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Section - H

Database

Assignment 2

Question 1

(1)

select movie.Mname, mtype.Tname

from movie

inner join Mtype

inner join Movie\_type

on Movie.MovieID = Movie\_Type.MovieID and Mtype.TypeID = Movie\_type.TypeID and Movie.Realease\_Date >= '2000-01-01' and Movie.Realease\_Date <= '2009-12-31';



(2)

select staff.SName, staff.SDesignation

from staff

inner join booking

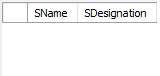
on staff.SID = booking.SID

inner join screen\_movie

on screen\_movie.screen\_movie\_id = booking.screen\_movie\_id

inner join movie

on movie.movieid = screen\_movie.movieid and movie.mname = 'Avengers';



(3)

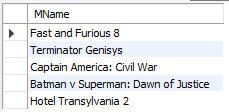
select movie.MName

from movie

natural join movie\_type

group by movie\_type.movieid

having count(movie\_type.movieid) > 1;



(4)

select category.catname, movie.mname

from category

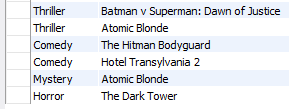
left join movie\_category

on category.catid = movie\_category.catid

inner join movie

on movie.movieid = movie\_category.movieid;





(5)

select movie.mname, sum(booking.no\_of\_seats) as bookings

from movie

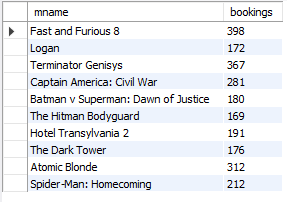
inner join screen\_movie

on movie.movieid = screen\_movie.movieid

inner join booking

on screen\_movie.screen\_movie\_id = booking.screen\_movie\_id

group by movie.mname;



(6)

select category.catname, count(movie.mname)

from movie

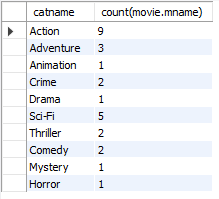
inner join movie\_category

using(MovieID)

inner join category

using(CatID)

group by category.catname;



(7)

select distinct movie.mname from movie

inner join movie\_type

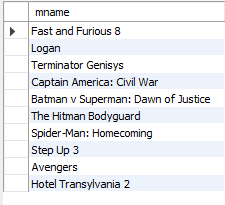
on play\_time > 120

union

select distinct movie.mname from movie

inner join movie\_type

on movie.movieid = movie\_type.movieid and movie\_type.typeid = 2;



(8)

select catname from category

inner join movie\_category

on category.catid = movie\_category.catid and movie\_category.movieid = null;

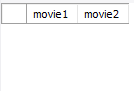


(9)

select m1.mname as movie1, m2.mname as movie2 from movie as m1

inner join movie as m2

on m1.realease\_date = m2.realease\_date and m1.movieid <> m2.movieid;



(10)

select movie.mname, sum(booking.no\_of\_seats) as seats

from movie

inner join screen\_movie

on movie.movieid = screen\_movie.movieid

inner join booking

on screen\_movie.screen\_movie\_id = booking.screen\_movie\_id

group by movie.mname

order by seats desc

limit 1;



(11)

select movie.mname, sum(booking.no\_of\_seats) as bookings

from movie

inner join screen\_movie

on movie.movieid = screen\_movie.movieid

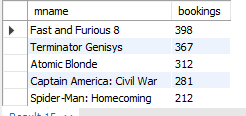
inner join booking

on screen\_movie.screen\_movie\_id = booking.screen\_movie\_id

group by movie.mname

order by bookings desc

limit 0,5;



(12)

select movie.mname, sum(booking.no\_of\_seats) as bookings

from movie

inner join screen\_movie

on movie.movieid = screen\_movie.movieid

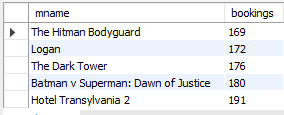
inner join booking

on screen\_movie.screen\_movie\_id = booking.screen\_movie\_id

group by movie.mname

order by bookings asc

limit 0,5;



(13)

strcmp():

select strcmp("Fast and Furious 8", "Avengers");



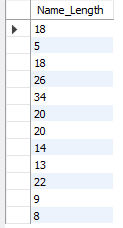
Replace();

select replace("Fast and Furious 8", "Furious 8", "Furious Hobbs and Shaw");



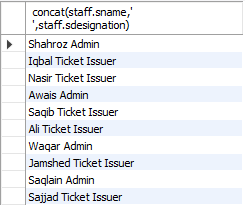
Length():

select length(movie.mname) as Name\_Length from movie;



Concat();

select concat(staff.sname,' ',staff.sdesignation) from staff;



Datediff():

select datediff('2017-04-13', '2017-03-07') as Days\_in\_between;



Sysdate():

select sysdate();



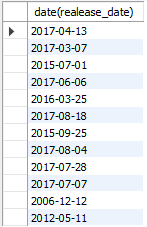
Curdate():

select curdate();



Date():

select date(realease\_date) from movie;



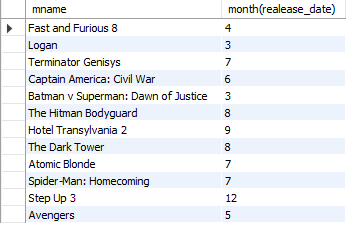
Year():

select mname, year(realease\_date) from movie;



Month():

select mname, month(realease\_date) from movie;



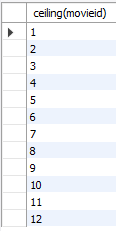
Abs():

select abs(-299.34);



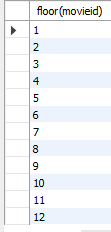
Ceiling():

select ceiling(movieid) from movie;



Floor():

select floor(movieid) from movie;



Round():

select round(345.5, 0);

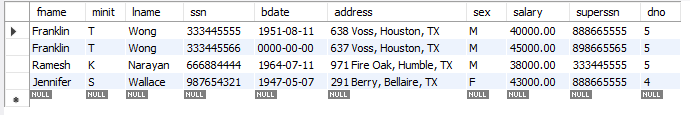


Question 2

(1)

select \* from employee

where dno = 4 and salary > 25000 or dno = 5 and salary > 30000;

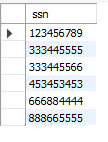


(2)

select distinct e1.ssn from employee as e1

inner join employee as e2

on e1.dno = 5 or e1.ssn = e2.superssn and e2.dno = 5;



(3)

select e1.ssn from employee as e1

inner join employee as e2

on e1.dno <> 5 and e1.ssn = e2.superssn and e2.dno = 5;



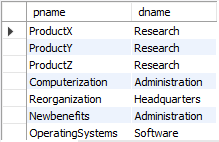
(4)

select project.pname, department.dname

from project

inner join department

on project.dnum = department.dnumber;





(5)

Select concat(fname,lname) as Fullname

from Employee

where ssn IN (select essn from Works\_on, Project where ssn = essn and dno <> dnum and pno = pnumber);





(6)

select avg(salary) from employee

where sex = 'F'

group by sex;

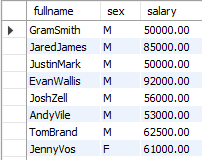


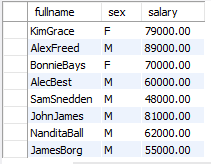
(7)

select concat(fname,lname) as fullname, sex, salary

from employee

where salary > (select avg(salary) from employee where sex = 'F' group by sex);





(8)

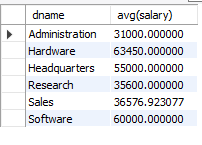
select department.dname, avg(salary)

from employee

inner join department

on employee.dno = department.dnumber

group by employee.dno;



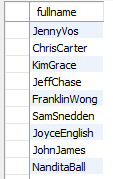
(9)

select concat(employee.fname,employee.lname) as fullname

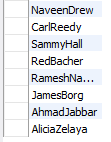
from employee

where employee.ssn not in (select distinct essn from dependent);









(10)

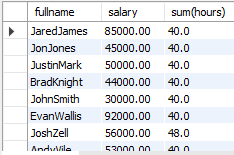
select concat(fname,lname) as fullname, salary, sum(hours)

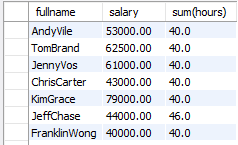
from employee

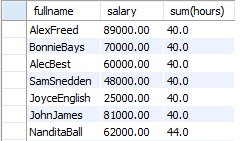
inner join works\_on

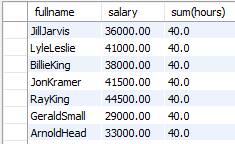
on works\_on.essn = employee.ssn

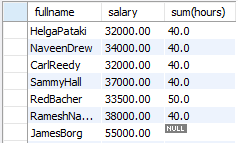
group by works\_on.essn;













(11)

select concat(fname,lname) as fullname, salary, sum(hours) as total\_hours

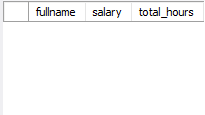
from employee

inner join works\_on

on works\_on.essn = employee.ssn

group by works\_on.essn

having total\_hours < 20.0;



(12)

select concat(fname,lname) as fullname

from employee

inner join department

on employee.ssn = department.mgrssn

inner join dept\_locations

on employee.dno = dept\_locations.dnumber and dept\_locations.dlocation = 'Houston';

