial receive serious big arrive.', 'Hyderabad', '2025-05-09', '12:49:16', 199, 199, 289.67),

('Distributed methodical portal', 'Protect perform message find.', 'Jaipur', '2025-04-30', '11:37:45', 87, 87, 310.40),

('User-friendly tangible project', 'Beautiful big theory technology eight.', 'Kolkata', '2025-05-02', '08:44:29', 198, 198, 684.59),

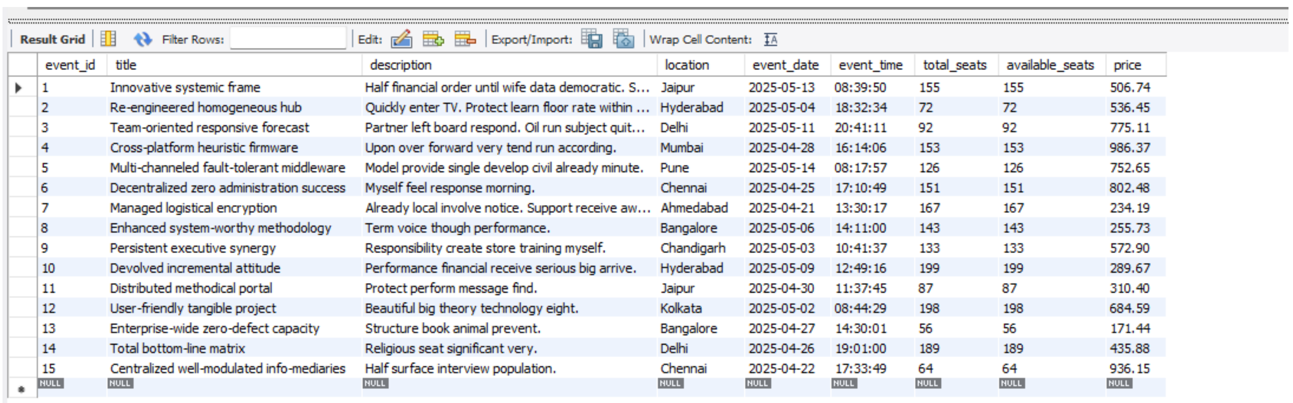
```
('Enterprise-wide zero-defect capacity', 'Structure book animal prevent.', 'Bangalore', '2025-04-27', '14:30:01', 56, 56, 171.44),

('Total bottom-line matrix', 'Religious seat significant very.', 'Delhi', '2025-04-26', '19:01:00', 189, 189, 435.88),

('Centralized well-modulated info-mediaries', 'Half surface interview population.', 'Chennai', '2025-04-22', '17:33:49', 64, 64, 936.15);



INSERT INTO Bookings (user_id, event_id, number_of_tickets, total_amount) VALUES

(11, 12, 5, 4899.25),

(1, 15, 5, 588.60),

(3, 1, 2, 1335.62),

(4, 4, 3, 2875.68),

(5, 5, 1, 214.33),

(6, 7, 4, 3214.68),

(7, 2, 2, 1138.64),

(8, 3, 3, 1208.25),
(9, 6, 1, 326.84),

(10, 9, 5, 3645.60),

(12, 10, 1, 300.50),

(13, 11, 2, 822.20),

(14, 13, 2, 1107.30),

(15, 8, 4, 2501.96),

(2, 14, 3, 2066.70);



INSERT INTO Payments (booking_id, payment_method,
payment_status) VALUES

(1, 'UPI', 'Completed'),

(2, 'Net Banking', 'Failed'),

(3, 'Credit Card', 'Completed'),

(4, 'PayPal', 'Pending'),

(5, 'UPI', 'Completed'),

(6, 'Debit Card', 'Completed'),
(7, 'UPI', 'Pending'),

(8, 'Net Banking', 'Completed'),

(9, 'Credit Card', 'Failed'),

(10, 'Debit Card', 'Completed'),

(11, 'UPI', 'Completed'),

(12, 'PayPal', 'Completed'),

(13, 'Net Banking', 'Pending'),

(14, 'Credit Card', 'Completed'),

(15, 'Debit Card', 'Failed');
```

select * from Users



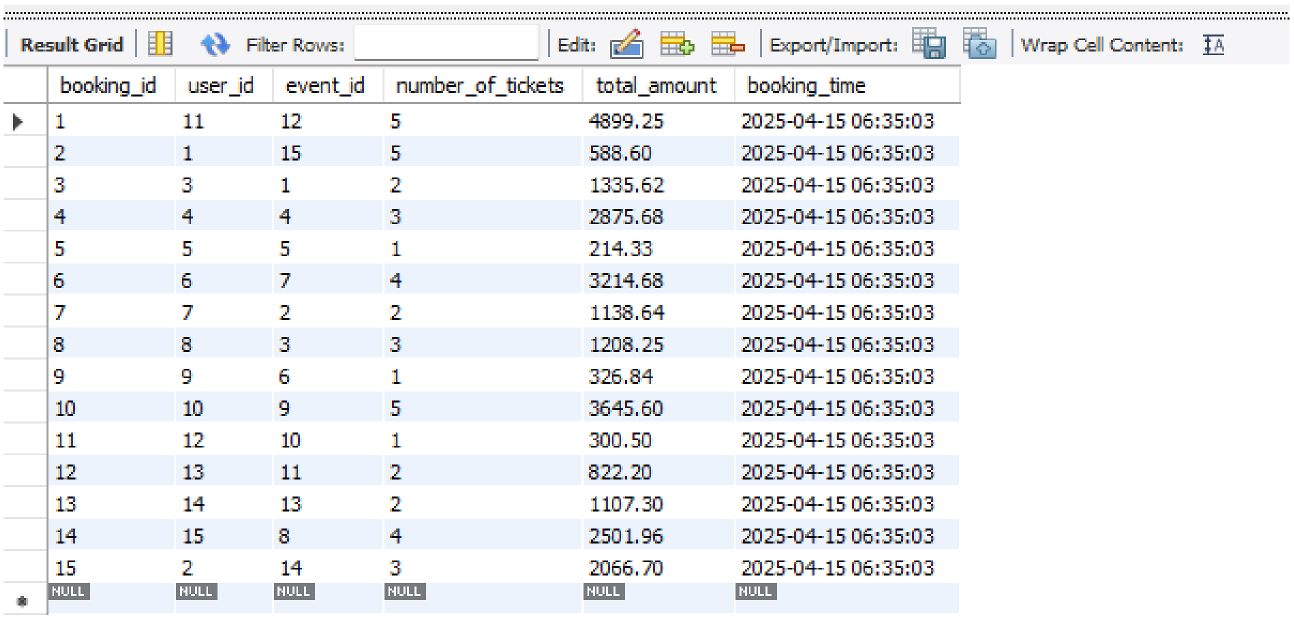
user_id	full_name	email	password	phone	registered_at
1	Sai Patel	joseph02@jones.com	4tFdM%uN+B	001-190	2025-04-15 06:34:44
2	Krishna Iyer	xsanchez@gmail.com	fa#5JmR75%	001-281	2025-04-15 06:34:44
3	Aditya Reddy	bruce69@kennedy.com	sQGhmz7q$n	706-694	2025-04-15 06:34:44
4	Diya Nair	torresdavid@edwards.com	wXYJ1L4L&9	881-517	2025-04-15 06:34:44
5	Ananya Sharma	michaelfranco@gmail.com	r0T$CPLQ0G	972-643	2025-04-15 06:34:44
6	Kavya Das	nicholaslittle@johnson.com	W%47ZJ9#Dg	529-377	2025-04-15 06:34:44
7	Aarav Mehta	richard71@gmail.com	ZHZLxppWy2	408.951	2025-04-15 06:34:44
8	Ishita Bhatia	kevinrichardson@phillips.com	JbHZo*K4&!	086-154	2025-04-15 06:34:44
9	Vivaan Verma	murphylisa@bryan.com	rhr7%T@b5A	595.507	2025-04-15 06:34:44
10	Meera Kapoor	williscrystal@hotmail.com	XpHLqfD8#b	001-105	2025-04-15 06:34:44
11	Krishna Reddy	allison72@hotmail.com	Z2tHZ0DWY!	873.960	2025-04-15 06:34:44
12	Ananya Verma	adam07@wells.org	QAxzPv73!#	050-648	2025-04-15 06:34:44
13	Sai Bhatia	fergusonbrian@gmail.com	ZtxK%N71&v	672-787	2025-04-15 06:34:44
14	Aditya Das	roberto77@barnes.com	JW$07Ex1hj	640.089	2025-04-15 06:34:44
15	Diya Patel	jonesjessica@wells.com	pLpTUbJYu7	001-645	2025-04-15 06:34:44
NULL	NULL	NULL	NULL	NULL	NULL

select * from Events;



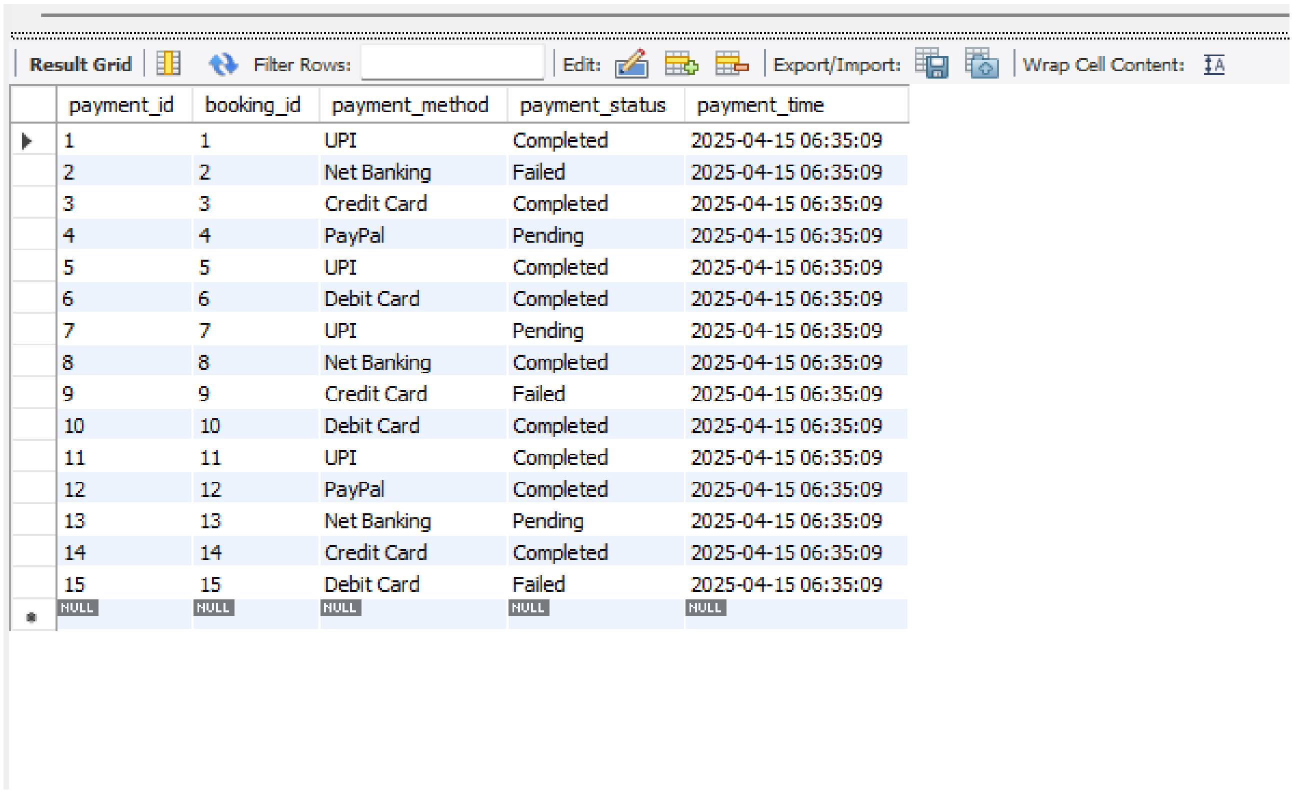
event_id	title	description	location	event_date	event_time	total_seats	available_seats	price
1	Innovative systemic frame	Half financial order until wife data democratic. S...	Jaipur	2025-05-13	08:39:50	155	155	506.74
2	Re-engineered homogeneous hub	Quickly enter TV. Protect learn floor rate within ...	Hyderabad	2025-05-04	18:32:34	72	72	536.45
3	Team-oriented responsive forecast	Partner left board respond. Oil run subject quit...	Delhi	2025-05-11	20:41:11	92	92	775.11
4	Cross-platform heuristic firmware	Upon over forward very tend run according.	Mumbai	2025-04-28	16:14:06	153	153	986.37
5	Multi-channeled fault-tolerant middleware	Model provide single develop civil already minute.	Pune	2025-05-14	08:17:57	126	126	752.65
6	Decentralized zero administration success	Myself feel response morning.	Chennai	2025-04-25	17:10:49	151	151	802.48
7	Managed logistical encryption	Already local involve notice. Support receive aw...	Ahmedabad	2025-04-21	13:30:17	167	167	234.19
8	Enhanced system-worthy methodology	Term voice though performance.	Bangalore	2025-05-06	14:11:00	143	143	255.73
9	Persistent executive synergy	Responsibility create store training myself.	Chandigarh	2025-05-03	10:41:37	133	133	572.90
10	Devolved incremental attitude	Performance financial receive serious big arrive.	Hyderabad	2025-05-09	12:49:16	199	199	289.67
11	Distributed methodical portal	Protect perform message find.	Jaipur	2025-04-30	11:37:45	87	87	310.40
12	User-friendly tangible project	Beautiful big theory technology eight.	Kolkata	2025-05-02	08:44:29	198	198	684.59
13	Enterprise-wide zero-defect capacity	Structure book animal prevent.	Bangalore	2025-04-27	14:30:01	56	56	171.44
14	Total bottom-line matrix	Religious seat significant very.	Delhi	2025-04-26	19:01:00	189	189	435.88
15	Centralized well-modulated info-mediaries	Half surface interview population.	Chennai	2025-04-22	17:33:49	64	64	936.15
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

select * from Bookings;



booking_id	user_id	event_id	number_of_tickets	total_amount	booking_time
1	11	12	5	4899.25	2025-04-15 06:35:03
2	1	15	5	588.60	2025-04-15 06:35:03
3	3	1	2	1335.62	2025-04-15 06:35:03
4	4	4	3	2875.68	2025-04-15 06:35:03
5	5	5	1	214.33	2025-04-15 06:35:03
6	6	7	4	3214.68	2025-04-15 06:35:03
7	7	2	2	1138.64	2025-04-15 06:35:03
8	8	3	3	1208.25	2025-04-15 06:35:03
9	9	6	1	326.84	2025-04-15 06:35:03
10	10	9	5	3645.60	2025-04-15 06:35:03
11	12	10	1	300.50	2025-04-15 06:35:03
12	13	11	2	822.20	2025-04-15 06:35:03
13	14	13	2	1107.30	2025-04-15 06:35:03
14	15	8	4	2501.96	2025-04-15 06:35:03
15	2	14	3	2066.70	2025-04-15 06:35:03
NULL	NULL	NULL	NULL	NULL	NULL

select * from Payments;

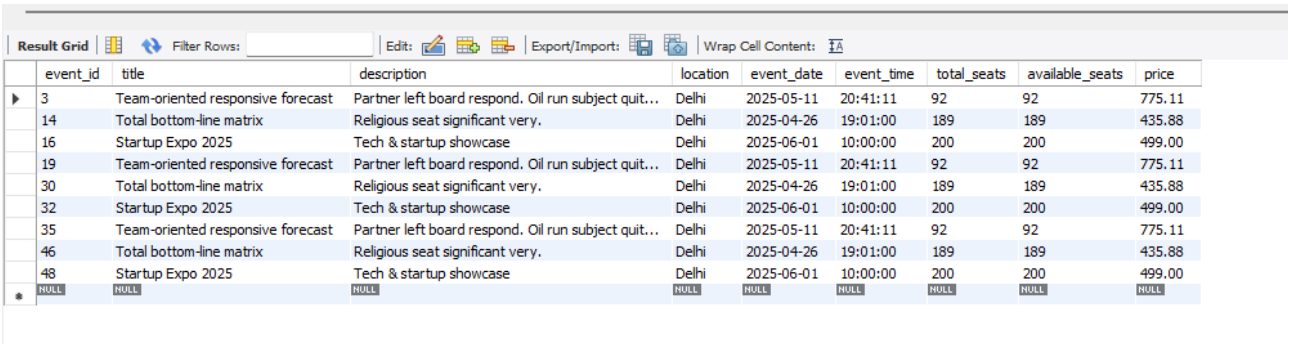


payment_id	booking_id	payment_method	payment_status	payment_time
1	1	UPI	Completed	2025-04-15 06:35:09
2	2	Net Banking	Failed	2025-04-15 06:35:09
3	3	Credit Card	Completed	2025-04-15 06:35:09
4	4	PayPal	Pending	2025-04-15 06:35:09
5	5	UPI	Completed	2025-04-15 06:35:09
6	6	Debit Card	Completed	2025-04-15 06:35:09
7	7	UPI	Pending	2025-04-15 06:35:09
8	8	Net Banking	Completed	2025-04-15 06:35:09
9	9	Credit Card	Failed	2025-04-15 06:35:09
10	10	Debit Card	Completed	2025-04-15 06:35:09
11	11	UPI	Completed	2025-04-15 06:35:09
12	12	PayPal	Completed	2025-04-15 06:35:09
13	13	Net Banking	Pending	2025-04-15 06:35:09
14	14	Credit Card	Completed	2025-04-15 06:35:09
15	15	Debit Card	Failed	2025-04-15 06:35:09
NULL	NULL	NULL	NULL	NULL

Selections:

1.Events in Delhi

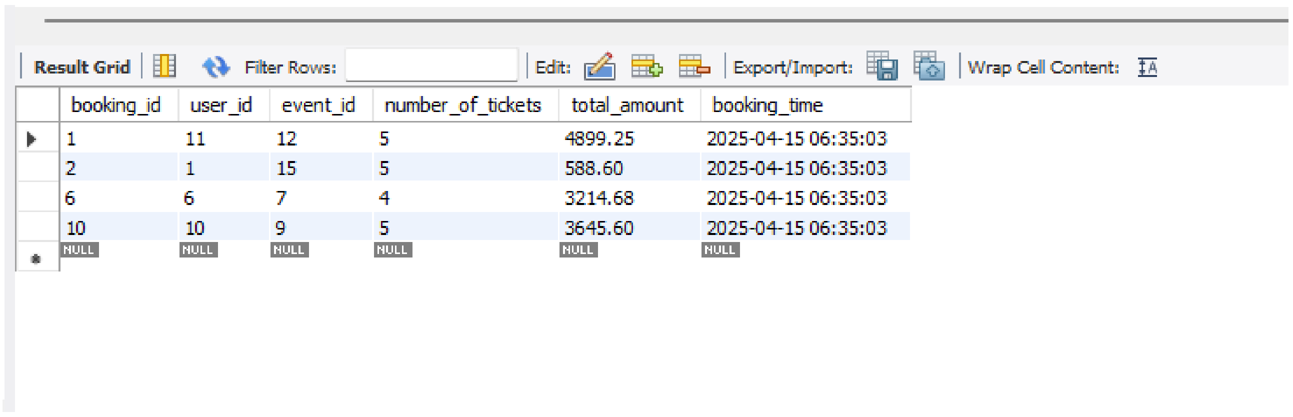
SELECT * FROM Events WHERE location = 'Delhi';



event_id	title	description	location	event_date	event_time	total_seats	available_seats	price
3	Team-oriented responsive forecast	Partner left board respond. Oil run subject quit...	Delhi	2025-05-11	20:41:11	92	92	775.11
14	Total bottom-line matrix	Religious seat significant very.	Delhi	2025-04-26	19:01:00	189	189	435.88
16	Startup Expo 2025	Tech & startup showcase	Delhi	2025-06-01	10:00:00	200	200	499.00
19	Team-oriented responsive forecast	Partner left board respond. Oil run subject quit...	Delhi	2025-05-11	20:41:11	92	92	775.11
30	Total bottom-line matrix	Religious seat significant very.	Delhi	2025-04-26	19:01:00	189	189	435.88
32	Startup Expo 2025	Tech & startup showcase	Delhi	2025-06-01	10:00:00	200	200	499.00
35	Team-oriented responsive forecast	Partner left board respond. Oil run subject quit...	Delhi	2025-05-11	20:41:11	92	92	775.11
46	Total bottom-line matrix	Religious seat significant very.	Delhi	2025-04-26	19:01:00	189	189	435.88
48	Startup Expo 2025	Tech & startup showcase	Delhi	2025-06-01	10:00:00	200	200	499.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

2.Bookings with more than 3 tickets

SELECT * FROM Bookings WHERE number_of_tickets > 3;



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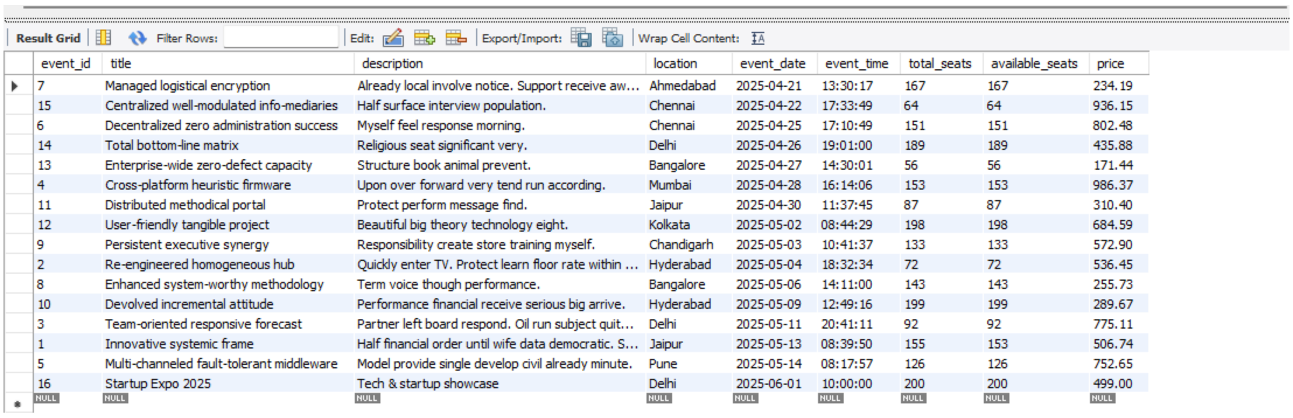
1	11	12	5	4899.25	2025-04-15 06:35:03
2	1	15	5	588.60	2025-04-15 06:35:03
6	6	7	4	3214.68	2025-04-15 06:35:03
10	10	9	5	3645.60	2025-04-15 06:35:03
NULL	NULL	NULL	NULL	NULL	NULL

3.Upcoming Events (sorted by date)

SELECT * FROM Events ORDER BY event_date ASC;


Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

event_id	title	description	location	event_date	event_time	total_seats	available_seats	price
7	Managed logistical encryption	Already local involve notice. Support receive aw...	Ahmedabad	2025-04-21	13:30:17	167	167	234.19
15	Centralized well-modulated info-mediaries	Half surface interview population.	Chennai	2025-04-22	17:33:49	64	64	936.15
6	Decentralized zero administration success	Myself feel response morning.	Chennai	2025-04-25	17:10:49	151	151	802.48
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11	Distributed methodical portal	Protect perform message find.	Jaipur	2025-04-30	11:37:45	87	87	310.40
12	User-friendly tangible project	Beautiful big theory technology eight.	Kolkata	2025-05-02	08:44:29	198	198	684.59
9	Persistent executive synergy	Responsibility create store training myself.	Chandigarh	2025-05-03	10:41:37	133	133	572.90
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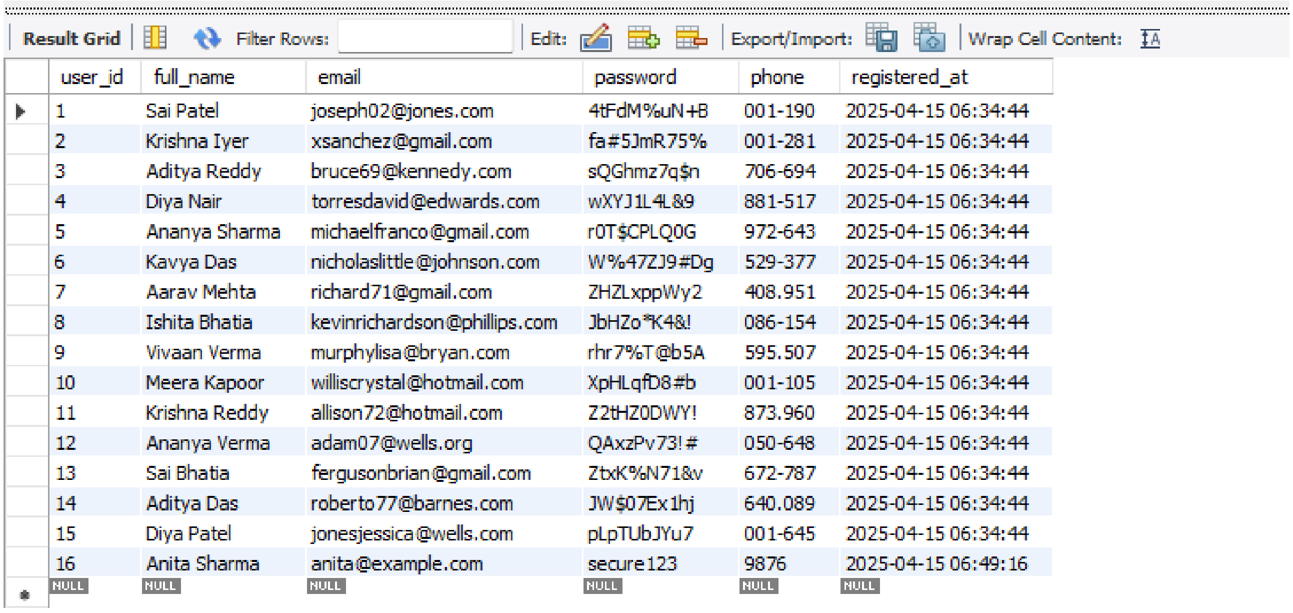
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

4. Insertions

```
INSERT INTO Users (full_name, email, password, phone)
VALUES ('Anita Sharma', 'anita@example.com', 'secure123', '9876');
select * from Users;
```

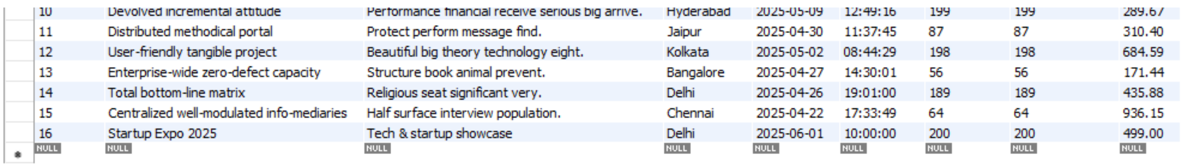


```
user_id  full_name       email                          password      phone     registered_at
1        Sai Patel       joseph02@jones.com             4tFdM%uN+B    001-190   2025-04-15 06:34:44
2        Krishna Iyer    xsanchez@gmail.com             fa#5JmR75%    001-281   2025-04-15 06:34:44
3        Aditya Reddy    bruce69@kennedy.com            sQGhmz7q$n    706-694   2025-04-15 06:34:44
4        Diya Nair       torresdavid@edwards.com        wXYJ1L4L&9    881-517   2025-04-15 06:34:44
5        Ananya Sharma   michaelfranco@gmail.com        r0T$CPLQ0G    972-643   2025-04-15 06:34:44
6        Kavya Das       nicholaslittle@johnson.com     W%47ZJ9#Dg    529-377   2025-04-15 06:34:44
7        Aarav Mehta     richard71@gmail.com            ZHZLxppWy2    408.951   2025-04-15 06:34:44
8        Ishita Bhatia   kevinrichardson@phillips.com   JbHZo*K4&!    086-154   2025-04-15 06:34:44
9        Vivaan Verma    murphylisa@bryan.com           rhr7%T@b5A    595.507   2025-04-15 06:34:44
10       Meera Kapoor    williscrystal@hotmail.com      XpHLqfD8#b    001-105   2025-04-15 06:34:44
11       Krishna Reddy   allison72@hotmail.com          Z2tHZ0DWY!    873.960   2025-04-15 06:34:44
12       Ananya Verma    adam07@wells.org               QAxzPv73!#    050-648   2025-04-15 06:34:44
13       Sai Bhatia      fergusonbrian@gmail.com        ZtxK%N71&v    672-787   2025-04-15 06:34:44
14       Aditya Das      roberto77@barnes.com           JW$07Ex1hj    640.089   2025-04-15 06:34:44
15       Diya Patel      jonesjessica@wells.com         pLpTUbJYu7    001-645   2025-04-15 06:34:44
16       Anita Sharma    anita@example.com              secure123     9876      2025-04-15 06:49:16
NULL     NULL            NULL                           NULL          NULL      NULL
```

5. **Add new event**

```
INSERT INTO Events (title, description, location, event_date, event_time, total_seats, available_seats, price)
VALUES ('Startup Expo 2025', 'Tech & startup showcase', 'Delhi', '2025-06-01', '10:00:00', 200, 200, 499.00);
```

```
select * from Events;
```

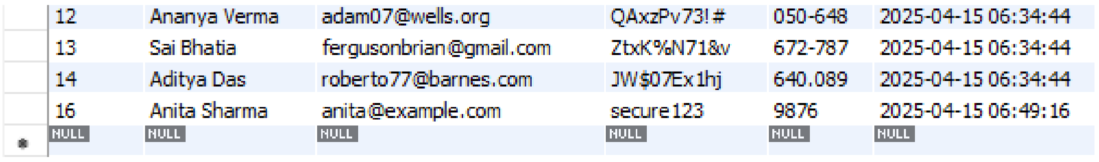


10	Devolved incremental attitude	Performance financial receive serious big arrive.	Hyderabad	2025-05-09	12:49:16	199	199	289.67
11	Distributed methodical portal	Protect perform message find.	Jaipur	2025-04-30	11:37:45	87	87	310.40
12	User-friendly tangible project	Beautiful big theory technology eight.	Kolkata	2025-05-02	08:44:29	198	198	684.59
13	Enterprise-wide zero-defect capacity	Structure book animal prevent.	Bangalore	2025-04-27	14:30:01	56	56	171.44
14	Total bottom-line matrix	Religious seat significant very.	Delhi	2025-04-26	19:01:00	189	189	435.88
15	Centralized well-modulated info-mediaries	Half surface interview population.	Chennai	2025-04-22	17:33:49	64	64	936.15
16	Startup Expo 2025	Tech & startup showcase	Delhi	2025-06-01	10:00:00	200	200	499.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

6. Deletions:

DELETE FROM Users WHERE user_id = 15;

select * from Users;



12	Ananya Verma	adam07@wells.org	QAxzPv73!#	050-648	2025-04-15 06:34:44
13	Sai Bhatia	fergusonbrian@gmail.com	ZtxK%N71&v	672-787	2025-04-15 06:34:44
14	Aditya Das	roberto77@barnes.com	JW$07Ex1hj	640.089	2025-04-15 06:34:44
16	Anita Sharma	anita@example.com	secure123	9876	2025-04-15 06:49:16
NULL	NULL	NULL	NULL	NULL	NULL

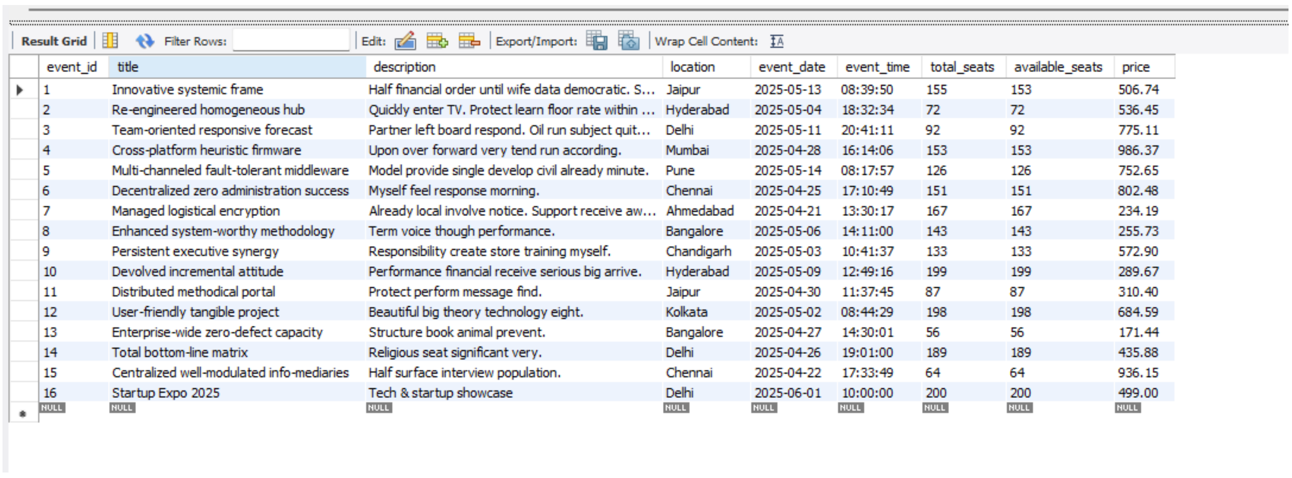
7. **Updation:**

UPDATE Events

SET available_seats = available_seats - 2

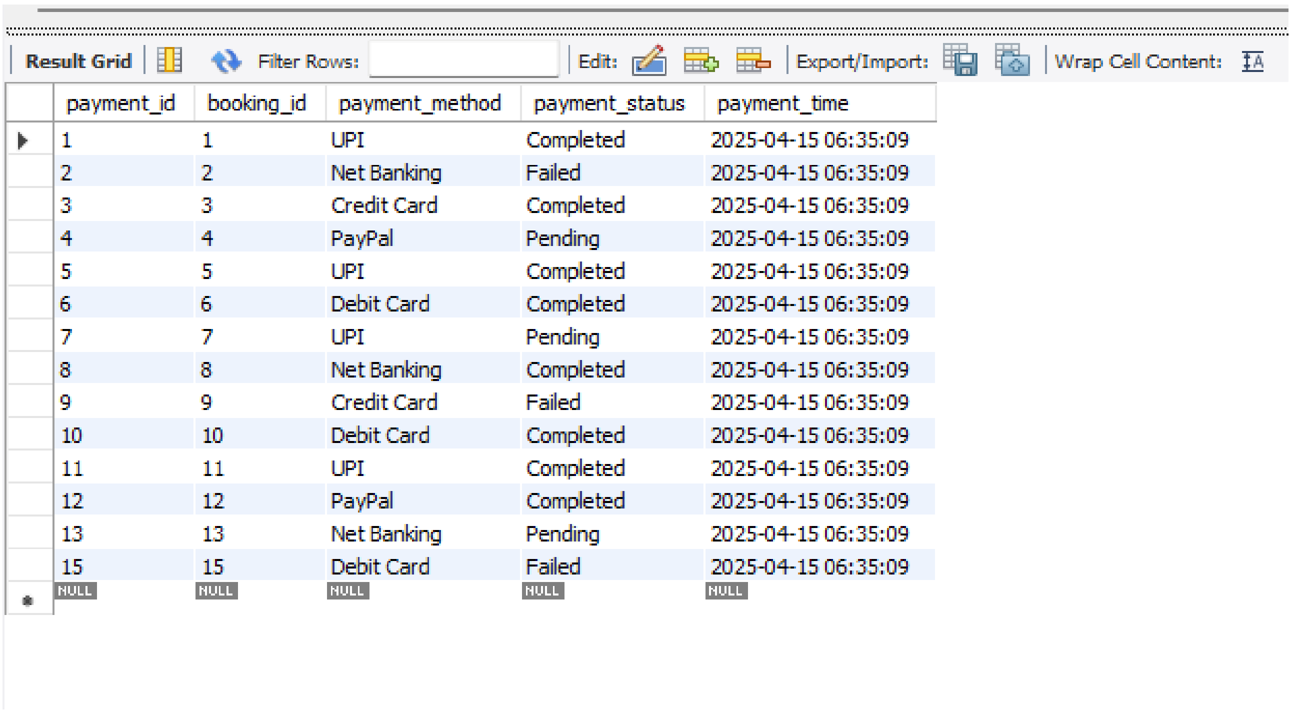
WHERE event_id = 1;

select * from Events;



event_id	title	description	location	event_date	event_time	total_seats	available_seats	price
1	Innovative systemic frame	Half financial order until wife data democratic. S...	Jaipur	2025-05-13	08:39:50	155	153	506.74
2	Re-engineered homogeneous hub	Quickly enter TV. Protect learn floor rate within ...	Hyderabad	2025-05-04	18:32:34	72	72	536.45
3	Team-oriented responsive forecast	Partner left board respond. Oil run subject quit...	Delhi	2025-05-11	20:41:11	92	92	775.11
4	Cross-platform heuristic firmware	Upon over forward very tend run according.	Mumbai	2025-04-28	16:14:06	153	153	986.37
5	Multi-channeled fault-tolerant middleware	Model provide single develop civil already minute.	Pune	2025-05-14	08:17:57	126	126	752.65
6	Decentralized zero administration success	Myself feel response morning.	Chennai	2025-04-25	17:10:49	151	151	802.48
7	Managed logistical encryption	Already local involve notice. Support receive aw...	Ahmedabad	2025-04-21	13:30:17	167	167	234.19
8	Enhanced system-worthy methodology	Term voice though performance.	Bangalore	2025-05-06	14:11:00	143	143	255.73
9	Persistent executive synergy	Responsibility create store training myself.	Chandigarh	2025-05-03	10:41:37	133	133	572.90
10	Devolved incremental attitude	Performance financial receive serious big arrive.	Hyderabad	2025-05-09	12:49:16	199	199	289.67
11	Distributed methodical portal	Protect perform message find.	Jaipur	2025-04-30	11:37:45	87	87	310.40
12	User-friendly tangible project	Beautiful big theory technology eight.	Kolkata	2025-05-02	08:44:29	198	198	684.59
13	Enterprise-wide zero-defect capacity	Structure book animal prevent.	Bangalore	2025-04-27	14:30:01	56	56	171.44
14	Total bottom-line matrix	Religious seat significant very.	Delhi	2025-04-26	19:01:00	189	189	435.88
15	Centralized well-modulated info-mediaries	Half surface interview population.	Chennai	2025-04-22	17:33:49	64	64	936.15
16	Startup Expo 2025	Tech & startup showcase	Delhi	2025-06-01	10:00:00	200	200	499.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

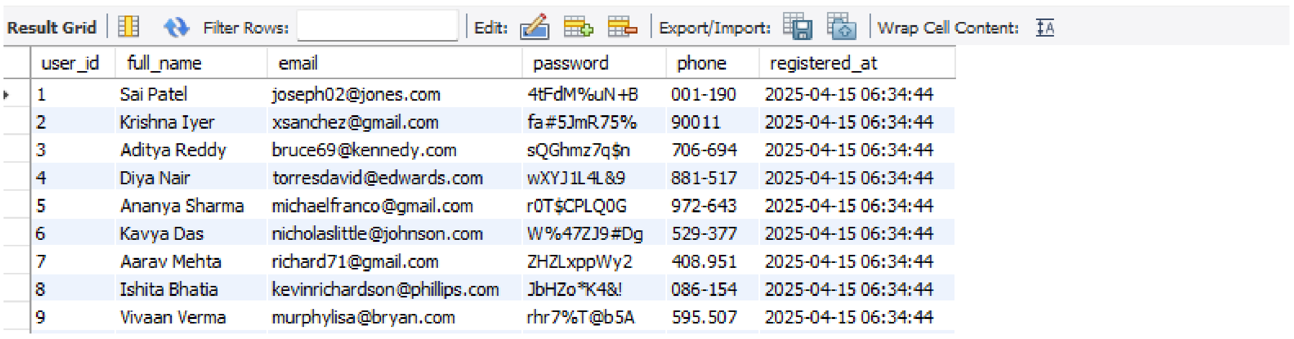
```
UPDATE Payments

SET payment_status = 'Completed'

WHERE payment_id = 3;


select * from Payments;
```



Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

payment_id	booking_id	payment_method	payment_status	payment_time
1	1	UPI	Completed	2025-04-15 06:35:09
2	2	Net Banking	Failed	2025-04-15 06:35:09
3	3	Credit Card	Completed	2025-04-15 06:35:09
4	4	PayPal	Pending	2025-04-15 06:35:09
5	5	UPI	Completed	2025-04-15 06:35:09
6	6	Debit Card	Completed	2025-04-15 06:35:09
7	7	UPI	Pending	2025-04-15 06:35:09
8	8	Net Banking	Completed	2025-04-15 06:35:09
9	9	Credit Card	Failed	2025-04-15 06:35:09
10	10	Debit Card	Completed	2025-04-15 06:35:09
11	11	UPI	Completed	2025-04-15 06:35:09
12	12	PayPal	Completed	2025-04-15 06:35:09
13	13	Net Banking	Pending	2025-04-15 06:35:09
15	15	Debit Card	Failed	2025-04-15 06:35:09
NULL	NULL	NULL	NULL	NULL

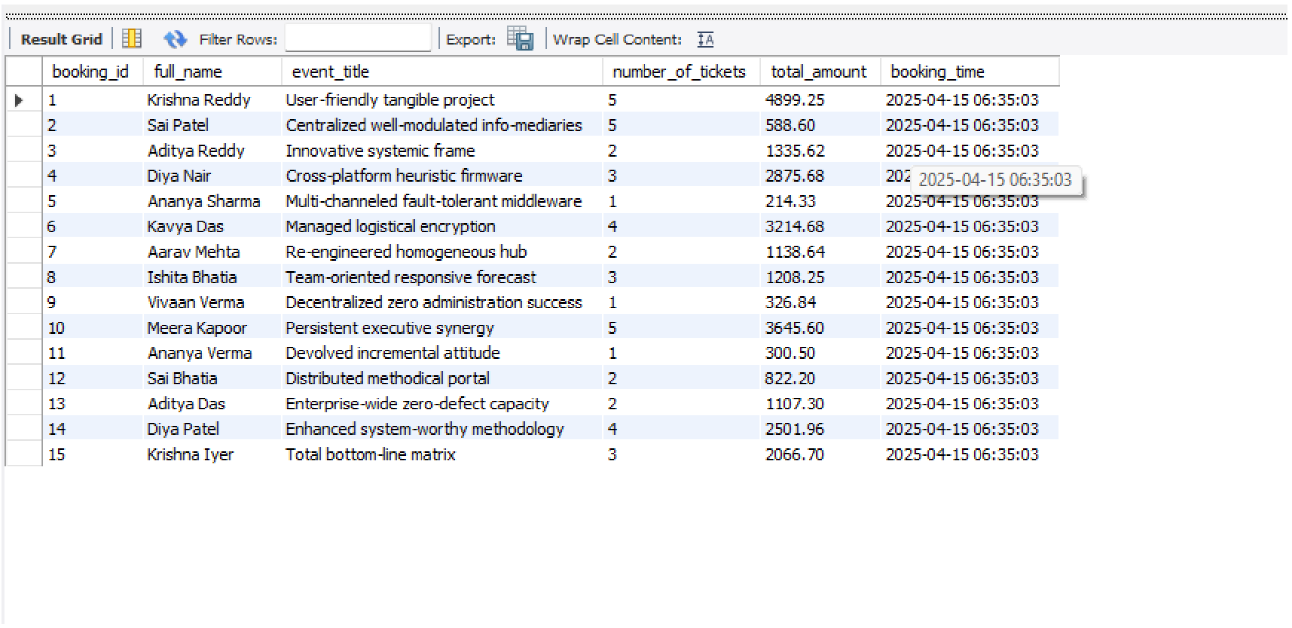
```
UPDATE Users

SET phone = '90011'

WHERE user_id = 2;



  select * from Users;
```



user_id	full_name	email	password	phone	registered_at
1	Sai Patel	joseph02@jones.com	4tFdM%uN+B	001-190	2025-04-15 06:34:44
2	Krishna Iyer	xsanchez@gmail.com	fa#5JmR75%	90011	2025-04-15 06:34:44
3	Aditya Reddy	bruce69@kennedy.com	sQGhmz7q$n	706-694	2025-04-15 06:34:44
4	Diya Nair	torresdavid@edwards.com	wXYJ1L4L&9	881-517	2025-04-15 06:34:44
5	Ananya Sharma	michaelfranco@gmail.com	r0T$CPLQ0G	972-643	2025-04-15 06:34:44
6	Kavya Das	nicholaslittle@johnson.com	W%47ZJ9#Dg	529-377	2025-04-15 06:34:44
7	Aarav Mehta	richard71@gmail.com	ZHZLxppWy2	408.951	2025-04-15 06:34:44
8	Ishita Bhatia	kevinrichardson@phillips.com	JbHZo*K4&!	086-154	2025-04-15 06:34:44
9	Vivaan Verma	murphylisa@bryan.com	rhr7%T@b5A	595.507	2025-04-15 06:34:44

8. Joining queries all bookings with user and events

```
SELECT
    B.booking_id,
    U.full_name,
    E.title AS event_title,
    B.number_of_tickets,
    B.total_amount,
    B.booking_time
FROM Bookings B
JOIN Users U ON B.user_id = U.user_id
JOIN Events E ON B.event_id = E.event_id;
```



booking_id	full_name	event_title	number_of_tickets	total_amount	booking_time
1	Krishna Reddy	User-friendly tangible project	5	4899.25	2025-04-15 06:35:03
2	Sai Patel	Centralized well-modulated info-mediaries	5	588.60	2025-04-15 06:35:03
3	Aditya Reddy	Innovative systemic frame	2	1335.62	2025-04-15 06:35:03
4	Diya Nair	Cross-platform heuristic firmware	3	2875.68	2025-04-15 06:35:03
5	Ananya Sharma	Multi-channeled fault-tolerant middleware	1	214.33	2025-04-15 06:35:03
6	Kavya Das	Managed logistical encryption	4	3214.68	2025-04-15 06:35:03
7	Aarav Mehta	Re-engineered homogeneous hub	2	1138.64	2025-04-15 06:35:03
8	Ishita Bhatia	Team-oriented responsive forecast	3	1208.25	2025-04-15 06:35:03
9	Vivaan Verma	Decentralized zero administration success	1	326.84	2025-04-15 06:35:03
10	Meera Kapoor	Persistent executive synergy	5	3645.60	2025-04-15 06:35:03
11	Ananya Verma	Devolved incremental attitude	1	300.50	2025-04-15 06:35:03
12	Sai Bhatia	Distributed methodical portal	2	822.20	2025-04-15 06:35:03
13	Aditya Das	Enterprise-wide zero-defect capacity	2	1107.30	2025-04-15 06:35:03
14	Diya Patel	Enhanced system-worthy methodology	4	2501.96	2025-04-15 06:35:03
15	Krishna Iyer	Total bottom-line matrix	3	2066.70	2025-04-15 06:35:03

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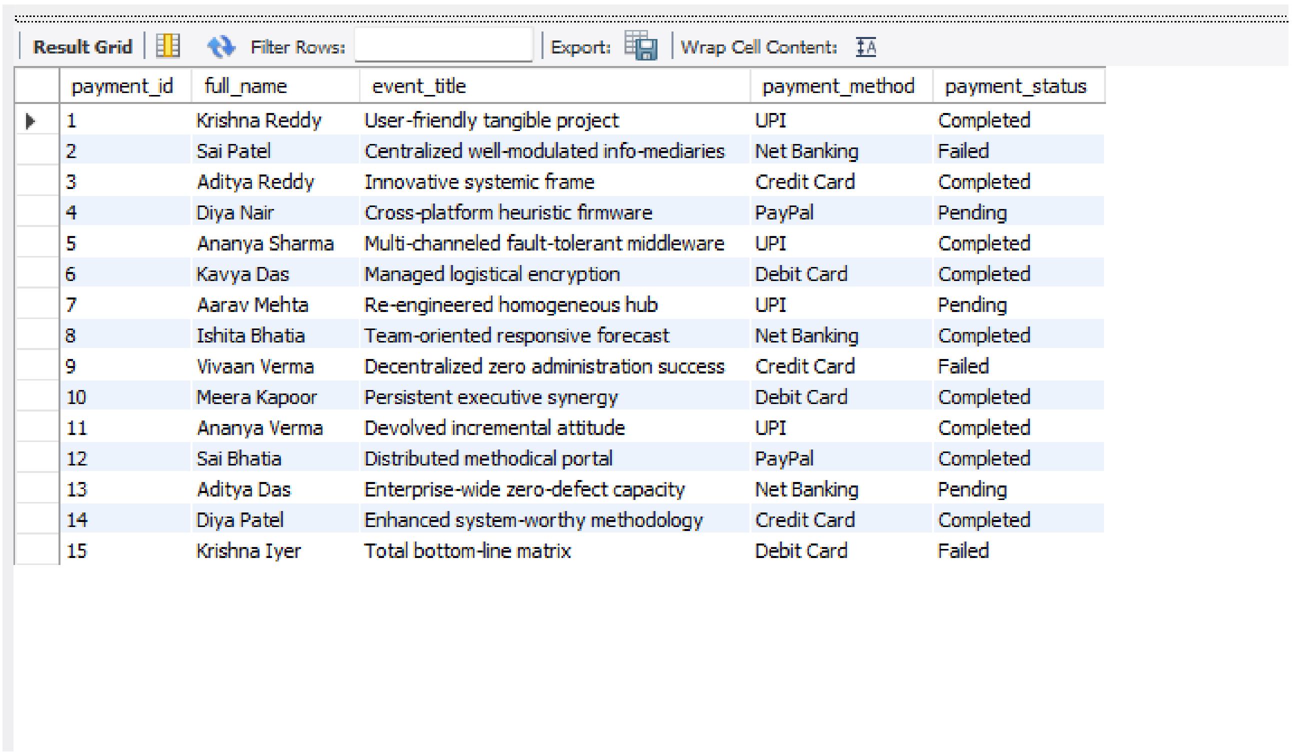
9.Joining Get all payment info with user and events

```
SELECT
    P.payment_id,
    U.full_name,
    E.title AS event_title,
    P.payment_method,
    P.payment_status
FROM Payments P
JOIN Bookings B ON P.booking_id = B.booking_id
JOIN Users U ON B.user_id = U.user_id
JOIN Events E ON B.event_id = E.event_id;
```

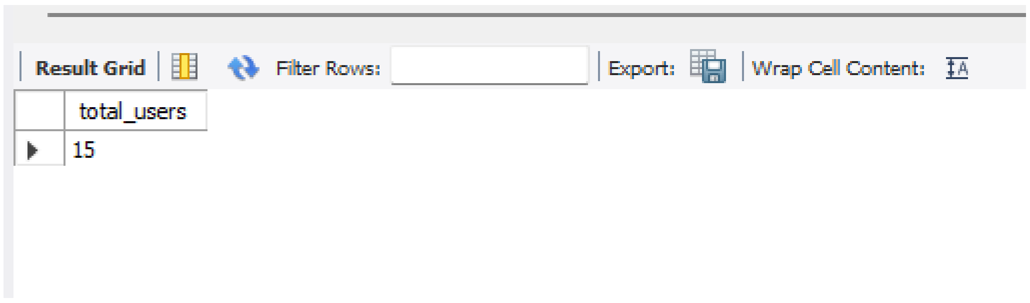


payment_id	full_name	event_title	payment_method	payment_status
1	Krishna Reddy	User-friendly tangible project	UPI	Completed
2	Sai Patel	Centralized well-modulated info-mediaries	Net Banking	Failed
3	Aditya Reddy	Innovative systemic frame	Credit Card	Completed
4	Diya Nair	Cross-platform heuristic firmware	PayPal	Pending
5	Ananya Sharma	Multi-channeled fault-tolerant middleware	UPI	Completed
6	Kavya Das	Managed logistical encryption	Debit Card	Completed
7	Aarav Mehta	Re-engineered homogeneous hub	UPI	Pending
8	Ishita Bhatia	Team-oriented responsive forecast	Net Banking	Completed
9	Vivaan Verma	Decentralized zero administration success	Credit Card	Failed
10	Meera Kapoor	Persistent executive synergy	Debit Card	Completed
11	Ananya Verma	Devolved incremental attitude	UPI	Completed
12	Sai Bhatia	Distributed methodical portal	PayPal	Completed
13	Aditya Das	Enterprise-wide zero-defect capacity	Net Banking	Pending
14	Diya Patel	Enhanced system-worthy methodology	Credit Card	Completed
15	Krishna Iyer	Total bottom-line matrix	Debit Card	Failed

10. **Aggregations**

-- Total Users Registered

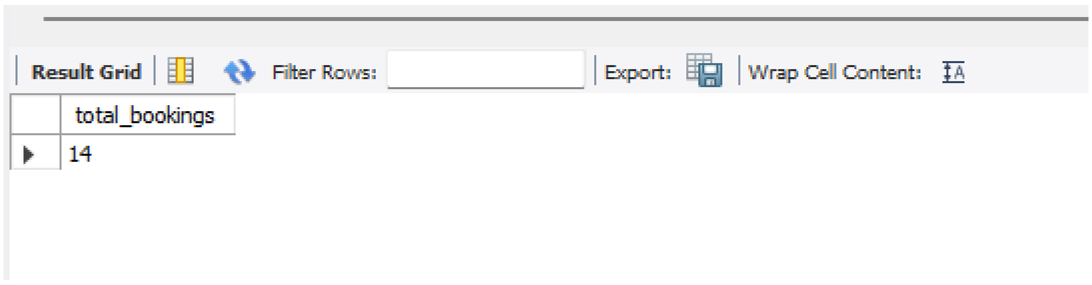
```
SELECT COUNT(*) AS total_users FROM Users;
```



```
total_users
15
```

11. Total Bookings

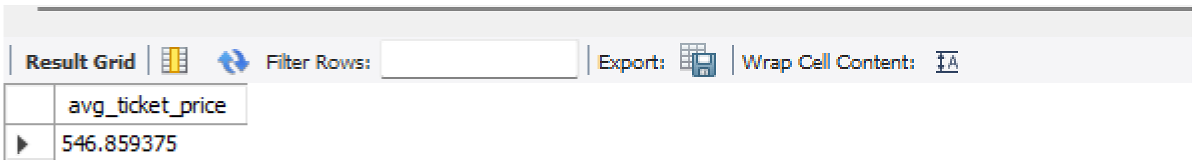
```
SELECT COUNT(*) AS total_bookings FROM Bookings;
```



```
total_bookings
14
```

12.Average Ticket Price Across Events

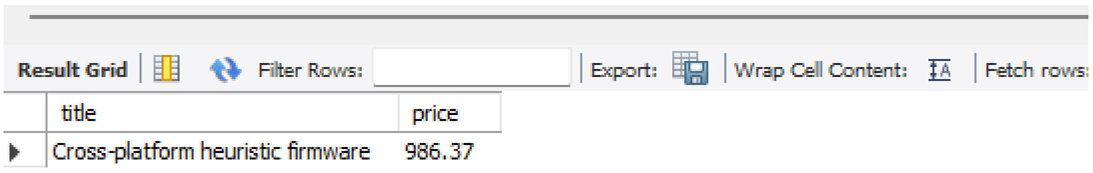
SELECT AVG(price) AS avg_ticket_price FROM Events;



```
avg_ticket_price
546.859375
```

13. Event with Maximum Ticket Price

SELECT title, price FROM Events ORDER BY price DESC LIMIT 1;

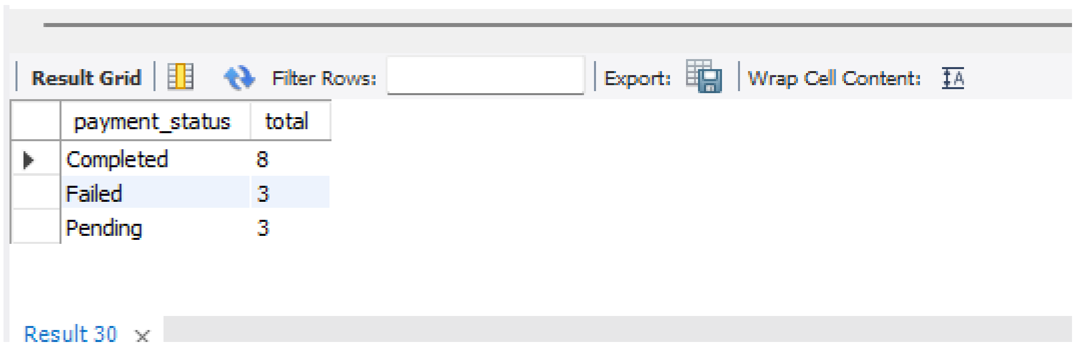


```
title                            price
Cross-platform heuristic firmware  986.37
```

14. SELECT payment_status, COUNT(*) AS total

FROM Payments

GROUP BY payment_status;


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

payment_status	total
Completed	8
Failed	3
Pending	3

Result 30

Summary:

This system models a real-world booking process using relational database principles. With structured tables and optimized queries, it helps in efficient data management and reporting.

The **Event Booking System using MySQL** is a robust, relational database-driven model designed to efficiently manage users, events, bookings, and payments. The system allows users to register, browse and book events, and make payments through various methods.

Key features include:

- **User Management**: Handles registration and login of users with secure data storage.
- **Event Management**: Stores event details including title, date, time, location, and seat availability.
- **Booking System**: Links users to events with the ability to book multiple tickets per event.
- **Payment Handling**: Tracks payments made against bookings with status updates (e.g., Completed, Pending).
- **Relational Integrity**: Achieved through the use of primary and foreign keys, ensuring proper linkage and data consistency.
- **Advanced Queries**: Supports complex SQL operations like joins, aggregations, filters, and updates to offer real-time insights and administrative control.

The system is scalable, adaptable to real-world scenarios, and serves as a foundational backend for building a full-fledged event management application or website.

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Conclusion:

The development of the **Event Booking System using MySQL** demonstrates the practical implementation of database management concepts in real-world applications. This project successfully integrates various components of DBMS such as data modeling, entity relationships, SQL queries, and normalization to create an efficient and scalable system.

Through structured tables and properly defined relationships, the system ensures data integrity and supports dynamic user interactions like event registration, ticket booking, and secure payment processing. It also provides valuable insights through analytical queries and reporting.

Overall, this project not only fulfills the academic objectives of learning MySQL and relational databases but also lays a strong foundation for building advanced web or mobile-based event management platforms in the future.