

## -- 1. Booking tickets

```
INSERT INTO Client(phoneNo) VALUES
(44903456789)
```

phoneNo

-----

44903456789

44913456789

44923456789

44933456789

44943456789

44953456789

44963456789

44973456789

44983456789

44993456789

(10 rows affected)

Completion time: 2021-12-12T23:45:01.5067366+02:00

```
INSERT INTO Booking(bookingNo, bookingDate, expireDate, noOfTickets, bookingStatus, eventId,
clientPhoneNo) VALUES
```

```
(12,'2022-01-11', '2022-01-14', 2, 'B', 3, 44903456789)
```

| bookingNo | bookingDate | expireDate | noOfTickets | bookingStatus | eventId | clientPhoneNo |
|-----------|-------------|------------|-------------|---------------|---------|---------------|
| -----     | -----       | -----      | -----       | -----         | -----   | -----         |
| 12        | 2022-01-11  | 2022-01-14 | 2           | B             | 3       | 44903456789   |

(1 row affected)

Completion time: 2021-12-12T23:48:35.0258795+02:00

## --2. Changing the number of tickets in a booking

```
UPDATE Booking SET noOfTickets = 10 WHERE bookingNo = 3
```

| bookingNo | bookingDate | expireDate | noOfTickets | bookingStatus | eventId | clientPhoneNo |
|-----------|-------------|------------|-------------|---------------|---------|---------------|
| -----     | -----       | -----      | -----       | -----         | -----   | -----         |
| 3         | 2022-01-15  | 2022-01-18 | 10          | P             | 2       | 44973456789   |

(1 row affected)

Completion time: 2021-12-12T23:46:30.6580793+02:00

## --3. Cancelling a ticket booking

```
UPDATE Booking SET bookingStatus = 'C' WHERE bookingNo = 5
```

| bookingNo | bookingDate | expireDate | noOfTickets | bookingStatus | eventId | clientPhoneNo |
|-----------|-------------|------------|-------------|---------------|---------|---------------|
|-----------|-------------|------------|-------------|---------------|---------|---------------|

```
-----
5          2022-01-02  2022-01-05  1          C          1          44913456789
```

(1 row affected)

Completion time: 2021-12-12T23:49:48.6874551+02:00

**--4. Changing the status of booking to sold when tickets are purchased(the booking is payed for)**

UPDATE Booking SET bookingStatus = 'P' WHERE bookingNo = 7

```
bookingNo  bookingDate  expireDate  noOfTickets  bookingStatus  eventId  clientPhoneNo
-----
7          2022-01-02  2022-01-05  1          P          3          44933456789
```

(1 row affected)

Completion time: 2021-12-12T23:53:21.9588955+02:00

**--5. Removing unpurchased bookings from the database after three days from booking**  
DELETE FROM Booking WHERE bookingStatus = 'B' AND expireDate < (SELECT CAST(GETDATE() AS DATE))

**--6. Cancelling an event(in an extreme exceptional case)**

UPDATE Event SET status = 'C' WHERE eventId = 2

```
eventId  eventName          eventDate  price  status  venueId
-----
2        Yorkshire Yodelling  2022-02-25  19.99  C        2
```

(1 row affected)

Completion time: 2021-12-12T23:55:52.2851440+02:00

**--7.Refunding a client in a case of a cancelled event.**

UPDATE Booking SET bookingStatus = 'R' FROM Booking  
JOIN Event ON Booking.eventId = Event.eventId  
WHERE bookingStatus = 'P' AND Event.status = 'C'

(2 rows affected)

Completion time: 2021-12-12T23:59:54.3379513+02:00

**--8. What is Doja Cat's contact email?**

SELECT email FROM Artist WHERE fullName = 'Doja Cat'

```
email
-----
dojacat@email.com
```

(1 row affected)

Completion time: 2021-12-13T00:00:37.4867096+02:00

--9. How many tickets are there left for Land del Rey's concert on 5.9.2022?

-- Check artistId of Land del Reys--

```
SELECT artistId FROM Artist WHERE fullName = 'Land del Reys'
```

```
artistId
```

```
-----
```

```
1
```

```
(1 row affected)
```

Completion time: 2021-12-13T00:01:20.0837846+02:00

-- Calculate the number of tickets available = Capacity - the number of purchased tickets--

```
SELECT artistId FROM Artist WHERE fullName = 'Land del Reys' --1--
```

-- Calculate the number of tickets available = Capacity - the number of purchased and booked tickets--

```
SELECT (SELECT SUM(Venue.capacity) FROM Venue
```

```
JOIN Event ON Event.venueId = Venue.venueId
```

```
JOIN Artist_Event ON Event.eventId = Artist_Event.eventId
```

```
WHERE Artist_Event.artistId = 1) - (SELECT COUNT(bookingStatus) FROM Booking
```

```
JOIN Artist_Event ON Artist_Event.eventId = Booking.eventId
```

```
WHERE (bookingStatus = 'B' OR bookingStatus = 'P') AND Booking.eventId = (SELECT  
Artist_Event.eventId WHERE artistId = 1))
```

```
118
```

```
(1 row affected)
```

Completion time: 2021-12-13T00:29:59.6608273+02:00

--10. What dance performances are coming up this month?

```
SELECT Event.eventName, Event.eventDate FROM Event
```

```
WHERE eventDate < EOMONTH (GETDATE(),0) AND eventDate > GETDATE()
```

```
eventName
```

```
eventDate
```

```
-----
```

```
(0 rows affected)
```

Completion time: 2021-12-13T00:31:37.5671698+02:00

--11. When will Olivia Rodrigo perform in Paisley and what are her special requests for catering?

```
SELECT Event.eventDate, Artist.specialRequests FROM Event
```

```
JOIN Artist_Event ON (Artist_Event.eventId = Event.eventId)
```

```
JOIN Artist ON ( Artist.artistId = Artist_Event.artistId)
```

```
WHERE Artist.fullName = 'Olivia Rodrigo' AND Event.eventDate > (SELECT CAST(GETDATE() AS DATE))
```

```
eventDate  specialRequests
```

```
-----
```

```
2022-03-25 Must supply hazmat suit with christmas lights inside
```

```
(1 row affected)
```

Completion time: 2021-12-13T00:32:11.8648938+02:00

**--12 How many tickets have been sold this far to Dua Lipa's dance performance 'Stormbringer 2022' that takes place on 2.6.2022?**

```
SELECT COUNT(*) AS "Duo Lipa Show" FROM Booking
JOIN Artist_Event ON (Artist_Event.eventId = Booking.eventId)
JOIN Artist ON (Artist.artistId = Artist_Event.artistId)
WHERE Artist.fullName = 'Dua Lipa' AND Booking.bookingStatus = 'P'
```

```
Duo Lipa Show
-----
2
```

(1 row affected)

Completion time: 2021-12-13T00:33:10.8187144+02:00

**--13 How much money has the Paisley Event Association got from sold tickets this year?**

```
WITH TempTable(price, noOfTickets)
AS (SELECT E1.price, COUNT(B1.bookingStatus)
FROM Event as E1
JOIN Booking AS B1 ON (E1.eventId = B1.eventId)
WHERE B1.bookingStatus = 'P'
GROUP BY E1.price)
SELECT SUM(price*noOfTickets) AS "Total"
FROM TempTable
```

```
Total
-----
119.96
```

(1 row affected)

Completion time: 2021-12-13T00:33:39.5586278+02:00

**-- 14 Which artist has sold the highest number of tickets this year. Please notice that the artist can have performed several times this year. All the artist's performances count here.**

```
WITH TempT (artistId, noOfTickets)
AS ( SELECT AE.artistId, COUNT(B1.bookingStatus)
FROM Artist_Event AS AE
JOIN Booking AS B1 ON (B1.eventId = AE.eventId)
GROUP BY AE.artistId)
SELECT Artist.fullName AS "The arist with the best selling show" FROM Artist
JOIN TempT ON (Artist.artistId = TempT.artistId)
WHERE TempT.noOfTickets = (SELECT max(noOfTickets) FROM TempT)
```

```
The arist with the best selling show
-----
Dua Lipa
```

(1 row affected)

Completion time: 2021-12-13T00:34:31.9476868+02:00