**SQL Assignment 1**

**Q1.**

select

book\_ref,

total\_amount,

to\_char(book\_date, ‘YYYY-MON-DD') book\_date

from bookings.bookings

**Q2.**

select

b.ticket\_no,

boarding\_no,

seat\_no,

passenger\_id,

passenger\_name

from bookings.tickets t

inner join bookings.boarding\_passes b

on t.ticket\_no = b.ticket\_no

**Q3.**

select

seat\_no,

rank() over(order by count(seat\_no))

from bookings.boarding\_passes

group by 1

limit 1

Ans. 49C

**Q4**

select \* from

(

select \*,

rank() over(partition by month\_name order by amount desc) amount\_rank

from

(select

to\_char(book\_date, 'MON-YY') month\_name,

passenger\_id,

passenger\_name,

sum(total\_amount) amount

from bookings.bookings b

inner join bookings.tickets t

on b.book\_ref=t.book\_ref

group by 1,2,3)

as tabl1)as tab2

where amount\_rank =1

**Q5.**

select \* from

(

select \*,

rank() over(partition by month\_name order by amount asc) amount\_rank

from

(select

to\_char(book\_date, 'Mon-YY') month\_name,

passenger\_id,

passenger\_name,

sum(total\_amount) amount

from bookings.bookings b

inner join bookings.tickets t

on b.book\_ref=t.book\_ref

group by 1,2,3)

as tabl1)as tab2

where amount\_rank =1

**Q6.**

select \*

from

(select

passenger\_id,

passenger\_name,

t.ticket\_no,

count(flight\_id) flight\_count

from bookings.tickets t

inner join bookings.ticket\_flights f

on t.ticket\_no = f.ticket\_no

group by 1,2,3) tableone

where flight\_count>1

order by flight\_count desc

**Q7.**

select

count(t.ticket\_no)

from bookings.tickets t

left join bookings.boarding\_passes b

on t.ticket\_no=b.ticket\_no

where b.boarding\_no is null

Ans. 127899

**Q8.**

select \*

from

(select

\*,

scheduled\_arrival-scheduled\_departure as travel\_time

from bookings.flights) as table1

order by travel\_time desc

**Q9.**

select

\*,

case when hour\_time between 2 and 6 then 'Early\_morning\_flights'

when hour\_time between 6 and 11 then 'Morning\_flights'

when hour\_time between 11 and 16 then 'Noon\_flights'

when hour\_time between 16 and 19 then 'Evening\_flights'

when hour\_time between 19 and 23 then 'Night\_flights'

else 'Late\_Night\_flights' end as timings

from

(select

flight\_id,

flight\_no,

scheduled\_arrival,

scheduled\_departure,

extract (hour from scheduled\_departure) hour\_time

from

bookings.flights)as abc

**Q10.**

select\*

from

(select

\*,

case when hour\_time between 2 and 6 then 'Early\_morning\_flights'

when hour\_time between 6 and 11 then 'Morning\_flights'

when hour\_time between 11 and 16 then 'Noon\_flights'

when hour\_time between 16 and 19 then 'Evening\_flights'

when hour\_time between 19 and 23 then 'Night\_flights'

else 'Late\_Night\_flights' end as timings

from

(select

flight\_id,

flight\_no,

scheduled\_arrival,

scheduled\_departure,

extract (hour from scheduled\_departure) hour\_time

from

bookings.flights)as abc)as def

where timings ='Morning flight'

**Q11.**

select

\*

from

(select \*,

case when hours between 6 and 11 then 'Morning\_flight'

else 'early\_morning\_flights'

end as timings

from

(select \*

from

(select \*,

row\_number() over(partition by departure\_airport order by hours asc)

from

(select

flight\_id,

flight\_no,

scheduled\_departure,

scheduled\_arrival,

departure\_airport,

extract (hour from scheduled\_departure) hours

from bookings.flights)as abc) as def

where row\_number=1) as pqr) as tuv

where timings= 'Morning\_flight'