**<!-- Topic: Assesment on DATABASE.**

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**Created Date: 05.04.2024**

**Last modified date: 07.04.2024**

**Reviewed by:**

**Reviewed date:**

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**Table 1: programmer**

create table programmer(

name varchar(28),

dob date,

doj date,

sex varchar(1),

prof1 varchar(28),

prof2 varchar(28),

salary int

);

insert into programmer values(‘kathir’, ‘2002-12-29’,‘2024-01-21’,‘m’,’c’,SQL’,3000);

insert intoprogrammervalues(‘bharat’,‘20011022’,‘20240121’,‘m’,’python’,mangodb’,3000);

insert into programmer values(‘ajay’, ‘2002-11-12’,‘2024-01-21’,‘m’,’java’,SQL’,3000);

insert into programmer values(‘balaji’, ‘2003-09-15’,‘2024-01-21’,‘m’,’java’,reactjs’,3000);

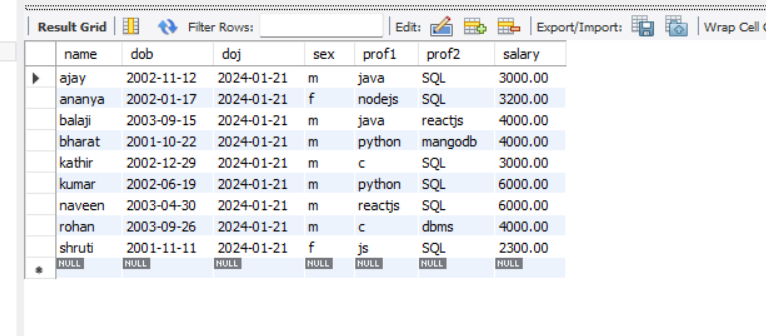
insert into programmer values(‘rohan’, ‘2003-09-26’,‘2024-01-21’,‘m’,’c’,dbms’,3000);

insert into programmer values(‘kumar’, ‘2002-06-19’,‘20240121’,‘m’,’python’,’SQL’,3000);

insert into programmer values(‘naveen’, ‘2003-04-30’,‘2024-01-21’,‘m’,’reactjs’,’SQL’,3000);

insert into programmer values(‘shruti’, ‘2001-11-11’,‘2024-01-21’,‘f’,’js’,’SQL’,3000);

insert into programmer values(‘ananya’, ‘2002-01-17’,‘2024-0121’,‘f’,’nodejs’,’SQL’,3000);



-------------------------------------End of table 1-----------------------------------

**Table 2: software**

Use assessment;

create table software(

name varchar(28),

tittle varchar(220),

devin varchar(20),

scost int,

dcost int

sold int

);

insert into software values('ajay','AI Assistant','python',3000,2700,30);

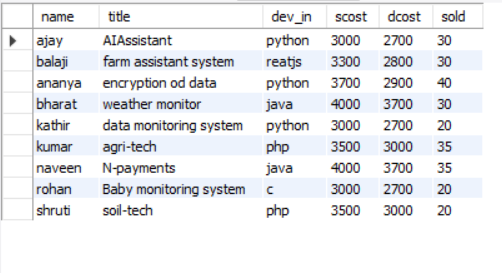
insert into software values('bala','farm assistant system','reatjs',3300,2800,30);

insert into software values('vishva','encryption od data','python',3700,2900,30);

insert into software values('madhan','weather monitor','java',4000,3700,30);

insert into software values('sharukh','data monitoring system','python',3000,2700,30);

insert into software values('rohith','agri-tech','php',3500,3000,30);



-------------------------------------End of table 2-----------------------------------

**Table 3:studies**

USE assesment;

create table studies(

name varchar(28),

splace varchar(220),

course varchar(20),

cost int

);

insert into studies values('anand', 'villupuram', 'daa' , '20000');

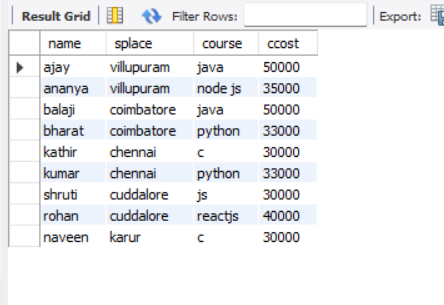
insert into studies values('bala', 'villupuram', 'daa' , '25000');

insert into studies values('chandru', 'chennai', 'php' , '23000');

insert into studies values('deva', 'chennai', 'php' , '27000');

insert into studies values('punith', 'coimbatore', 'java' , '28000');

insert into studies values('saran', 'coimbatore', 'reactjs' , '30000');



-------------------------------------End of table 3-----------------------------------

1. SELECT avg(scost),devin from software where devin = 'python';
2. select name, TIMESTAMPDIFF(YEAR, dob, CURDATE()) AS age FROM programmer;
3. select dob,studies.course,studies.name from studies inner join programmer on programmer.name = studies.name where studies.course = 'java'
4. select sold from software where sold=(select max(sold) from software)
5. SELECT programmer.name, programmer.dob, studies.course FROM programmer INNER JOIN studies ON programmer.name = studies.name;
6. select min(ccost) from studies
7. SELECT count(name),course FROM studies where course='php';
8. SELECT sum(scost),devin FROM assesment.software where devin='python';
9. SELECT title FROM assesment.software where name = 'ajay';
10. SELECT count(name),splace FROM assesment.studies where splace='chennai';
11. select \* from software where scost >3000;
12. SELECT count(title) FROM assesment.software where scost > dcost;
13. select title,dev\_in,dcost from software where dev\_in = 'java' and dcost = (select max(dcost)from software)
14. SELECT \* FROM assesment.software where scost > dcost;
15. SELECT count(title),devin FROM assesment.software where devin = 'python';
16. SELECT count(splace) FROM assesment.studies where splace = 'chennai';
17. SELECT count(name) FROM assesment.studies where cost < 30000 and cost > 24000;
18. SELECT avg(cost) FROM assesment.studies;
19. SELECT \* FROM assesment.programmer where prof1 = 'c';
20. SELECT \* FROM assesment.programmer where prof1 = 'c' or prof2 = 'dbms';
21. SELECT \* FROM assesment.programmer where prof1 not in('c','java');
22. select max(timestampdiff(year,dob,current\_date())) from programmer;
23. select avg(timestampdiff(year,dob,current\_date())) from programmer where sex = 'f';
24. select name,timestampdiff(year,doj,current\_date()) from programmer order by doj desc;
25. select name,dob from programmer where month(dob)= month (curdate());
26. SELECT count(name) FROM assesment.programmer where sex = 'f';
27. SELECT prof1, prof2 FROM assesment.programmer where sex = 'm';
28. SELECT avg(salary) FROM assesment.programmer;
29. SELECT count(name) FROM assesment.programmer where salary>2500 and salary<3000;
30. SELECT \* FROM assesment.programmer where prof1 not in ('c','js','java');
31. select count(name) from programmer where (timestampdiff(year,dob,current\_date()))>24 and prof1 = 'c';
32. select name,dob from programmer where week(dob)= week (curdate());
33. select name from programmer where timestampdiff(year,doj,now()) > 1;
34. select \* from programmer where timestampdiff(year,doj,now()) = 2;
35. select title,dcost-(scost\*sold) as recovery\_amount from software where ((scost\*sold)-dcost) < dcost;
36. select title from software where sold = 0;
37. SELECT scost FROM assesment.software where name = 'bala';
38. SELECT distinct splace FROM assesment.studies;
39. SELECT count(distinct course) FROM assesment.studies;
40. SELECT \* FROM assesment.programmer where name like '%A%A%';
41. SELECT name FROM programmer where length(name) >5;
42. select count(name) from programmer where sex='f' and timestampdiff(year,doj,now()) >2 and prof1 = 'c';
43. SELECT min(length(name)) FROM programmer;
44. SELECT avg(dcost),devin FROM assesment.software where devin = 'python';
45. d
46. SELECT \* FROM programmer WHERE DAY(dob) = DAY(LAST\_DAY(dob));
47. SELECT salary FROM assesment.programmer where sex = 'm'and prof1 not in ('c');
48. select title, scost, dcost, scost-dcost as difference from software order by difference desc;
49. SELECT name,dob,doj FROM programmer having month(dob) = month(doj);
50. SELECT title from software where length(length(name)-length(replace(name,' ',''))) >1;---------------------(total length of words – total length of words after removing spaces)---------

Part-II

1. SELECT devin, COUNT(title) AS numberofLanguage from software GROUP BY devin ;
2. SELECT name, COUNT(title) AS developedProject from software GROUP BY name ;
3. SELECT sex, count(name) AS NoOfEmployees from programmer group by sex;
4. select max(scost),devin from software group by devin;
5. select count(name),year(dob) from programmer group by year(dob);
6. select count(name),year(doj) from programmer group by year(doj);
7. select count(name),month(dob) from programmer group by month(dob);
8. select count(name),month(doj) from programmer group by month(doj);
9. SELECT count(name),prof1 from programmer group by prof1;
10. SELECT count(name),prof2 from programmer group by prof2;
11. SELECT count(name),salary from programmer group by salary;
12. select count(name), splace from studies group by splace;
13. select count(name), course from studies group by course
14. select sum(dcost), devin from software group by devin;
15. select sum(scost), devin from software group by devin;
16. select name,dcost,title from software
17. select name,scost,title from software
18. select count(title),name from software group by name;
19. SELECT name,max(scost),title from assesment.software group by title,name;
20. SELECT name,max(salary) from assesment.programmer group by name; , SELECT name,min(salary) from assesment.programmer group by name;
21. SELECT name,avg(scost),avg(dcost) from assesment.software group by name;
22. SELECT count(course),course,avg(cost) FROM assesment.studies group by course
23. SELECT count(name),splace FROM assesment.studies group by splace
24. SELECT count(name),sex from assesment.programmer group by sex;
25. SELECT name,salary from assesment.programmer;
26. select count(salary),prof1 as languages from assesment.programmer group by prof1, prof2;
27. SELECT devin,count(sold) as projectSold FROM assesment.software where dcost < 3000 group by devin;
28. SELECT avg(scost)-avg(dcost) as Difference,devin from assesment.software group by devin;
29. Need to be asked
30. SELECT max(salary) as highest\_salary,min(salary) as lowest\_salary,avg(salary) FROM assesment.programmer where salary > 3000;

Part – III

1. SELECT max(salary) as MAX\_salary,prof1 FROM assesment.programmer where prof1='c' group by prof1;
2. SELECT name,salary FROM programmer where salary=(select max(salary) from programmer where sex= 'f') and prof2= 'SQL';
3. SELECT max(salary) as MAX\_salary,prof1 FROM assesment.programmer group by prof1;
4. SELECT name FROM programmer WHERE doj = (SELECT MIN(doj) FROM programmer);
5. SELECT name FROM programmer WHERE doj = (SELECT MAX(doj) FROM programmer);
6. SELECT prof2 FROM assesment.programmer GROUP BY prof2 HAVING COUNT(\*) = 1;
7. SELECT name,doj FROM assesment.programmer WHERE doj = (SELECT MIN(doj) FROM assesment.programmer);-------------using limit method and join,null
8. SELECT splace FROM studies GROUP BY splace ORDER BY COUNT(\*) DESC LIMIT 1;
9. need to be asked
10. SELECT name FROM assesment.programmer where salary>2000 and sex= 'f' and prof1 <> 'python''node js';
11. SELECT course,cost FROM assesment.studies where cost = (select max(cost) from assesment.studies);
12. SELECT course FROM studies GROUP BY course ORDER BY COUNT(\*) DESC LIMIT 1;
13. SELECT splace, course FROM studies WHERE ccost < (SELECT AVG(ccost) FROM studies);
14. SELECT splace, ccost FROM studies WHERE ccost = (SELECT MAX(ccost) FROM studies);
15. select course,name from studies where name= (select count(name)/count(name) as count from assesment.studies);
16. select avg(name),splace from assesment.studies where name < (select count(name)/count(name) as count from assesment.studies) group by splace;
17. select course,cost from assesment.studies where cost < 1000 or cost > 1000;
18. select title from assesment.software where dcost = (select max(dcost) from assesment.software)
19. select title from assesment.software where scost = (select min(scost) from assesment.software)
20. select name,sold from software where sold = (select min(sold) from software);
21. select devin, scost from software where scost = (select max(scost) from software)
22. need to study
23. select title,dcost from software where devin = 'java' and dcost= (select max(dcost) from software);
24. select devin,sold from software where sold= (select max(sold) from software);
25. select name,sold from software where sold= (select max(sold) from software);
26. select name,scost from software where scost= (select max(scost) from software);
27. select title,sold from software where sold< (select avg(sold) from software);
28. SELECT name,salary FROM programmer where salary > (select max(salary) from programmer where sex = 'm') and sex='f';
29. select prof1 from programmer group by prof1 having prof1=(select max(prof1) from programmer);
30. select name from software where scost\*sold>2\*dcost;
31. select name,title from software where dcost=(select min(dcost) from software group by dev\_in);Need to be asked
32. select name FROM Programmer WHERE sex = 'm' AND dob = (SELECT MIN(dob) FROM Programmer WHERE sex = 'm' AND YEAR(dob) = 1965);Need to be asked
33. SELECT name,dev\_in FROM Software WHERE sold IN (SELECT MAX(sold) FROM Software GROUP BY name) UNION SELECT name,dev\_in FROM Software WHERE sold IN (SELECT min(sold) FROM Software GROUP BY name);
34. SELECT name FROM Programmer WHERE sex = 'f' AND YEAR(doj) = 1992 ORDER BY dob desc LIMIT 1;select name,salary from programmer where sex='m' and salary < (select avg(salary) from programmer where sex = 'f');
35. SELECT YEAR(dob) AS birth\_year, COUNT() AS programmers FROM Programmer GROUP BY YEAR(dob) ORDER BY COUNT() DESC LIMIT 1;
36. SELECT MONTH(doj) AS join\_month, COUNT() AS num\_programmers\_joined FROM Programmer GROUP BY MONTH(doj) ORDER BY COUNT() DESC LIMIT 1;
37. SELECT prof1, COUNT() AS programmers FROM Programmer GROUP BY prof1 ORDER BY COUNT() DESC LIMIT 1;
38. Select name,salary from programmers where salary < (select avg(salary) from programmer where sex=’f’) and sex = ‘f’;

PART -IV

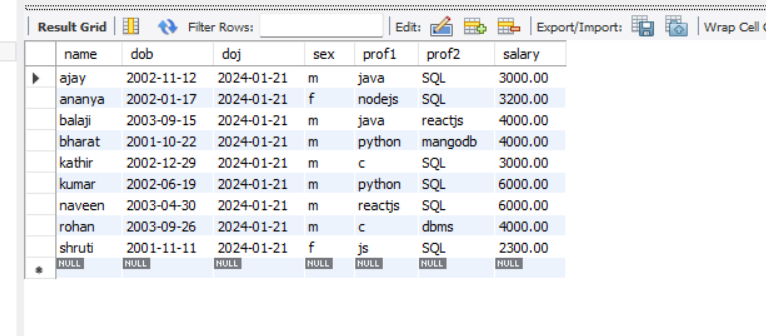


Table 1 programmer

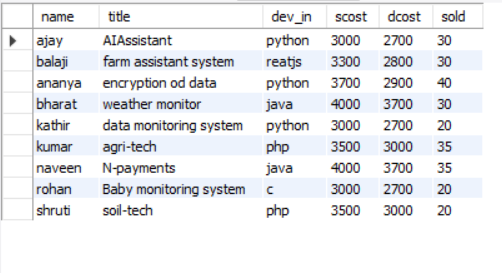


Table 2 : software

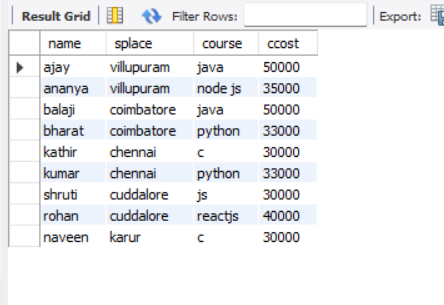


Table 3: studies

1. select \* from programmer where salary in (select salary from programmer group by salary having count(\*) > 1);

2. select \* from programmer where sex="Male" and salary>3000;

3. SELECT \* FROM programmer where sex = 'f' and prof1 = 'java';

4. select year(doj) from programmer where year(doj)>2005;

5. select \* from software ,studies ,programmer where software.name=studies.name and programmer.name=software.name and sex='f' and splace='villupuram';

6. select title,sold,dcost\*sold as sales\_cost,splace from software,studies where studies.name = software.name order by splace;

7. select software.\* from programmer,software,studies where programmer.name=software.name and software.name=studies.name and programmer.name=studies.name and sex='m' and dev\_in='java' and splace= (select splace from studies group by splace having count(splace) =(select max(count(splace)) from studies group by splace));

8. select software.\* from programmer ,software where software.name=programmer.name and sex='m' and year(dob)<1965 and sex='f' and year(dob)>1975;

9. select \* from software where dev\_in in(select prof2 from programmer where prof2 not in(select prof1 from programmer));

10. select title,dev\_in from software, programmer where software.name = programmer.name and (software.dev\_in <> programmer.prof1 or software.dev\_in <> programmer.prof2)

11. select splace,software.\* from programmer ,software ,studies where programmer.name=software.name and software.name=studies.name and sex='m' and splace='chennai';

12. select name from programmer where name not in(select name from software);

13. select sum(dcost) from software where dev\_in = 'java'

14. select \* from programmer where doj in (select doj from programmer group by doj having count(\*) > 1);

15. select \* from programmer where prof2 in (select prof2 from programmer group by prof2 having count(\*) > 1);

16. select studies.splace,sum(software.sold\*software.scost) from software,studies where studies.name=software.name group by studies.splace;

17. select splace from software,studies where software.name=studies.name group by splace,dcost having max(dcost)=(select max(dcost) from software);

18. select prof1 from programmer where prof1 not in(select dev\_in from software) union select prof2 from programmer where prof2 not in(select dev\_in from software);

19. select programmer.salary,studies.course from programmer,software,studies where programmer.name=software.name and software.name=studies.name and scost=(select max(scost) from software);

20. select programmer.name,ceil(ccost/salary) from programmer,studies where studies.name=programmer.name;

21. select title,scost,doj from programmer,software where programmer.name = software.name having doj = ((timestampdiff(doj))<3) and scost = (select mac(scost)from software);

22. select avg(salary) from programmer,software where programmer.name=software.name and sold\*scost>50000;

23. select count(software.name) from software,studies where software.name=studies.name group by software.name,ccost having min(ccost)=(select min(ccost) from studies);

24. select count(\*) from programmer,software where software.name=programmer.name group by dev\_in having min(dcost)=(select min(dcost) from software);

25. select count(dev\_in) from programmer,software where software.name=programmer.name and sex='f' and salary>(select max(salary) from programmer,software where software.name=programmer.name and sex='m');

26. select count(\*) from software,programmer where programmer.name=software.name group by doj having max(doj)=(select max(doj) from studies,programmer, software where programmer.name=software.name and studies.name=programmer.name and (splace='chennai'));

27. select name,splace from studies where name not in(select name from software);

28. select count(\*),sum(scost\*sold-dcost) as profit from software where dev\_in in (select prof1 from programmer) group by dev\_in;

29. select software.name,count(dev\_in) from programmer,software where programmer.name=software.name group by software.name;

30. SELECT \* FROM programmer UNION SELECT \* FROM sstudies UNION SELECT \* FROM software;