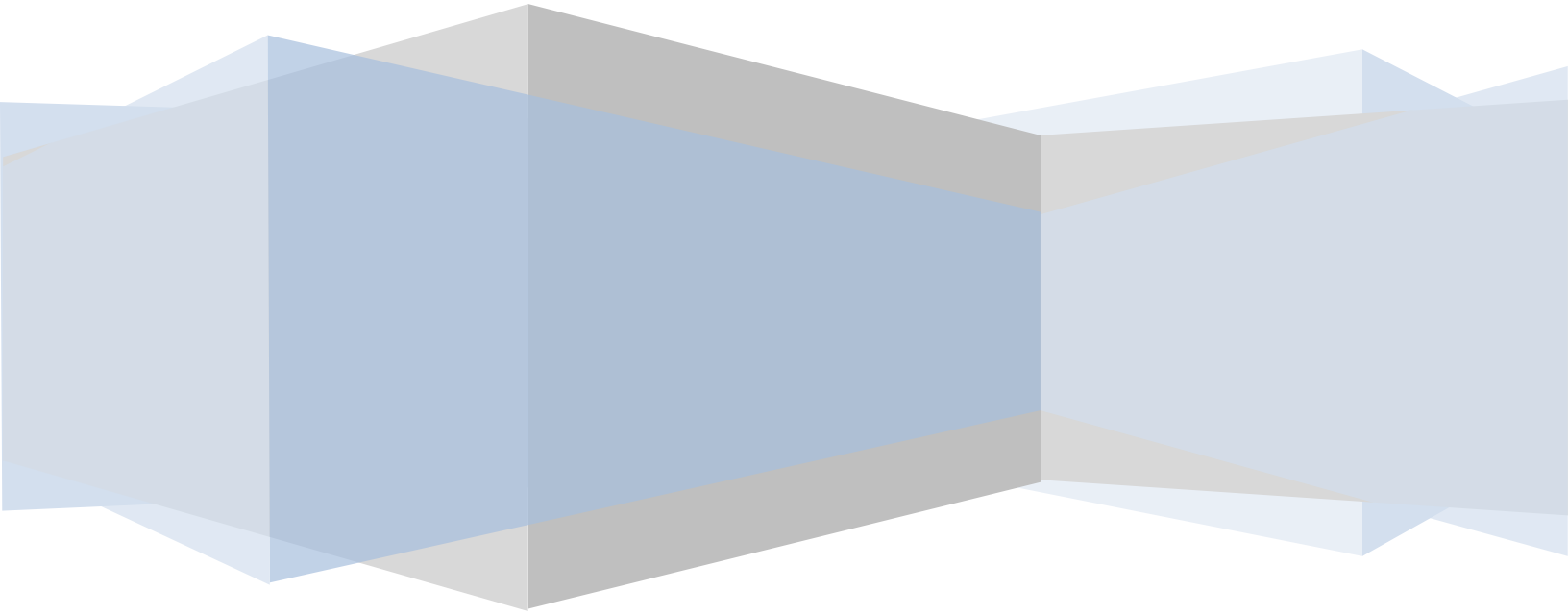
EVENT TICKETING SYSTEM DATABASE DESIGN

Database Management for Event Ticketing: An SQL Approach

Praveen



Create Database and Tables

Create database

```
2     -- Create Database and Select Database --
3
4 •   create database event_ticketing_system;
5 •   use event_ticketing_system;
6
```

Action Output

#	Time	Action	Message
1	19:08:14	use event_ticketing_system	0 row(s) affected

Create customers table

```
7     -- create customers table --
8 •   create table customers
9     (
10    CustomerID int primary key auto_increment,
11    Name varchar(30) not null,
12    Age int check(age>=10),
13    Gender enum("M","F"),
14    Phone_no bigint unique not null,
15    EmailID varchar(40),
16    Address varchar(150)
17    );
18 •  desc customers;
```

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

Field	Type	Null	Key	Default	Extra
CustomerID	int	NO	PRI	NULL	auto_increment
Name	varchar(30)	NO		NULL	
Age	int	YES		NULL	
Gender	enum('M','F')	YES		NULL	
Phone_no	bigint	NO	UNI	NULL	
EmailID	varchar(40)	YES		NULL	
Address	varchar(150)	YES		NULL	

Create events table

```
20      -- Create Events Table --
21      create table events
22      (
23      EventID varchar(30) unique not null,
24      Event_Name varchar(100) unique not null,
25      Category varchar(50),
26      Date varchar(20) not null,
27      Address varchar(100) default"Chennai",
28      Description varchar(500) default"Welcome to the Event"
29      );
30      desc events;
31
```

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

Field	Type	Null	Key	Default	Extra
EventID	varchar(30)	NO	PRI	NULL	
Event_Name	varchar(100)	NO	UNI	NULL	
Category	varchar(50)	YES		NULL	
Date	varchar(20)	NO		NULL	
Address	varchar(100)	YES		Chennai	
Description	varchar(500)	YES		Welcome to the Event	

Create reservations table

```
32      -- Create Reservations Table --
33      create table Reservations
34      (
35      ReserveID int primary key auto_increment,
36      CustomerID int,
37      EventID varchar(30),
38      ReserveDATE date default(curdate()),
39      PaymentType varchar(20) default"UPI",
40      Payment_Status varchar(20) check(payment_status in ("Cancelled","Pending","Completed")),
41      constraint fr_cusn foreign key(customerID) REFERENCES customers(customerID),
42      constraint fr_evid foreign key(eventID) REFERENCES events(eventID)
43      );
44      desc Reservations;
```

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

Field	Type	Null	Key	Default	Extra
ReserveID	int	NO	PRI	NULL	auto_increment
CustomerID	int	YES	MUL	NULL	
EventID	varchar(30)	YES	MUL	NULL	
ReserveDATE	date	YES		curdate()	DEFAULT_GENERATED
PaymentType	varchar(20)	YES		UPI	
Payment_Status	varchar(20)	YES		NULL	

Create tickets table

```
45
46      --  Create Tickets Table --
47      create table Tickets
48      (
49      TicketNO int primary key auto_increment,
50      ReserveID int,
51      Category varchar(10) check(Category in ("VIP","Ordinary","FristClass")),
52      SeatNO varchar(10) not null,
53      constraint fk_rsID foreign key(ReserveID) REFERENCES Reservations(ReserveID)
54      );
55      desc Tickets;
56
57
```

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

Field	Type	Null	Key	Default	Extra
TicketNO	int	NO	PRI	NULL	auto_increment
ReserveID	int	YES	MUL	NULL	
Category	varchar(10)	YES		NULL	
SeatNO	varchar(10)	NO		NULL	

Create sales table

```
57
58      -- Create Sales Table --
59      create table Sales
60      (
61      SalesID int primary key auto_increment,
62      TicketNO int,
63      Price decimal(8,2),
64      SaleDate date default(curdate()),
65      Sales_status enum("Cancelled","Sold") default "Sold",
66      constraint fr_tkno foreign key(ticketNO) REFERENCES tickets(ticketNO)
67      );
68      desc sales;
69
```

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

Field	Type	Null	Key	Default	Extra
SalesID	int	NO	PRI	NULL	auto_increment
TicketNO	int	YES	MUL	NULL	
Price	decimal(8,2)	YES		NULL	
SaleDate	date	YES		curdate()	DEFAULT_GENERATED
Sales_status	enum('Cancelled','Sold')	YES		Sold	

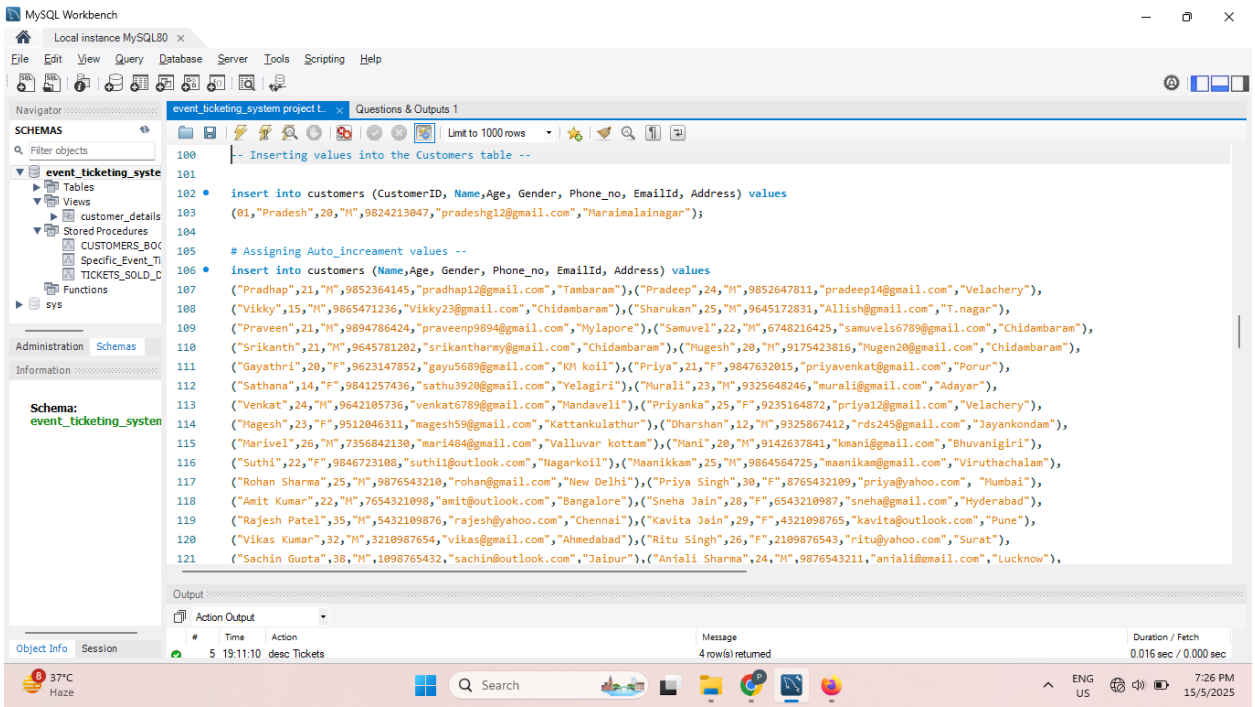
Insert values

Insert values into events table

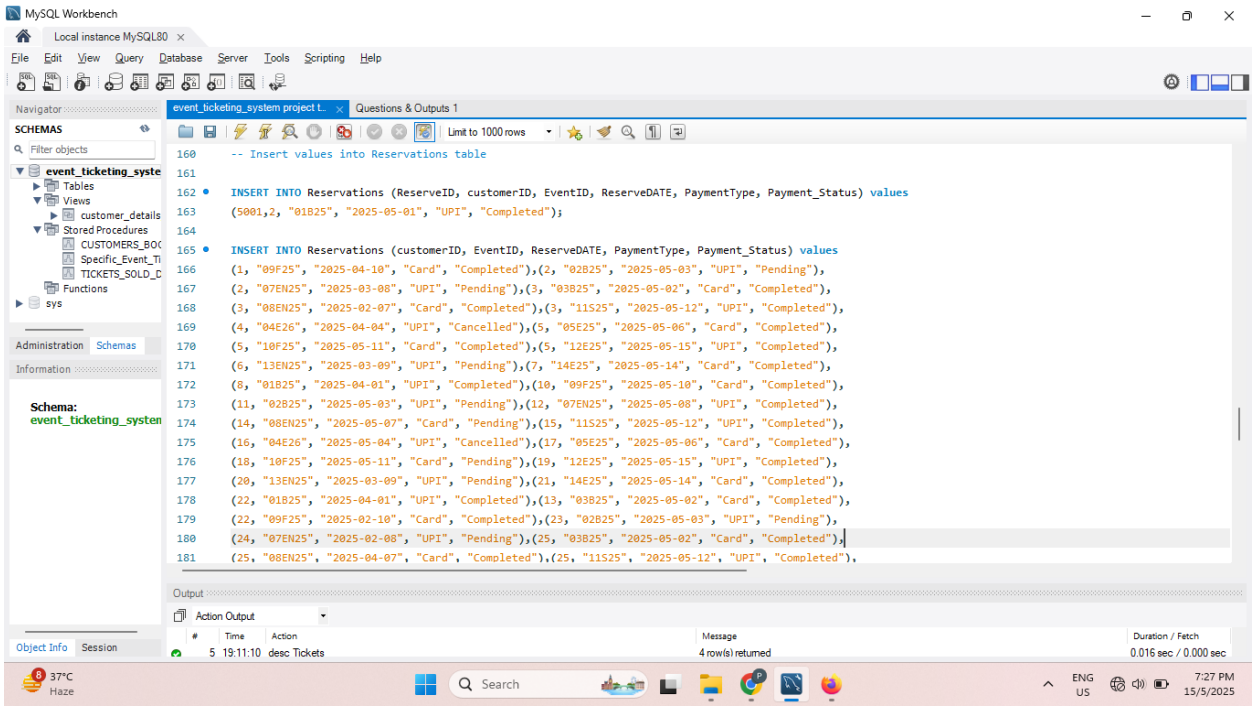
```
-- single insert statement --
insert into events(eventid, event_name,category, date, Address, Description) values
("01B25","India Business Summit 2025","Business","20-June-2025","The Leela Palace, New Delhi","Join industry leaders and experts f

-- multiple insert statement --
insert into events(eventid, event_name,category, date, Address,Description) values
("02B25","Startup India Expo 2025","Business","28-MAY-2025","Pragati Maidan, New Delhi","Improve your Business skills"),
("03B25","Corporate Leadership Summit 2025","Business","02-AUG-2025","The Taj Mahal Palace, Mumbai","Improve your leadership skill
("04E26","EduTech Conference 2025","Education","06-jan-2026","Anna conference hall, Adayar,Chennai.","Explore the latest trends an
("05E25","Career Expo 2025","Education","04-MAY-2025","Exhibition Centre, Chidhambaram","The Career Expo 2025 will feature job fai
("06E26","International Conference on Education","Education","04-MAY-2025","Jawaharlal Nehru University,Mumbai.","Share knowledge
("07EN25","Comedy Show","Entertainment","20-NOV-2025","The Comedy Club, Mumbai","Laugh out loud with India's top comedians at this
("08EN25","Dance Competition","Entertainment","22-OCT-2025","Siri Fort Auditorium, New Delhi","- Witness the best dancers in the c
("09F25","Designer Showcase 2025","Fashion","15-OCT-2025","The Oberoi, Mumbai","Get a glimpse of the latest collections from India
("10F25","Bridal Fashion Show","Fashion","26-DEC-2025","The Leela Palace, Jaipur","Witness the latest bridal fashion trends and de
("11S25"," India Open Tennis Tournament","Sports","10-JUNE-2025","R.K. Khanna Tennis Stadium, New Delhi","The India Open Tennis To
("12E25","AGRI TEC EXPO-2025","Education","29-MAY-2025","Anandha Thirumana Mahal,Viluppuram,","AGRI TEC EXPO - 2025 the objective
("13EN25","Drink meetup Chennai","Entertainment","10-MAY-2025","Lower Deck Bar & Nightclub, Chennai.","Let's meet up in Chennai fo
("14E25","Automate Intelligently","Education","09-MAY-2025","Technology Services Private Limited, Chennai.","Learn how to harness
```

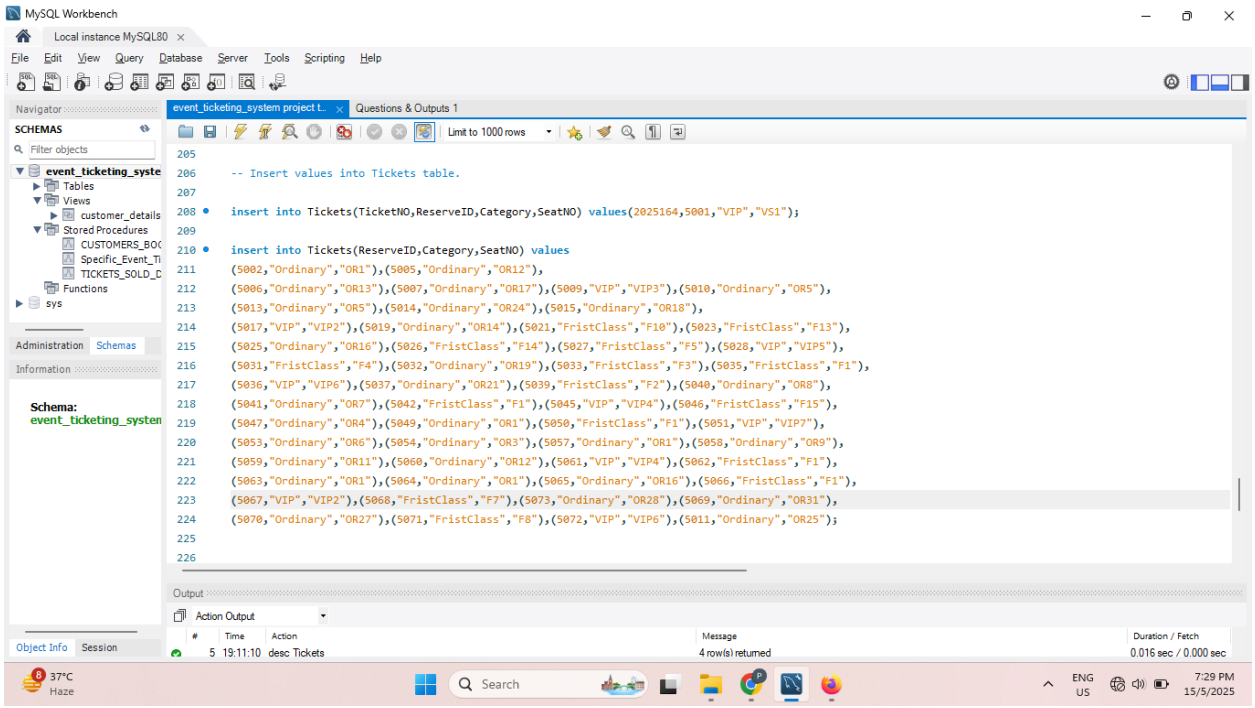
Insert values into customers table



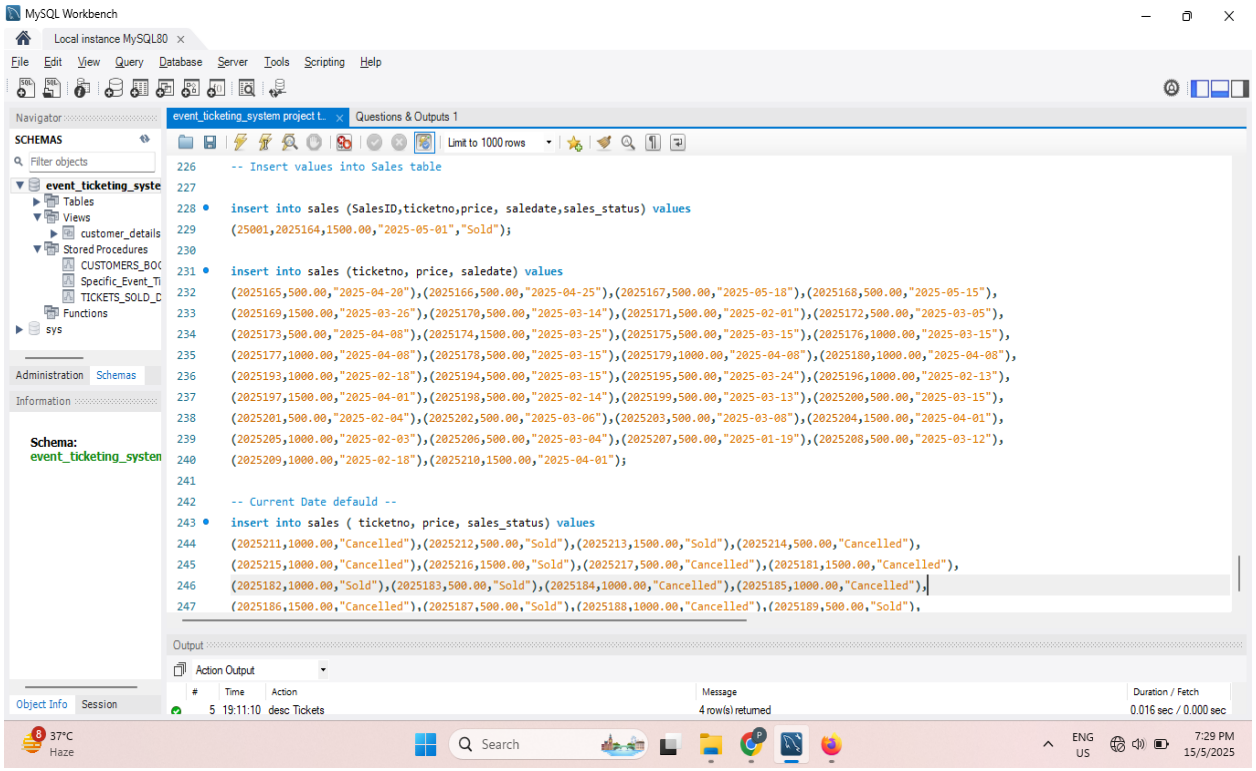
Insert values into reservations table



Insert values into tickets table



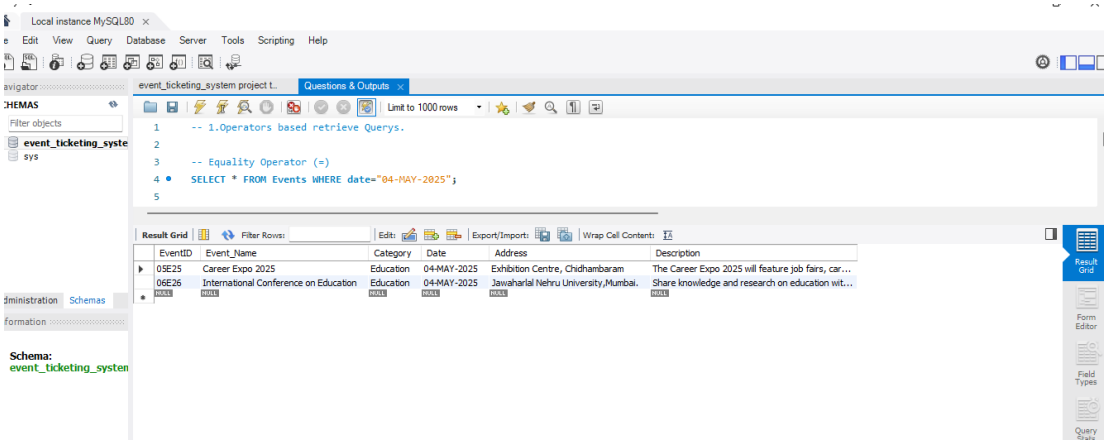
Insert values into sales table



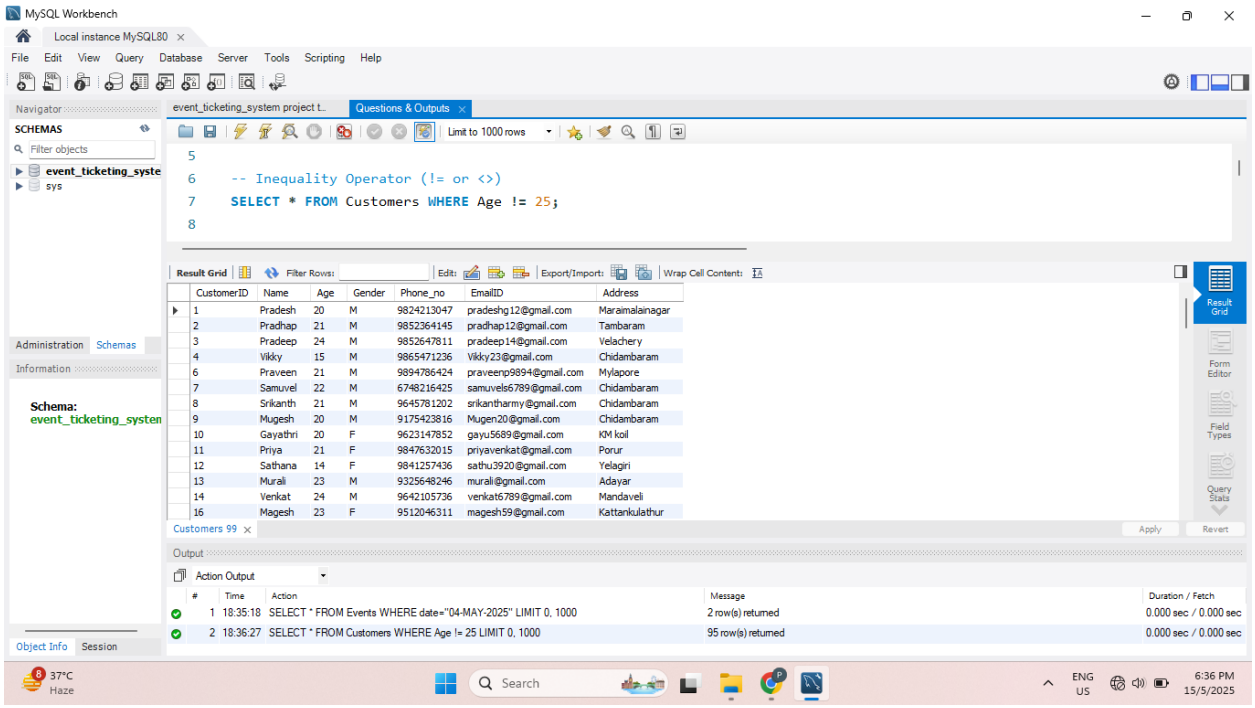
Querying THE DATABASE

Operators-Based Retrieve Queries:

Equality Operator (=)



Inequality Operator (! = or <>)



Greater Than Operator (>)

```
8
9    -- Greater Than Operator (>)
10 • SELECT * FROM Customers WHERE Age > 35;
11
```

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

CustomerID	Name	Age	Gender	Phone_no	EmailID	Address
30	Sachin Gupta	38	M	1098765432	sachin@outlook.com	Jaipur
36	Vijay Kumar	36	M	4321098766	vijay@yahoo.com	Kancheepuram, Tamil Nadu
40	Raj Kumar	37	M	9876543212	rajkumar@gmail.com	Perambalur, Tamil Nadu
42	Ramesh Kumar	39	M	7654321097	ramesh@gmail.com	Tiruvannamalai, Tamil Nadu
44	Sanjay Patel	40	M	5432109875	sanjay@outlook.com	Krishnagiri, Tamil Nadu
61	Amit Kumar	36	M	9445234569	amit@outlook.com	Kancheepuram, Tamil Nadu
67	Sachin Kumar	38	M	9445234570	sachin@outlook.com	Tiruvannamalai, Tamil Nadu
72	Rohan Singh	37	M	9445234571	rohan@yahoo.com	Chengalpattu, Tamil Nadu
79	Rohan Gupta	36	M	9745234574	rohanag@gmail.com	Thanjavur, Tamil Nadu
101	Vivek Verma	36	M	9345234577	vivekv@outlook.com	Chengalpattu, Tamil Nadu
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Less than Operator (<)

```
11
12   -- Less Than Operator (<)
13 • SELECT * FROM Customers WHERE Age < 20;
14
```

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

CustomerID	Name	Age	Gender	Phone_no	EmailID	Address
4	Vikky	15	M	9865471236	Vikky23@gmail.com	Chidambaram
12	Sathana	14	F	9841257436	sathu3920@gmail.com	Yelagiri
17	Dharshan	12	M	9325867412	rds245@gmail.com	Jayankondam
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Greater Than or Equal To Operator (>=)

```
14
15    -- Greater Than or Equal To Operator (>=)
16 •  SELECT * FROM sales WHERE price >= 1000;
17
```

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

SalesID	TicketNO	Price	SaleDate	Sales_status
25001	2025164	1500.00	2025-05-01	Sold
25006	2025169	1500.00	2025-03-26	Sold
25011	2025174	1500.00	2025-03-25	Sold
25013	2025176	1000.00	2025-03-15	Sold
25014	2025177	1000.00	2025-04-08	Sold
25016	2025179	1000.00	2025-04-08	Sold
25017	2025180	1000.00	2025-04-08	Sold
25018	2025193	1000.00	2025-02-18	Sold
25021	2025196	1000.00	2025-02-13	Sold
25022	2025197	1500.00	2025-04-01	Sold
25029	2025204	1500.00	2025-04-01	Sold
25030	2025205	1000.00	2025-02-03	Sold
25034	2025209	1000.00	2025-02-18	Sold
25035	2025210	1500.00	2025-04-01	Sold

Less Than or Equal To Operator (<=)

```
17
18    -- Less Than or Equal To Operator (<=)
19    SELECT * FROM sales WHERE price <= 600;
20
```

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

SalesID	TicketNO	Price	SaleDate	Sales_status
25002	2025165	500.00	2025-04-20	Sold
25003	2025166	500.00	2025-04-25	Sold
25004	2025167	500.00	2025-05-18	Sold
25005	2025168	500.00	2025-05-15	Sold
25007	2025170	500.00	2025-03-14	Sold
25008	2025171	500.00	2025-02-01	Sold
25009	2025172	500.00	2025-03-05	Sold
25010	2025173	500.00	2025-04-08	Sold
25012	2025175	500.00	2025-03-15	Sold
25015	2025178	500.00	2025-03-15	Sold
25019	2025194	500.00	2025-03-15	Sold
25020	2025195	500.00	2025-03-24	Sold
25023	2025198	500.00	2025-02-14	Sold
25024	2025199	500.00	2025-03-13	Sold

sales 104

“BETWEEN” Operator

```
20
21    -- BETWEEN Operator
22 •  select * from reservations where reservedate between "2025-04-01" and "2025-04-30";
23
```

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

ReserveID	CustomerID	EventID	ReserveDATE	PaymentType	Payment_Status
5002	1	09F25	2025-04-10	Card	Completed
5008	4	04E26	2025-04-04	UPI	Cancelled
5014	8	01B25	2025-04-01	UPI	Completed
5026	22	01B25	2025-04-01	UPI	Completed
5032	25	08EN25	2025-04-07	Card	Completed
5038	28	13EN25	2025-04-09	UPI	Pending
5044	32	07EN25	2025-04-08	UPI	Pending
5054	38	09F25	2025-04-10	Card	Completed
NULL	NULL	NULL	NULL	NULL	NULL

“IN” Operator

```
23
24    -- IN Operator
25 •  SELECT * FROM Customers WHERE customerid IN (20, 25, 30);
26
```

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

CustomerID	Name	Age	Gender	Phone_no	EmailID	Address
20	Suthi	22	F	9846723108	suthi1@outlook.com	Nagarkoil
25	Sneha Jain	28	F	6543210987	sneha@gmail.com	Hyderabad
30	Sachin Gupta	38	M	1098765432	sachin@outlook.com	Jaipur
NULL	NULL	NULL	NULL	NULL	NULL	NULL

“LIKE” Operator

```
26
27    # LIKE Operator
28
29 •  SELECT * FROM customers WHERE name LIKE 'pra%';
30
31
```

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

CustomerID	Name	Age	Gender	Phone_no	EmailID	Address
1	Pradesh	20	M	9824213047	pradeshg12@gmail.com	Maraimalainagar
2	Pradhap	21	M	9852364145	pradhap12@gmail.com	Tambaram
3	Pradeep	24	M	9852647811	pradeep14@gmail.com	Velachery
6	Praveen	21	M	9894786424	praveenp9894@gmail.com	Mylapore
NULL	NULL	NULL	NULL	NULL	NULL	NULL

“NOT” Operator

```
29
30    -- NOT Operator
31    SELECT * FROM reservations WHERE NOT Payment_Status = "completed";
32
```

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

ReserveID	CustomerID	EventID	ReserveDATE	PaymentType	Payment_Status
5003	2	02B25	2025-05-03	UPI	Pending
5004	2	07EN25	2025-03-08	UPI	Pending
5008	4	04E26	2025-04-04	UPI	Cancelled
5012	6	13EN25	2025-03-09	UPI	Pending
5016	11	02B25	2025-05-03	UPI	Pending
5018	14	08EN25	2025-05-07	Card	Pending
5020	16	04E26	2025-05-04	UPI	Cancelled
5022	18	10F25	2025-05-11	Card	Pending
5024	20	13EN25	2025-03-09	UPI	Pending
5029	23	02B25	2025-05-03	UPI	Pending
5030	24	07EN25	2025-02-08	UPI	Pending
5034	26	04E26	2025-03-04	UPI	Cancelled
5038	28	13EN25	2025-04-09	UPI	Pending
5043	31	02B25	2025-05-03	UPI	Pending

“AND” Operator

```
32
33    -- AND Operator
34 •  SELECT * FROM Customers WHERE Age > 38 AND Gender = 'M';
35
```

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

CustomerID	Name	Age	Gender	Phone_no	EmailID	Address
42	Ramesh Kumar	39	M	7654321097	ramesh@gmail.com	Tiruvannamalai, Tamil Nadu
44	Sanjay Patel	40	M	5432109875	sanjay@outlook.com	Krishnagiri, Tamil Nadu
NULL	NULL	NULL	NULL	NULL	NULL	NULL

“OR” Operator

```
35
36    # OR Operator
37 •  SELECT * FROM Customers WHERE Age <=18 OR Gender = 'F';
38
```

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

CustomerID	Name	Age	Gender	Phone_no	EmailID	Address
4	Vikky	15	M	9865471236	Vikky23@gmail.com	Chidambaram
10	Gayathri	20	F	9623147852	gayu5689@gmail.com	KM koil
11	Priya	21	F	9847632015	priyavenkat@gmail.com	Porur
12	Sathana	14	F	9841257436	sathu3920@gmail.com	Yelagiri
15	Priyanka	25	F	9235164872	priya12@gmail.com	Velachery
16	Magesh	23	F	9512046311	magesh59@gmail.com	Kattankulathur
17	Dharshan	12	M	9325867412	rds245@gmail.com	Jayankondam
20	Suthi	22	F	9846723108	suthi1@outlook.com	Nagarkoil
23	Priya Singh	30	F	8765432109	priya@yahoo.com	Mumbai
25	Sneha Jain	28	F	6543210987	sneha@gmail.com	Hyderabad

Customers 1 ×

Subquery-Based Queries:

1. Get the details of all events that have no tickets sold.

```
39    -- SUB QUERY--
40    #1.Get the details of all events that have no tickets sold.
41
42    select * from events where eventId not in (select e.eventID from events e
43    left join reservations r on e.eventid=r.eventId
44    where r.payment_status="completed"
45    group by e.eventid);
46
```

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

EventID	Event_Name	Category	Date	Address	Description
02B25	Startup India Expo 2025	Business	28-MAY-2025	Pragati Maidan, New Delhi	Improve your Business skills
04E26	EduTech Conference 2025	Education	06-jan-2026	Anna conference hall, Adayar,Chennai.	Explore the latest trends and technologies in ed...
13EN25	Drink meetup Chennai	Entertainment	10-MAY-2025	Lower Deck Bar & Nightclub, Chennai.	Let's meet up in Chennai for some drinks and go...
NULL	NULL	NULL	NULL	NULL	NULL

2. Customers who booked tickets for more than one event.

```
49
50    # 2.Customers who Booked Tickets for More than One Event.
51
52    WITH customerid as
53    (select customerid, count(eventId) as Count_of_events from reservations
54    group by CustomerID having Count_of_events >1)
55
56    select * from customers where customerid in (select customerid from customerid);
57
```

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

CustomerID	Name	Age	Gender	Phone_no	EmailID	Address
1	Pradesh	20	M	9824213047	pradeshg12@gmail.com	Maraimalainagar
2	Pradhap	21	M	9852364145	pradhap12@gmail.com	Tambaram
3	Pradeep	24	M	9852647811	pradeep14@gmail.com	Velachery
5	Sharukan	25	M	9645172831	Allish@gmail.com	T.nagar
22	Rohan Sharma	25	M	9876543210	rohan@gmail.com	New Delhi
25	Sneha Jain	28	F	6543210987	sneha@gmail.com	Hyderabad
27	Kavita Jain	29	F	4321098765	kavita@outlook.com	Pune
30	Sachin Gupta	38	M	1098765432	sachin@outlook.com	Jaipur
33	Pooja Singh	27	F	7654321099	pooja@yahoo.com	Cuddalore, Tamil Nadu

Result 17

Aggregate Function Queries:

1. Find the total number of events in each category.

```
54    -- AGGREGATE FUNCTIONS --
55
56    -- 1.Find the total number of events in each category --
57    select Category,count(event_name) from events group by Category;
58
```

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

Category	count(event_name)
Business	3
Education	5
Entertainment	3
Fashion	2
Sports	5

2. Find the number of male and female customers.

```
58
59    -- 2.Find the number of male and female customers.(aggrecate functions)
60    select gender,count(gender) No_of_customers from customers
61    group by gender;
62
```

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

gender	No_of_customers
M	58
F	47

3. What are the top 3 days with the highest revenue for ticket sales?

```
62
63    # 3.What are the top 3 days with the highest revenue for the ticketsales?.
64
65    select saledate, sum(price) as total_sales_per_day from sales
66    group by SaleDate order by total_sales_per_day desc limit 3;
67
```

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

saledate	total_sales_per_day
2025-05-13	18000.00
2025-04-01	4500.00
2025-04-08	3500.00

Join-Based Queries:

1. Get the details of all customers who have made a reservation.

```
71
72    # 1.Get the details of all customers who have made a reservation.(joins)
73
74 •  select r.ReserveID,c.customerId, c.name, c.age, c.gender, c.phone_no, c.emailId, c.address from
75    reservations r left join customers c on r.customerId=c.customerId
76    order by r.ReserveID;
```

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

ReserveID	customerId	name	age	gender	phone_no	emailId	address
5001	2	Pradhap	21	M	9852364145	pradhap12@gmail.com	Tambaram
5002	1	Pradesh	20	M	9824213047	pradeshg12@gmail.com	Maraimalainagar
5003	2	Pradhap	21	M	9852364145	pradhap12@gmail.com	Tambaram
5004	2	Pradhap	21	M	9852364145	pradhap12@gmail.com	Tambaram
5005	3	Pradeep	24	M	9852647811	pradeep14@gmail.com	Velachery
5006	3	Pradeep	24	M	9852647811	pradeep14@gmail.com	Velachery
5007	3	Pradeep	24	M	9852647811	pradeep14@gmail.com	Velachery
5008	4	Vikky	15	M	9865471236	Vikky23@gmail.com	Chidambaram
5009	5	Sharukan	25	M	9645172831	Allish@gmail.com	T.nagar
5010	5	Sharukan	25	M	9645172831	Allish@gmail.com	T.nagar
5011	5	Sharukan	25	M	9645172831	Allish@gmail.com	T.nagar

Result 113

Join and Aggregate Function Queries:

1. Calculate the total revenue generated from ticket sales for each event.

```
81    # 1.Calculate the total revenue generated from ticket sales for each event.
82
83 •  select e.eventid, e.event_name, sum(s.price) as Total_sales_of_each_event
84    from sales s join tickets t on s.ticketno=t.ticketno
85    join reservations r on r.ReserveID=t.ReserveID
86    join events e on e.eventid=r.EventID
87    where s.Sales_status = "sold"
88    group by e.Event_Name
89    order by e.EventID;
```

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

eventid	event_name	Total_sales_of_each_event
01B25	India Business Summit 2025	3500.00
03B25	Corporate Leadership Summit 2025	2500.00
05E25	Career Expo 2025	3000.00
06E26	International Conference on Education	500.00
07EN25	Comedy Show	3000.00
08EN25	Dance Competition	2000.00
09F25	Designer Showcase 2025	2500.00
10F25	Bridal Fashion Show	1500.00
11S25	India Open Tennis Tournament	1500.00
12E25	AGRI TEC EXPO-2025	3000.00

Result 114

2. Find the average price of tickets sold for each category.

```
91    # 2.Find the average price of tickets sold for each category.
92
93 •  select e.Category, avg(s.price) as Total_sales_of_each_event
94    from sales s join tickets t on s.ticketno=t.ticketno
95    join reservations r on r.ReserveID=t.ReserveID
96    join events e on e.eventid=r.EventID
97    where s.Sales_status = "sold"
98    group by e.Category;
99
```

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

Category	Total_sales_of_each_event
Business	857.142857
Fashion	666.666667
Entertainment	1000.000000
Sports	714.285714
Education	863.636364

3. Which events have the top two highest revenues?

```
100   # 3.Which events have the top two highest revenues?.
101
102 •  select e.eventId, e.event_name, sum(s.price) Total_Income_Each_Event from sales s
103   join tickets t on t.TicketNO=s.TicketNO
104   join reservations r on r.reserveid=t.reserveid
105   join events e on r.eventid=e.eventid
106   group by e.eventid order by Total_Income_Each_Event desc limit 2;
107
```

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

eventId	event_name	Total_Income_Each_Event
14E25	Automate Intelligently	6000.00
09F25	Designer Showcase 2025	4000.00

4. Find the total number of events in each category.

```
54      -- AGGREGATE FUNCTIONS --
55
56      -- 1.Find the total number of events in each category --
57  •   select Category,count(event_name) from events group by Category;
58
```

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

Category	count(event_name)
Business	3
Education	5
Entertainment	3
Fashion	2
Sports	5

Advanced Queries

Stored Procedure Queries:

1. Find all tickets sold for a specific event.

```
118     -- 1.Find all tickets sold for a specific event.(Stored Procedure Method & SUB QUERY)
119
120     DELIMITER $$
121 •   CREATE PROCEDURE TICKETS_SOLD_DETAILS(IN EVENT_NAME VARCHAR(50))
122     BEGIN
123         select * from sales where ticketno in (select ticketno from tickets where reserveId in
124             (select r.reserveId from reservations r left join events e on e.eventId=r.eventId
125               where e.event_name=event_name and r.payment_status = "completed"))
126                 and sales_status = "sold";
127     END $$
128     DELIMITER ;
129 •   CALL TICKETS_SOLD_DETAILS("India Business Summit 2025");
130 •   CALL TICKETS_SOLD_DETAILS("Comedy Show");
```

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

SalesID	TicketNO	Price	SaleDate	Sales_status
25001	2025164	1500.00	2025-05-01	Sold
25009	2025172	500.00	2025-03-05	Sold
25016	2025179	1000.00	2025-04-08	Sold
25051	2025189	500.00	2025-05-13	Sold

2. Get the details of all events for which a specific customer has made a reservation.

```
133    -- 2.Get the details of all events for which a specific customer has made a reservation with "STORED PROCEDURE".
134
135    DELIMITER $$
136    CREATE PROCEDURE CUSTOMERS_BOOKED_EVENTS_DETAILS(IN CUSTOMERID INT)
137    BEGIN
138    select c.customerid, c.name, E.EventID, E.Event_Name, E.Category, E.Date, E.Address, E.Description from customers c
139        join reservations r on c.customerid=r.customerid
140            join events e on e.eventid=r.eventid
141                where c.customerid=CUSTOMERID;
142    END $$
143    DELIMITER ;
144
145    call CUSTOMERS_BOOKED_EVENTS_DETAILS(5);
```

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

customerid	name	EventID	Event_Name	Category	Date	Address	Description
5	Sharukan	05E25	Career Expo 2025	Education	04-MAY-2025	Exhibition Centre, Chidhambaram	The Career Expo 2025 will feature job fairs, car…
5	Sharukan	10F25	Bridal Fashion Show	Fashion	26-DEC-2025	The Leela Palace, Jaipur	Witness the latest bridal fashion trends and des…
5	Sharukan	12E25	AGRI TEC EXPO-2025	Education	29-MAY-2025	Anandha Thirumana Mahal,Viluppuram,	AGRI TEC EXPO - 2025 the objective of this exp…

3. Retrieve the details of all customers who have purchased tickets for a specific event.

```
149    -- 3.Retrieve the details of all customers who have purchased tickets for a specific event with "STORED PROCEDURE".
150
151    DELIMITER $$
152    CREATE PROCEDURE Specific_Event_Ticket_Purchase_Customer_Information(IN EVENTID INT)
153    BEGIN
154    select e.eventID,C.CustomerID, C.Name, C.Age, C.Gender, C.Phone_no, C.EmailID, C.Address from customers c
155        join reservations r on c.customerid=r.customerid
156          join events e on e.eventid=r.eventid where e.eventid=EVENTID;
157    END $$
158    DELIMITER ;
159
160    CALL Specific_Event_Ticket_Purchase_Customer_Information("07EN25");
161    CALL Specific_Event_Ticket_Purchase_Customer_Information("17S25");
```

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

eventID	CustomerID	Name	Age	Gender	Phone_no	EmailID	Address
07EN25	2	Pradhap	21	M	9852364145	pradhap12@gmail.com	Tambaram
07EN25	12	Sathana	14	F	9841257436	sathu3920@gmail.com	Yelagiri
07EN25	24	Amit Kumar	22	M	7654321098	amit@outlook.com	Bangalore
07EN25	32	Suresh Kumar	31	M	8765432108	suresh@gmail.com	Erode, Tamil Nadu
07EN25	40	Raj Kumar	37	M	9876543212	rajkumar@gmail.com	Perambalur, Tamil Nadu

Result 125

CTE and Window Function Queries:

1. Who was the first customer to purchase a ticket for each event?

```
166     -- 1.Who was the first customer to purchase a ticket for each event (useing CTE & WINDOW function).
167
168 •   WITH event_first_booked_date as (
169     select c.CustomerID, c.Name, c.Age, c.Gender, c.Phone_no, c.EmailID, c.Address,R.ReserveID,
170     e.EventID, r.ReserveDATE, r.PaymentType, r.Payment_Status,
171     row_number() over(partition by EventID order by ReserveDATE) as rdate from reservations r
172         join customers c on r.CustomerID=c.CustomerID
173          join events e on e.EventID=r.eventid)
174
175     select EventID,CustomerID, Name, Age, Gender, Phone_no, EmailID, Address
176         from event_first_booked_date where rdate=1 and payment_status ="completed";
```

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

EventID	CustomerID	Name	Age	Gender	Phone_no	EmailID	Address
01B25	30	Sachin Gupta	38	M	1098765432	sachin@outlook.com	Jaipur
03B25	33	Pooja Singh	27	F	7654321099	pooja@yahoo.com	Cuddalore, Tamil Nadu
05E25	5	Sharukan	25	M	9645172831	Allish@gmail.com	T.nagar
06E26	65	Vikas Singh	34	M	9945234569	vikas@gmail.com	Perambalur, Tamil Nadu
08EN25	33	Pooja Singh	27	F	7654321099	pooja@yahoo.com	Cuddalore, Tamil Nadu
09F25	22	Rohan Sharma	25	M	9876543210	rohan@gmail.com	New Delhi
10F25	27	Kavita Jain	29	F	4321098765	kavita@outlook.com	Pune
11S25	25	Sneha Jain	28	F	6543210987	sneha@gmail.com	Hyderabad
12E25	5	Sharukan	25	M	9645172831	Allish@gmail.com	T.nagar
15S25	61	Amit Kumar	36	M	9445234569	amit@outlook.com	Kancheepuram, Tamil Nadu

Result 128

2. How many tickets were sold for each event?

```
179     -- 2.How many tickets were sold for each event?  (using CTE & WINDOW Function).
180
181 •   WITH total_count as(
182     select e.EventID, e.Event_Name, s.SaleDate, count(r.ReserveID)over(partition by EventId) as Tickets_sales_count,
183     row_number() over(partition by Event_Name order by SaleDate desc) as Rownum from sales s
184     join tickets t on t.TicketNO=s.TicketNO
185     join reservations r on r.reserveid=t.reserveid
186     join events e on r.eventid=e.eventid)
187
188     select Eventid, Event_name, Tickets_Sales_Count from total_count where rownum=1;
189
```

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

Eventid	Event_name	Tickets_Sales_Count
11S25	India Open Tennis Tournament	4
12E25	AGRI TEC EXPO-2025	4
14E25	Automate Intelligently	7
10F25	Bridal Fashion Show	3
05E25	Career Expo 2025	4
07EN25	Comedy Show	2
03B25	Corporate Leadership Summit 2025	4
08EN25	Dance Competition	3
09F25	Designer Showcase 2025	5
01B25	India Business Summit 2025	5

Result 129

View-Based Queries:

1. Create a view for ticket booking customer details.

```
190
191     -- USING VIEW --
192
193     -- 1.Create view for Ticket Booking Customer Details.(view)
194 •   create view  Customer_Details_for_Booked_Tickets as
195     select r.ReserveID,c.customerId, c.name, c.age, c.gender, c.phone_no, c.emailId, c.address from
196     reservations r left join customers c on r.customerId=c.customerId
197     order by r.ReserveID;
198
199 •   select * from Customer_Details_for_Booked_Tickets;
200
```

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

ReserveID	customerId	name	age	gender	phone_no	emailId	address
5001	2	Pradhap	21	M	9852364145	pradhap12@gmail.com	Tambaram
5002	1	Pradesh	20	M	9824213047	pradeshg12@gmail.com	Maraimalainagar
5003	2	Pradhap	21	M	9852364145	pradhap12@gmail.com	Tambaram
5004	2	Pradhap	21	M	9852364145	pradhap12@gmail.com	Tambaram
5005	3	Pradeep	24	M	9852647811	pradeep14@gmail.com	Velachery
5006	3	Pradeep	24	M	9852647811	pradeep14@gmail.com	Velachery
5007	3	Pradeep	24	M	9852647811	pradeep14@gmail.com	Velachery
5008	4	Vikky	15	M	9865471236	Vikky23@gmail.com	Chidambaram
5009	5	Sharukan	25	M	9645172831	Allish@gmail.com	T.nagar
5010	5	Sharukan	25	M	9645172831	Allish@gmail.com	T.nagar