**SQL Assignments -1**

Solutions:

Ans 1:

select p.FirstName, p.LastName, a.City, a.State

from Person as P left join Address a on a.PersonId = p.PersonId

Ans 2:

Approach 1:

SELECT

a.Name AS 'Employee'

FROM

Employee AS a,

Employee AS b

WHERE

a.ManagerId = b.Id

AND a.Salary > b.Salary

;

Approach 2:

SELECT

a.NAME AS Employee

FROM Employee AS a JOIN Employee AS b

ON a.ManagerId = b.Id

AND a.Salary > b.Salary

;

Ans 3:

SELECT

DISTINCT(a.seat\_id)

FROM cinema a

INNER JOIN cinema b

ON abs(a.seat\_id - b.seat\_id) = 1

WHERE a.free = 1 and b.free = 1

ORDER BY a.seat\_id

Ans 4 :

SELECT

  id,

  SUM(IF (month = "Jan", revenue, null)) AS Jan\_Revenue,

  SUM(IF (month = "Feb", revenue, null)) AS Feb\_Revenue,

  SUM(IF (month = "Mar", revenue, null)) AS Mar\_Revenue,

  SUM(IF (month = "Apr", revenue, null)) AS Apr\_Revenue,

  SUM(IF (month = "May", revenue, null)) AS May\_Revenue,

  SUM(IF (month = "Jun", revenue, null)) AS Jun\_Revenue,

  SUM(IF (month = "Jul", revenue, null)) AS Jul\_Revenue,

  SUM(IF (month = "Aug", revenue, null)) AS Aug\_Revenue,

  SUM(IF (month = "Sep", revenue, null)) AS Sep\_Revenue,

  SUM(IF (month = "Oct", revenue, null)) AS Oct\_Revenue,

  SUM(IF (month = "Nov", revenue, null)) AS Nov\_Revenue,

  SUM(IF (month = "Dec", revenue, null)) AS Dec\_Revenue

FROM

  Department

GROUP BY

  id

ORDER BY id;

limit 3;

Ans 5 :

SELECT DISTINCT

  A.player\_id,

  FIRST\_VALUE(A.event\_date) OVER (

    PARTITION BY

      A.player\_id

    ORDER BY

      A.event\_date

  ) AS first\_login

FROM

  Activity A

ORDER BY A.player\_id;

Ans 6 :

SELECT

    Employee.name, Bonus.bonus

FROM

    Employee

        LEFT OUTER JOIN

    Bonus ON Employee.empid = Bonus.empid

WHERE Bonus.bonus < 1000 or Bonus.bonus is null

order by Bonus.bonus;

Ans 7 :

select \*

from cinema

where mod(id, 2) = 1 and description != 'boring'

order by rating DESC;

Ans 8:

1. SELECT name FROM customer WHERE referee\_id <> 2 OR referee\_id IS NULL;
2. SELECT name FROM customer WHERE referee\_id = NULL OR referee\_id <> 2;

Ans 9 :

select class

from courses

group by class

having count(class)>=5

order by class;

Ans 10:

select e.Id, e.month, sum(e2.salary) as salary  
from Employee e  
join Employee e2  
on (e.id = e2.id and e.month >= e2.month and (e.month - e2.month <= 2)) where e.month < (select max(month) from Employee where id = e.id) group by 1, 2   
order by 1, 2 desc;