EVENT TICKETING SYSTEM

S.VIJAYALAKSHMI

1.WHERE Clause -- get events happening at "city gallery"

SELECT * FROM Events WHERE Location = 'city gallery';

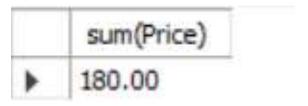| EventID	EventName	EventDate	Location	TotalSeats	TicketPrice	CreatedAt
3	Art Exhibit	2024-07-05 10:00:00	City Gallery	200	15.00	2024-12-23 14:44:22
NULL	NULL	NULL	NULL	NULL	NULL	NULL

2.ORDER BY -- List tickets sorted by price in descending order

SELECT * FROM Ticket ORDER BY Price DESC;

TicketID	EventID	TicketType	Price
1	1	VIP	100.00
2	1	General	50.00
3	1	Balcony	30.00
NULL	NULL	NULL	NULL

3.How can you calculate the total cost of all tickets in the database?

select sum(Price) from Ticket;

	sum(Price)
▶	180.00

4.Show the names in uppercase:

select ucase(FullName) from Customers;

ucase(FullName)
ARUN
BALAJI
JEYS
DIVYA
ERLIN
GOWTHAM
ASHOK
HENRY
YOGI
VIJI

5. Retrive the Maxmium EventId From a Events Table using Multiple Subquery:

select * from Events where EventID =(select max(EventID) from Events);

	EventID	EventName	EventDate	Location	TotalSeats	TicketPrice	CreatedAt
▶	7	Music Fest	2024-11-25 12:00:00	Central Park	2000	20.00	2024-12-23 14:44:22
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

6.List Out The eventname eventid used in subquery:

select EventName,EventID,(select min(EventID) from Events) from Events;

EventName	EventID	(select min(EventID) from Events)
Concert 2024	1	1
Festival 2024	2	1
Art Exhibit	3	1
Comedy Night	4	1
Tech Summit	5	1
Play Premiere	6	1
Music Fest	7	1

7.Retrieve all reservations with customer and event details

SELECT R.ReservationID, C.FullName, E.EventName, R.ReservedSeats FROM Reservations R JOIN Customers C ON R.CustomerID = C.CustomerID JOIN Events E ON R.EventID = E.EventID;

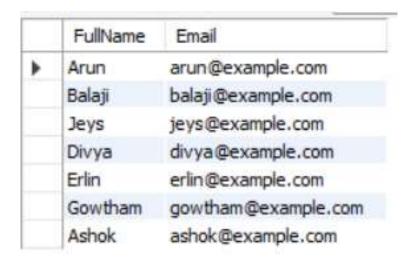| ReservationID	FullName	EventName	ReservedSeats
1	Arun	Concert 2024	2
2	Balaji	Concert 2024	3
3	Jeys	Festival 2024	1
4	Divya	Festival 2024	2
5	Erlin	Art Exhibit	4
6	Gowtham	Comedy Night	1
7	Ashok	Tech Summit	2

8.Get all customers, including those without reservations

SELECT C.CustomerID, C.FullName, R.ReservationID FROM Customers
CLEFT JOIN Reservations R ON C.CustomerID = R.CustomerID;

CustomerID	FullName	ReservationID
1	Arun	1
2	Balaji	2
3	Jeys	3
4	Divya	4
5	Erlin	5
6	Gowtham	6
7	Ashok	7
8	Henry	NULL
9	Yogi	NULL
10	Viji	NULL

9.Query Customers Who Reserved Tickets

SELECT DISTINCT C.FullName, C.Email FROM Customers C JOIN
Reservations R ON C.CustomerID = R.CustomerID;

FullName	Email
Arun	arun@example.com
Balaji	balaji@example.com
Jeys	jeys@example.com
Divya	divya@example.com
Erlin	erlin@example.com
Gowtham	gowtham@example.com
Ashok	ashok@example.com

10.Create a view to display all reservations with event details

CREATE VIEW ReservationDetails AS SELECT
R.ReservationID, C.FullName, E.EventName, R.ReservedSeats,
R.ReservationDate FROM Reservations R JOIN Customers C
ON R.CustomerID = C.CustomerID JOIN Events E ON
R.EventID = E.EventID;

Query the View

SELECT * FROM ReservationDetails;

ReservationID	FullName	EventName	ReservedSeats	ReservationDate
1	Arun	Concert 2024	2	2024-12-23 14:44:34
2	Balaji	Concert 2024	3	2024-12-23 14:44:34
3	Jeys	Festival 2024	1	2024-12-23 14:44:34
4	Divya	Festival 2024	2	2024-12-23 14:44:34
5	Erlin	Art Exhibit	4	2024-12-23 14:44:34
6	Gowtham	Comedy Night	1	2024-12-23 14:44:34
7	Ashok	Tech Summit	2	2024-12-23 14:44:34

11.Calculate Total Sales for a Ticket Type

```
DELIMITER $$
CREATE PROCEDURE GetTotalSales(IN TicketType VARCHAR(50))
BEGIN
    SELECT T.TicketType, SUM(S.TotalPrice) AS TotalRevenue
    FROM Sales S    JOIN Ticket T ON S.TicketID = T.TicketID
    WHERE T.TicketType = TicketType   GROUP BY T.TicketType;

END $$
DELIMITER ;
```

Call the Procedure:

```
CALL GetTotalSales('VIP');
```

TicketType	TotalRevenue
VIP	300.00