

Assignment-5

Task-1

1, Create the database named "TicketBookingSystem"

```
1 • create database TicketBookingSystem;  
2 • use TicketBookingSystem;
```

✓	64	15:02:49	create database TicketBookingSystem	1 row(s) affected
✓	65	15:02:53	use TicketBookingSystem	0 row(s) affected

2, Write SQL scripts to create the mentioned tables with appropriate data types, constraints, and relationships. • Venu • Event • Customers • Booking

Venue_table:

```
4 • create table venue_table  
5 (venue_id int primary key, venue_name varchar(255), address varchar(255));  
6 • desc venue_table;
```

<						
Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	venue_id	int	NO	PRI	NULL	
	venue_name	varchar(255)	YES		NULL	
	address	varchar(255)	YES		NULL	

event:

```
8 • create table event
9 • (event_id int primary key,event_name varchar(255), event_date date, event_time time, venue_id int, foreign key(venue_id) references
10 • venue_table(venue_id),total_seats bigint, available_seats bigint, ticket_price DECIMAL(10,2),event_type text);
11 • alter table event add column booking_id int;
12 • alter table event add
13 • foreign key(booking_id) references booking(booking_id);
14 • desc event;
```

Field	Type	Null	Key	Default	Extra
event_id	int	NO	PRI	NULL	
event_name	varchar(255)	YES		NULL	
event_date	date	YES		NULL	
event_time	time	YES		NULL	
venue_id	int	YES	MUL	NULL	
total_seats	bigint	YES		NULL	
available_seats	bigint	YES		NULL	
ticket_price	decimal(10,2)	YES		NULL	
event_type	text	YES		NULL	
booking_id	int	YES	MUL	NULL	

Customer:

```
44 • create table customer
45 • (customer_id int primary key, customer_name text, email text, phone varchar(11));
46 • alter table customer add column booking_id int;
47 • alter table customer add
48 • foreign key(booking_id) references booking(booking_id);
49 • desc customer;
```

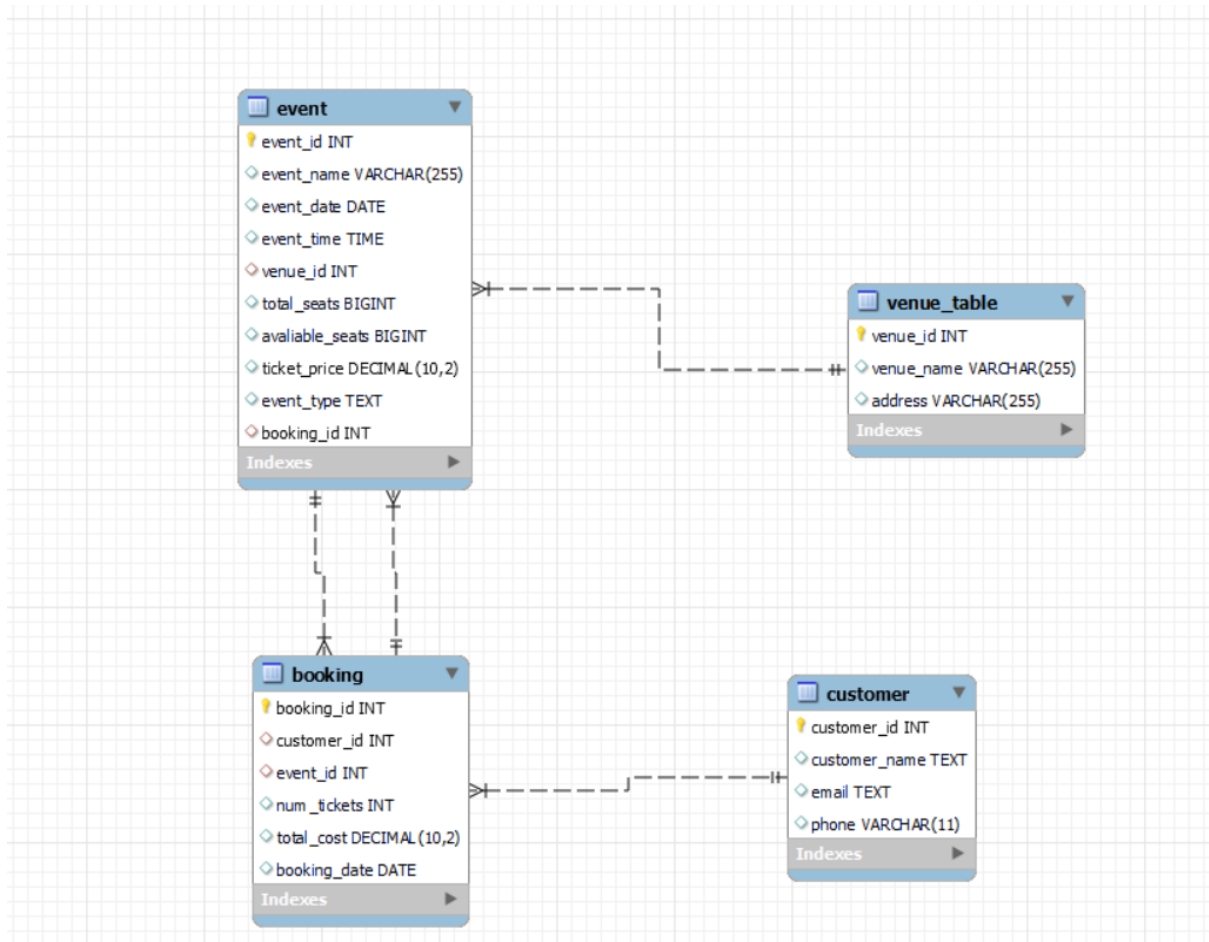
Field	Type	Null	Key	Default	Extra
customer_id	int	NO	PRI	NULL	
customer_name	text	YES		NULL	
email	text	YES		NULL	
phone	varchar(11)	YES		NULL	
booking_id	int	YES		NULL	

Booking:

```
23 • create table booking
24 • (booking_id int primary key, customer_id int,foreign key(customer_id) references customer(customer_id), event_id int,
25 • foreign key(event_id) references event(event_id), num_tickets int, total_cost decimal(10,2), booking_date date);
26 • desc booking;
```

Field	Type	Null	Key	Default	Extra
booking_id	int	NO	PRI	NULL	
customer_id	int	YES	MUL	NULL	
event_id	int	YES	MUL	NULL	
num_tickets	int	YES		NULL	
total_cost	decimal(10,2)	YES		NULL	
booking_date	date	YES		NULL	

3, Create an ERD (Entity Relationship Diagram) for the database.



Task-2

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

Venue:

```
8 • INSERT INTO Venue_table (venue_id, venue_name, address)
9 VALUES
10 (1, 'Royal Palace Banquet Hall', '123 Main Street, Mumbai, Maharashtra, India'),
11 (2, 'Green Valley Gardens', '456 Avenue, Bangalore, Karnataka, India'),
12 (3, 'Grand Plaza Convention Center', '789 Pine Road, Delhi, NCR, India'),
13 (4, 'Elegant Halls and Events', '101 Maple Lane, Chennai, Tamil Nadu, India'),
14 (5, 'Celestial Ballroom', '202 Cedar Street, Kolkata, West Bengal, India'),
15 (6, 'Sapphire Wedding Venues', '303 Birch Avenue, Hyderabad, Telangana, India'),
16 (7, 'Golden Sands Resort', '404 Elm Lane, Pune, Maharashtra, India'),
17 (8, 'Crystal Gardens', '505 Redwood Road, Ahmedabad, Gujarat, India'),
18 (9, 'Heritage Hall', '606 Willow Lane, Jaipur, Rajasthan, India'),
19 (10, 'Starlight Convention Center', '707 Oak Street, Lucknow, Uttar Pradesh, India');
20 • select * from venue_table;
```

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

venue_id	venue_name	address
1	Royal Palace Banquet Hall	123 Main Street, Mumbai, Maharashtra, India
2	Green Valley Gardens	456 Avenue, Bangalore, Karnataka, India
3	Grand Plaza Convention Center	789 Pine Road, Delhi, NCR, India
4	Elegant Halls and Events	101 Maple Lane, Chennai, Tamil Nadu, India
5	Celestial Ballroom	202 Cedar Street, Kolkata, West Bengal, India
6	Sapphire Wedding Venues	303 Birch Avenue, Hyderabad, Telangana, India
7	Golden Sands Resort	404 Elm Lane, Pune, Maharashtra, India
8	Crystal Gardens	505 Redwood Road, Ahmedabad, Gujarat, India
9	Heritage Hall	606 Willow Lane, Jaipur, Rajasthan, India
10	Starlight Convention Center	707 Oak Street, Lucknow, Uttar Pradesh, India
NULL	NULL	NULL

Event:

```
26 • alter table event add
27 foreign key(booking_id) references booking(booking_id);
28 • INSERT INTO Event (event_id, event_name, event_date, event_time, venue_id, total_seats, available_seats, ticket_price, event_type, booking_id)
29 VALUES
30 (1, 'Bollywood Night Extravaganza', '2024-06-17', '18:30:00', 1, 50, 47, 250.00, 'Concert', null),
31 (2, 'Cricket Tournament Finals world cup', '2024-05-20', '15:00:00', 2, 15500, 15480, 2400.00, 'Sports', null),
32 (3, 'Classic Movie Marathon', '2024-07-21', '12:00:00', 3, 100, 95, 50.00, 'Movie', null),
33 (4, 'Live Stand-Up Comedy Show', '2024-05-22', '19:00:00', 4, 50, 45, 120.00, 'Concert', null),
34 (5, 'Football Championship', '2024-05-01', '16:30:00', 5, 100, 100, 80.00, 'Sports', null),
35 (6, 'Melodious Sufi Night', '2024-08-10', '20:00:00', 6, 50, 49, 200.00, 'Concert', null),
36 (7, 'Outdoor Movie Night', '2024-06-25', '19:30:00', 7, 50, 45, 75.00, 'Movie', null),
37 (8, 'Basketball Showdown', '2024-07-15', '14:00:00', 8, 150, 145, 60.00, 'Sports', null),
38 (9, 'Folk Music Festival', '2024-09-03', '17:00:00', 9, 50, 47, 150.00, 'Concert', null),
39 (10, 'Tennis Championship asian cup', '2024-09-11', '12:30:00', 10, 200, 190, 1000.00, 'Sports', null);
40 • select * from event;
41
42 • update event set booking_id=101 where event_id=1;
43 • update event set booking_id=102 where event_id=2;
44 • update event set booking_id=103 where event_id=3;
45 • update event set booking_id=104 where event_id=4;
```

```

46 • update event set booking_id=105 where event_id=6;
47 • update event set booking_id=106 where event_id=7;
48 • update event set booking_id=107 where event_id=8;
49 • update event set booking_id=108 where event_id=9;
50 • update event set booking_id=109 where event_id=10;
51 • create table customer

```

Result Grid										
Filter Rows: <input type="text"/>										
Edit:										
Export/Import:										
Wrap Cell Content:										
event_id	event_name	event_date	event_time	venue_id	total_seats	available_seats	ticket_price	event_type	booking_id	
1	Bollywood Night Extravaganza	2024-06-17	18:30:00	1	50	47	250.00	Concert	101	
2	Cricket Tournament Finals world cup	2024-05-20	15:00:00	2	15500	15480	2400.00	Sports	102	
3	Classic Movie Marathon	2024-07-21	12:00:00	3	100	95	50.00	Movie	103	
4	Live Stand-Up Comedy Show	2024-05-22	19:00:00	4	50	45	120.00	Concert	104	
5	Football Championship	2024-05-01	16:30:00	5	100	100	80.00	Sports	105	
6	Melodious Sufi Night	2024-08-10	20:00:00	6	50	49	200.00	Concert	106	
7	Outdoor Movie Night	2024-06-25	19:30:00	7	50	45	75.00	Movie	107	
8	Basketball Showdown	2024-07-15	14:00:00	8	150	145	60.00	Sports	108	
9	Folk Music Festival	2024-09-03	17:00:00	9	50	47	150.00	Concert	109	
10	Tennis Championship asian cup	2024-09-11	12:30:00	10	200	190	1000.00	Sports	110	
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

Customer:

```

55 • INSERT INTO Customer (customer_id, customer_name, email, phone, booking_id)
56 VALUES
57 (1, 'Aditya Verma', 'aditya@gmail.com', '1234567890', null),
58 (2, 'Sneha Patel', 'sneha@gmail.com', '1234567891', null),
59 (3, 'Aryan Singh', 'aryan@gmail.com', '1234567892', null),
60 (4, 'Kavita Gupta', 'kavita@gmail.com', '1234567893', null),
61 (5, 'Rahul Sharma', 'rahul@gmail.com', '1234567894', null),
62 (6, 'Priya Mishra', 'priya@gmail.com', '1234567895', null),
63 (7, 'Vikram Malhotra', 'vikram@gmail.com', '1234567896', null),
64 (8, 'Anjali sharma', 'anjali@gmail.com', '1234567000', null),
65 (9, 'Neha Kapoor', 'neha@gmail.com', '1234567898', null),
66 (10, 'Ravi Verma', 'ravi@gmail.com', '1134567000', null),
67 (11, "akash devaki", "akash@gmail.com", "1478523691", null),
68 (12, "sai teja", "sai@gmail.com", "1478523692", null);
69
70 • update customer set booking_id=101 where customer_id=1;
71 • update customer set booking_id=102 where customer_id=2;
72 • update customer set booking_id=103 where customer_id=3;
73 • update customer set booking_id=104 where customer_id=4;
74 • update customer set booking_id=105 where customer_id=6;
75 • update customer set booking_id=106 where customer_id=7;

```

```

75 • update customer set booking_id=106 where customer_id=7;
76 • update customer set booking_id=107 where customer_id=8;
77 • update customer set booking_id=108 where customer_id=9;
78 • update customer set booking_id=109 where customer_id=10;
79 • select * from customer;

```

customer_id	customer_name	email	phone	booking_id
1	Aditya Verma	aditya@gmail.com	1234567890	101
2	Sneha Patel	sneha@gmail.com	1234567891	102
3	Aryan Singh	aryan@gmail.com	1234567892	103
4	Kavita Gupta	kavita@gmail.com	1234567893	104
5	Rahul Sharma	rahul@gmail.com	1234567894	NULL
6	Priya Mishra	priya@gmail.com	1234567895	105
7	Vikram Malhotra	vikram@gmail.com	1234567896	106
8	Anjali sharma	anjali@gmail.com	1234567000	107
9	Neha Kapoor	neha@gmail.com	1234567898	108
10	Ravi Verma	ravi@gmail.com	1134567000	109
11	akash devaki	akash@gmail.com	1478523691	NULL
12	sai teja	sai@gmail.com	1478523692	NULL
NULL	NULL	NULL	NULL	NULL

Booking:

```

83 • INSERT INTO Booking (booking_id, customer_id, event_id, num_tickets, total_cost, booking_date)
84 VALUES
85     (101, 1, 1, 3, 750.00, '2024-01-10'),
86     (102, 2, 2, 20, 48000.00, '2024-01-12'),
87     (103, 3, 3, 5, 250.00, '2024-01-15'),
88     (104, 4, 4, 5, 600.00, '2024-01-17'),
89     (105, 6, 6, 1, 200.00, '2024-02-20'),
90     (106, 7, 7, 5, 375.00, '2024-02-25'),
91     (107, 8, 8, 5, 300.00, '2024-03-05'),
92     (108, 9, 9, 3, 450.00, '2024-03-07'),
93     (109, 10, 10, 10, 10000.00, '2024-03-10');
94 • select * from booking;
95
96     /*task 2 question 3*/
97 • select * from event where available_seats <> 0;

```

booking_id	customer_id	event_id	num_tickets	total_cost	booking_date
101	1	1	3	750.00	2024-01-10
102	2	2	20	48000.00	2024-01-12
103	3	3	5	250.00	2024-01-15
104	4	4	5	600.00	2024-01-17
105	6	6	1	200.00	2024-02-20
106	7	7	5	375.00	2024-02-25
107	8	8	5	300.00	2024-03-05
108	9	9	3	450.00	2024-03-07
109	10	10	10	10000.00	2024-03-10
NULL	NULL	NULL	NULL	NULL	NULL

2, Write a SQL query to list all Events.

```
42 • select * from event;
```

```
UPDATE event cat_booking_id=101 where event_id=1;
```

[illegible]

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

```
97 • select * from event where available_seats <> 0;
```

98

[illegible]

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

```
100 • select * from Event where event name LIKE '%cup%';
```

101

[illegible]

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

```
103 • select * from Event where ticket_price between 1000 and 2500;
104
```

	event_id	event_name	event_date	event_time	venue_id	total_seats	available_seats	ticket_price	event_type	booking_id
▶	2	Cricket Tournament Finals world cup	2024-05-20	15:00:00	2	15500	15480	2400.00	Sports	102
	10	Tennis Championship asian cup	2024-09-11	12:30:00	10	200	190	1000.00	Sports	109
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

```
106 • select * from Event where event_date between '2024-05-01' and '2024-06-15';
107
```

	event_id	event_name	event_date	event_time	venue_id	total_seats	available_seats	ticket_price	event_type	booking_id
▶	2	Cricket Tournament Finals world cup	2024-05-20	15:00:00	2	15500	15480	2400.00	Sports	102
	4	Live Stand-Up Comedy Show	2024-05-22	19:00:00	4	50	45	120.00	Concert	104
	5	Football Championship	2024-05-01	16:30:00	5	100	100	80.00	Sports	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

```
116 • select * from event where available_seats <> 0 and event_name="%concert%";
```

	event_id	event_name	event_date	event_time	venue_id	total_seats	available_seats	ticket_price	event_type	booking_id
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Here we got this output because there is no event name which has concert in their name.

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

```
113 • SELECT *
114 FROM customer
115 ORDER BY customer_id
116 LIMIT 5 OFFSET 5;
117
```

Result Grid					
Filter Rows:					
Edit:					
Export					
customer_id	customer_name	email	phone	booking_id	
6	Priya Mishra	priya@gmail.com	1234567895	105	
7	Vikram Malhotra	vikram@gmail.com	1234567896	106	
8	Anjali sharma	anjali@gmail.com	1234567000	107	
9	Neha Kapoor	neha@gmail.com	1234567898	108	
10	Ravi Verma	ravi@gmail.com	1134567000	109	
NULL	NULL	NULL	NULL	NULL	

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

```
119 • select * from Booking where num_tickets > 4;
120
```

Result Grid						
Filter Rows:						
Edit:						
Export/Import						
booking_id	customer_id	event_id	num_tickets	total_cost	booking_date	
102	2	2	20	48000.00	2024-01-12	
103	3	3	5	250.00	2024-01-15	
104	4	4	5	600.00	2024-01-17	
106	7	7	5	375.00	2024-02-25	
107	8	8	5	300.00	2024-03-05	
109	10	10	10	10000.00	2024-03-10	
NULL	NULL	NULL	NULL	NULL	NULL	

Task – 3

1, Write a SQL query to List Events and Their Average Ticket Prices

```
132 • select Event_ID, Event_Name,  
133      avg(Ticket_Price) as AverageTicketPrice  
134      from Event e group by Event_ID, Event_Name;  
135
```

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

	Event_ID	Event_Name	AverageTicketPrice
▶	1	Bollywood Night Extravaganza	250.000000
	2	Cricket Tournament Finals world cup	2400.000000
	3	Classic Movie Marathon	50.000000
	4	Live Stand-Up Comedy Show	120.000000
	5	Football Championship	80.000000
	6	Melodious Sufi Night	200.000000
	7	Outdoor Movie Night	75.000000
	8	Basketball Showdown	60.000000
	9	Folk Music Festival	150.000000
	10	Tennis Championship asian cup	1000.000000

2, Write a SQL query to Calculate the Total Revenue Generated by Events

```
139 • SELECT sum(total_cost) as revenue_generated from booking;  
140
```

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

	revenue_generated
▶	60925.00

3, Write a SQL query to find the event with the highest ticket sales.

143

```
144 • select e.Event_ID,e.Event_Name,SUM(total_Seats-avaliable_seats) as TotalTicketSales
145 from event e group by e.Event_ID, e.Event_Name order by TotalTicketSales desc
146 LIMIT 1;
147
```

Result Grid

Filter Rows:

Export:





Wrap Cell Content:

Fetch rows:

Event_ID	Event_Name	TotalTicketSales
2	Cricket Tournament Finals world cup	20

4, Write a SQL query to Calculate the Total Number of Tickets Sold for Each Event.

```
149 • select e.event_id,event_name, b.num_tickets as total_tickets_saled from event e
150 join booking b on e.booking_id=b.booking_id;
151
```

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

	event_id	event_name	total_tickets_sold
▶	1	Bollywood Night Extravaganza	3
	2	Cricket Tournament Finals world cup	20
	3	Classic Movie Marathon	5
	4	Live Stand-Up Comedy Show	5
	6	Melodious Sufi Night	1
	7	Outdoor Movie Night	5
	8	Basketball Showdown	5
	9	Folk Music Festival	3
	10	Tennis Championship asian cup	10

Result 24

5, Write a SQL query to Find Events with No Ticket Sales.

```
153 • select * from event where total_seats=available_seats;
```

154

[illegible]

6, Write a SQL query to Find the User Who Has Booked the Most Tickets.

```
156 • select c.customer_name, b.customer_ID, SUM(Num_Tickets) as TotalTicketsBooked
157 from Booking b join customer c on c.customer_id=b.customer_id
158 group by customer_id
159 order by TotalTicketsBooked desc limit 1;
```

160

161

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

	customer_name	customer_ID	TotalTicketsBooked
▶	Sneha Patel	2	20

7, Write a SQL query to List Events and the total number of tickets sold for each month

```
162 • select b.Event_ID,e.event_name, month(booking_date) as SaleMonth, year(booking_date) as SaleYear,
163 SUM(Num_Tickets) AS TotalTicketsSold FROM booking b join event e on e.event_id=b.event_id
164 group by Event_ID, SaleMonth, SaleYear order by SaleYear, SaleMonth, Event_ID;
```



165

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

	Event_ID	event_name	SaleMonth	SaleYear	TotalTicketsSold
▶	1	Bollywood Night Extravaganza	1	2024	3
	2	Cricket Tournament Finals world cup	1	2024	20
	3	Classic Movie Marathon	1	2024	5
	4	Live Stand-Up Comedy Show	1	2024	5
	6	Melodious Sufi Night	2	2024	1
	7	Outdoor Movie Night	2	2024	5
	8	Basketball Showdown	3	2024	5
	9	Folk Music Festival	3	2024	3
	10	Tennis Championship asian cup	3	2024	10



8, Write a SQL query to calculate the average Ticket Price for Events in Each Venue

```
167 • select e.Venue_ID,v.Venue_Name,avg(t.total_cost ) as AverageTicketPrice
168 from event e join booking t on e.Event_ID = t.Event_ID
169 join Venue_table v on e.Venue_ID = v.Venue_ID
170 group by e.Venue_ID, v.Venue_Name order by e.Venue_ID;
171
172
```

Result Grid			
Filter Rows: <input type="text"/>			
Export:  Wrap Cell Content: 			
	Venue_ID	Venue_Name	AverageTicketPrice
▶	1	Royal Palace Banquet Hall	750.000000
	2	Green Valley Gardens	48000.000000
	3	Grand Plaza Convention Center	250.000000
	4	Elegant Halls and Events	600.000000
	6	Sapphire Wedding Venues	200.000000
	7	Golden Sands Resort	375.000000
	8	Crystal Gardens	300.000000
	9	Heritage Hall	450.000000
	10	Starlight Convention Center	10000.000000

9, Write a SQL query to calculate the total Number of Tickets Sold for Each Event Type

```
187
188 • select e.event_type,sum(b.num_tickets) as tickets from event e join booking b on e.event_id=b.event_id
189 group by event_type order by event_type;
190
```

Result Grid		
Filter Rows: <input type="text"/>		
Export:  Wrap Cell Content: 		
	event_type	tickets
▶	Concert	12
	Movie	10
	Sports	35

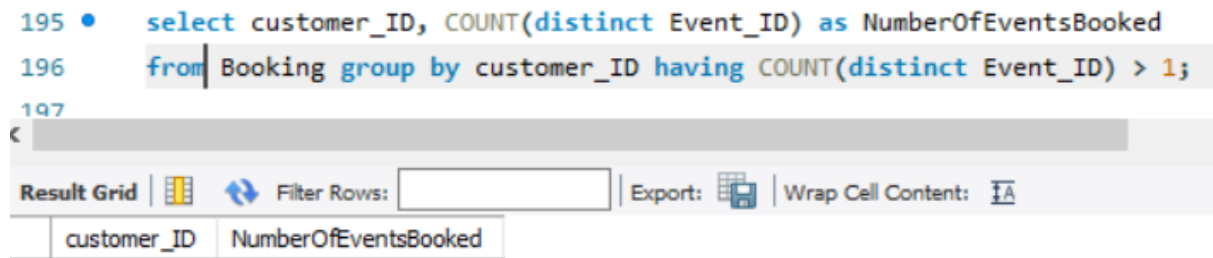
10, Write a SQL query to calculate the total Revenue Generated by Events in Each Year

```
190 • select year(Event_Date) as EventYear,
191 SUM((total_seats-avaliable_Seats)*ticket_price) as TotalRevenue
192 from event group by year(Event_Date) order by EventYear;
193
```

Result Grid		
Filter Rows: <input type="text"/>		
Export:  Wrap Cell Content: 		
	EventYear	TotalRevenue
▶	2024	60925.00

11, Write a SQL query to list users who have booked tickets for multiple events.

```
195 • select customer_ID, COUNT(distinct Event_ID) as NumberOfEventsBooked
196 from Booking group by customer_ID having COUNT(distinct Event_ID) > 1;
197
```

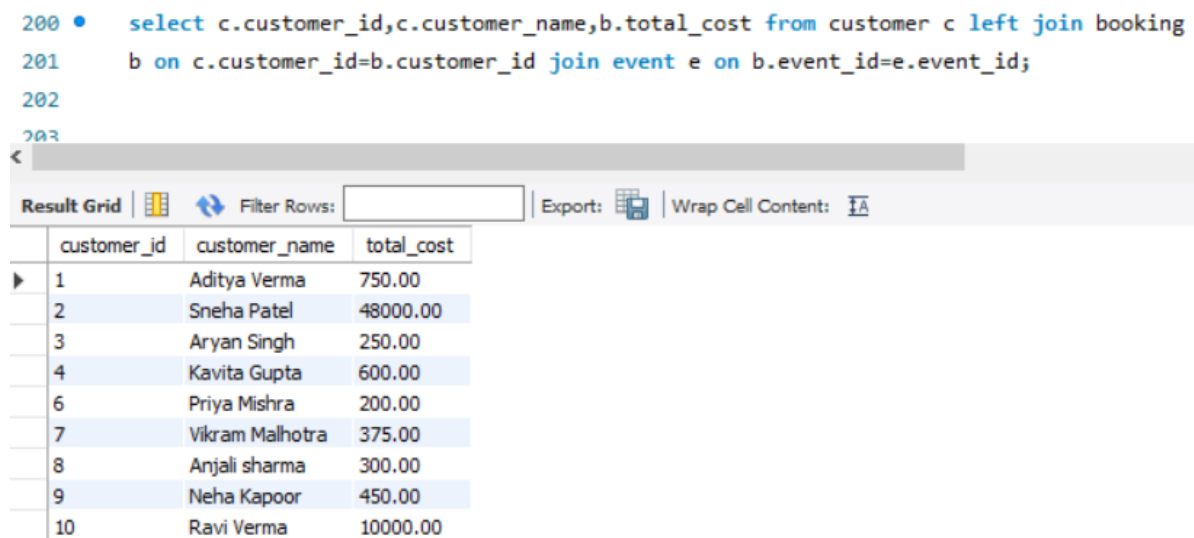


customer_ID	NumberOfEventsBooked
-------------	----------------------

Here we got no id because there is no customer in the database those who made bookings for multiple events.

12, Write a SQL query to calculate the Total Revenue Generated by Events for Each User

```
200 • select c.customer_id,c.customer_name,b.total_cost from customer c left join booking
201 b on c.customer_id=b.customer_id join event e on b.event_id=e.event_id;
202
203
```





customer_id	customer_name	total_cost
1	Aditya Verma	750.00
2	Sneha Patel	48000.00
3	Aryan Singh	250.00
4	Kavita Gupta	600.00
6	Priya Mishra	200.00
7	Vikram Malhotra	375.00
8	Anjali sharma	300.00
9	Neha Kapoor	450.00
10	Ravi Verma	10000.00

13, Write a SQL query to calculate the Average Ticket Price for Events in Each Category and Venue.

Category:

```
204 • select event_type, avg(ticket_price) from event group by event_type;
205
```

Result Grid		
Filter Rows: <input type="text"/>		
Export:  Wrap Cell Content: 		
	event_type	avg(ticket_price)
▶	Concert	180.000000
	Sports	885.000000
	Movie	62.500000

Venue:

```
205 • select v.venue_name, v.venue_id, avg(e.ticket_price) from venue_table v join event e on e.venue_id=v.venue_id group by venue_id;
```

14, Write a SQL query to list Users and the Total Number of Tickets They've Purchased in the Last 30 Days

```
206 • SELECT customer_id, SUM(Num_Tickets) AS TotalTicketsPurchased
207 FROM booking WHERE booking_Date >= curdate() - interval 30 day
208 GROUP BY customer_id ORDER BY customer_id;
```

209

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

	customer_id	TotalTicketsPurchased
▶	1	3
	2	20
	3	5
	4	5
	6	1
	7	5
	8	5
	9	3
	10	10

Task-4

1, Calculate the Average Ticket Price for Events in Each Venue Using a Subquery.

```
211 • SELECT
212     v.Venue_ID,
213     v.Venue_Name,
214     (SELECT AVG(total_cost) FROM booking t WHERE t.Event_ID IN (SELECT Event_ID FROM Event e WHERE e.Venue_ID = v.Venue_ID))
215     AS AverageTicketPrice
216 FROM
217     Venue_table v;
```

218

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

	Venue_ID	Venue_Name	AverageTicketPrice
▶	1	Royal Palace Banquet Hall	750.000000
	2	Green Valley Gardens	48000.000000
	3	Grand Plaza Convention Center	250.000000
	4	Elegant Halls and Events	600.000000
	5	Celestial Ballroom	10000.000000
	6	Sapphire Wedding Venues	200.000000
	7	Golden Sands Resort	375.000000
	8	Crystal Gardens	300.000000
	9	Heritage Hall	450.000000
	10	Starlight Convention Center	10000.000000

2, Find Events with More Than 50% of Tickets Sold using subquery.

```
221 • SELECT
222     Event_ID,
223     Event_Name,
224     sum(total_Seats-avaliable_seats) as tickets_sold,
225     Total_seats,
226     ((total_seats-avaliable_Seats) / Total_Seats) * 100 AS PercentageSold
227 FROM
228     Event
229 WHERE
230     ((total_seats-avaliable_Seats) / Total_Seats) * 100 > 50
231 group by Event_id;
232
233
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

Event_ID	Event_Name	tickets_sold	Total_seats	PercentageSold
----------	------------	--------------	-------------	----------------

Here we got this output because there is no event which has sold 50% of their tickets so we didn't get any event name as output.

3, Calculate the Total Number of Tickets Sold for Each Event.

```
227 • select e.event_id,COALESCE(b.num_tickets,0) as totaltickets from event e left join booking b on e.event_id=b.event_id;
228
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

event_id	totaltickets
1	3
2	20
3	5
4	5
5	0
6	1
7	5
8	5
9	3
10	10

4, Find Users Who Have Not Booked Any Tickets Using a NOT EXISTS Subquery.

```
230 • select customer_ID, customer_Name from customer c
231     where not exists (select 1 from Booking b where b.customer_ID = c.customer_ID);
232
```

customer_ID	customer_Name
5	Rahul Sharma
11	akash devaki
12	sai teja

5, List Events with No Ticket Sales Using a NOT IN Subquery.

```
234 • select event_ID, event_Name from event e
235     where not exists (select 1 from Booking b where b.event_ID = e.event_ID);
236
```

event_ID	event_Name
5	Football Championship

6, Calculate the Total Number of Tickets Sold for Each Event Type Using a Subquery in the FROM Clause.

```
246 • select e.event_type, (select COALESCE(SUM(b.Num_Tickets), 0)
247     from booking b where e.event_id=b.event_id) as TotalTicketsSold From event e group by event_type;
248
```

event_type	TotalTicketsSold
Concert	3
Sports	20
Movie	5

7, Find Events with Ticket Prices Higher Than the Average Ticket Price Using a Subquery in the WHERE Clause.

```

250 • select event_id,event_name,ticket_price from event
251     where ticket_price > (select avg(ticket_price) from event);
252

```

event_id	event_name	ticket_price
2	Cricket Tournament Finals world cup	2400.00
10	Tennis Championship asian cup	1000.00
NULL	NULL	NULL

8, Calculate the Total Revenue Generated by Events for Each User Using a Correlated Subquery

```

252 • select c.customer_ID,c.customer_Name,
253     (
254         select COALESCE(SUM(b.total_cost), 0)
255         from event e
256         join booking b on e.Event_ID = b.Event_ID
257         where b.customer_ID = c.customer_id
258     ) as TotalRevenue
259     from customer c;
260

```

customer_ID	customer_Name	TotalRevenue
1	Aditya Verma	750.00
2	Sneha Patel	48000.00
3	Aryan Singh	250.00
4	Kavita Gupta	600.00
5	Rahul Sharma	0.00
6	Priya Mishra	200.00
7	Vikram Malhotra	375.00
8	Anjali sharma	300.00
9	Neha Kapoor	450.00
10	Ravi Verma	10000.00
11	akash devaki	0.00
12	sai teja	0.00



9, List Users Who Have Booked Tickets for Events in a Given Venue Using a Subquery in the WHERE Clause

```
262 • select c.customer_ID,c.customer_Name from customer c
263 where exists (select 1 from Booking b
264 join event e on b.Event_ID = e.Event_ID
265 where b.customer_ID = c.customer_ID and e.Venue_ID = 3 );
266
```

Result Grid		
Filter Rows: <input type="text"/>		
Export:  Wrap Cell Content: 		
	customer_ID	customer_Name
▶	3	Aryan Singh

10, Calculate the Total Number of Tickets Sold for Each Event Category Using a Subquery with GROUP BY

```
270 • select e.event_type,(select COALESCE(SUM(b.Num_Tickets), 0)
271 from booking b where e.event_id=b.event_id) as TotalTicketsSold From event e group by event_id, event_type ;
272
```

Result Grid		
Filter Rows: <input type="text"/>		
Export:  Wrap Cell Content: 		
	event_type	TotalTicketsSold
▶	Concert	3
	Sports	20
	Movie	5
	Concert	5
	Sports	0
	Concert	1
	Movie	5
	Sports	5
	Concert	3
	Sports	10

11, Find Users Who Have Booked Tickets for Events in each Month Using a Subquery with DATE_FORMAT.

```
268 • select c.customer_id,c.customer_Name,DATE_FORMAT(b.booking_date, '%Y-%m') as PurchaseMonth
269 from customer c join Booking b on c.customer_id = b.customer_id
270 join Event e on b.Event_ID = e.Event_ID
271 where DATE_FORMAT(b.booking_date, '%Y-%m') IN (
272 select distinct DATE_FORMAT(booking_date, '%Y-%m') as BookingMonth from Booking b)
273 order by c.customer_id, PurchaseMonth;
274
```

Result Grid			
Filter Rows: <input type="text"/>			
Export: Wrap Cell Content:			
	customer_id	customer_Name	PurchaseMonth
▶	1	Aditya Verma	2024-01
	2	Sneha Patel	2024-01
	3	Aryan Singh	2024-01
	4	Kavita Gupta	2024-01
	6	Priya Mishra	2024-02
	7	Vikram Malhotra	2024-02
	8	Anjali sharma	2024-03
	9	Neha Kapoor	2024-03
	10	Ravi Verma	2024-03

12, Calculate the Average Ticket Price for Events in Each Venue Using a Subquery

```
276 • select v.Venue_ID,v.Venue_Name,
277 (select COALESCE(avg(e.Ticket_Price), 0) from event e
278 join booking b on e.Event_ID = b.Event_ID
279 where e.Venue_ID = v.Venue_ID) as AverageTicketPrice
280 from Venue_table v;
281
```

Result Grid			
Filter Rows: <input type="text"/>			
Export: Wrap Cell Content:			
	Venue_ID	Venue_Name	AverageTicketPrice
▶	1	Royal Palace Banquet Hall	250.000000
	2	Green Valley Gardens	2400.000000
	3	Grand Plaza Convention Center	50.000000
	4	Elegant Halls and Events	120.000000
	5	Celestial Ballroom	0.000000
	6	Sapphire Wedding Venues	200.000000
	7	Golden Sands Resort	75.000000
	8	Crystal Gardens	60.000000
	9	Heritage Hall	150.000000
	10	Starlight Convention Center	1000.000000

Submitted By:

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