

```
use ticketbooking_feb_hex_24;
```

```
-- Ticket Booking Assignment -- PART 4
```

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

```
select *  
from event  
where id NOT IN (select e.id  
from event e JOIN booking b ON e.id = b.event_id);
```

```
-- using manual mapping
```

```
select *  
from event  
where id NOT IN (select e.id  
from event e, booking b where e.id = b.event_id);
```

```
-- Task 4
```

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

```
/*
```

```
projection: ticket price of event
```

```
criteria: venue
```

```
*/
```

```
select v.venue_name, AVG(e.ticket_price) as Average_Ticket_price  
from venue v JOIN event e ON v.id=e.venue_id  
group by v.venue_name;
```

```
/*
```

venue_name	Average_Ticket_price
chennai	3500

mumbai 8000

pondicherry 600

\*/

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

/\*

Analysis: If (total\_seats-available seats) > (total\_seats/2) -- this event shd be part of RS

(320-270) > (320/2) -- this will not be displayed

\*/

select \*

from event

where (total\_seats-available\_seats) > (total\_seats/2);

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

/\*

Analysis: tickets\_sold = (total\_seats-available seats)

\*/

select event\_name, SUM(total\_seats-available\_seats) as Tickets\_Sold

from event

group by event\_name;

-- 4. Find Customer Who Have Not Booked Any Tickets Using a NOT EXISTS Subquery

/\* Project : customer

condition: booking table \*/

select \*

from customer

where id NOT IN (select distinct c.id

from customer c JOIN booking b ON c.id = b.customer\_id);

```
/*  
    7      frodo baggins  frodo@lotr.com      35454  
*/
```

-- EXISTS and NOT-EXISTS

```
select *
```

```
from venue;
```

-- we want the above query to display results if and only if the below query returns atleast 1 record

```
select *
```

```
from event
```

```
where total_seats>27000; -- 1 row
```

```
select *
```

```
from venue
```

```
where EXISTS (select *
```

```
from event
```

```
where total_seats>29000);
```

-- EXISTS: for the outer query to run and show result, the inner query must return atleast 1 record.

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

```
select event_name, SUM(total_seats-available_seats) as Total_tickets_sold
```

```
from event
```

```
group by event_name;
```

```
select dt.event_name, SUM(dt.total_seats-dt.available_seats) as Total_tickets_sold
```

```
from (select * from event) as dt
```

```
group by event_name;
```

-- Display events with number of tickets\_sold. consider those events where venue is in given list  
['mumbai','chennai']

```
select event_name, SUM(total_seats-available_seats) as Total_tickets_sold
from ( select event_name,total_seats,available_seats
      from event e JOIN venue v ON e.venue_id=v.id
      where venue_name IN ('mumbai','chennai')) as dt
group by event_name;
```

```
select event_name, SUM(total_seats-available_seats) as Total_tickets_sold
from event e JOIN venue v ON e.venue_id=v.id
where venue_name IN ('mumbai','chennai')
group by event_name;
```

-- NOT IN , EXISTS-NOT EXISTS , Query in From statement - driven table/virtual

-- Calculate the Total Revenue Generated by Events for Each Customer Using a Correlated Subquery

```
select c.customer_name,SUM(total_cost)
from booking b JOIN customer c ON b.customer_id = c.id
group by c.customer_name;
```