SQL QUERY

NAME: Jayprasanth S

INTERN ID: INT00821

TEAM: IAS

CREATE DATABASE PROGRAMMER;

USE PROGRAMMER;

CREATE TABLE PROGRAMMER(Name VARCHAR(20),

DOB VARCHAR(20),

DOJ VARCHAR(20),

SEX VARCHAR(20),

PROF1 VARCHAR(20),

PROF2 VARCHAR(20),

SALARY INTEGER);

INSERT INTO PROGRAMMER VALUES("Kaviya","30-May-2002","21-Sept-22","F","Java","Python",50000),

("Snow","07-Mar-2000","15-Dec-20","M","C","C++",35000),

("Sita","02-Nov-2001","30-Jun-21","F","C++","Python",45000),

("Jack","21-Sept-2002","30-May-20","M","Java","C",3200),

("Mohan","23-Jan-2001","15-Sept-22","M","C","Python",3200);

CREATE TABLE SOFTWARE(Name VARCHAR(20),

TITLE VARCHAR(20),

DEV\_IN VARCHAR(20),

SCOST INTEGER,

DCOST INTEGER,

SOLD INTEGER);

INSERT INTO SOFTWARE VALUES("Jay","HMS","Java","500","5000","22”),

("Ovi","EMS","Python","400","4000","10"),

("Vanchi","BBMS","Java","600","4500","35"),

("Sneha","GMS","Java","500","4500","44"),

("Dhina","SMS","Python","600","5000","28");

CREATE TABLE STUDIES(Name VARCHAR(20),

SPLACE VARCHAR(20),

COURSE VARCHAR(20),

CCOST VARCHAR(20));

INSERT INTO STUDIES VALUES("Kavi","Namakal","Java","10000"),

("Maha","Palacode","Devops","100000"),

("Anbu","Sathy","Java","7000"),

("Dhana","Hosur","Devops","90000"),

("Mayil","Erode","Python","10000");

SELECT Name,DOB,DOJ,SEX,PROF1,PROF2,SALARY FROM PROGRAMMER;

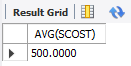
SELECT Name,TITLE,DEV\_IN,SCOST,DCOST,SOLD FROM SOFTWARE;

SELECT Name,SPLACE,COURSE,CCOST FROM STUDIES;

QUERY - 1

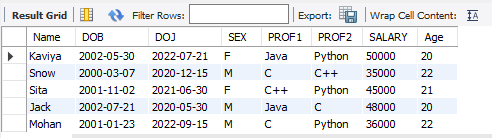
1. Find out the SELLING COST AVERAGE for the packages developed in PYTHON?

SELECT AVG(SCOST) FROM SOFTWARE WHERE DEV\_IN = "PYTHON";



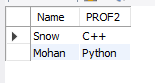
2. Display the names and ages of all programmers.

Select \* ,DATE\_FORMAT(FROM\_DAYS(DATEDIFF(NOW(),DOB)), '%Y') + 0 AS Age FROM Programmer;



3. Display the names and ages of all the programmers who have undergone training in C course.

SELECT Name,PROF2 FROM PROGRAMMER WHERE PROF1 = 'C';



4. What is the highest numbers of copies sold by a package?

SELECT MAX(SOLD) FROM SOFTWARE;



5. Display the names and date of birth of all the programmer born in JANUARY.

SELECT \* FROM PROGRAMMER where MONTH(DOB) = 1;



6. Display lowest course fee.

SELECT MIN(CCOST) FROM STUDIES;



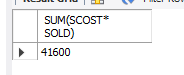
7. How many programmer has done Java course.

SELECT COUNT(Name) FROM STUDIES WHERE COURSE = "Java";



8. How much revenue has been earned through sales of packages in Python.

SELECT SUM(SCost\* Sold) FROM SOFTWARE WHERE DEV\_IN ="Python";



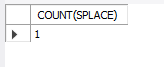
9. Display the details of software developed by Sneha?

SELECT DEV\_IN FROM SOFTWARE WHERE Name = "Sneha";



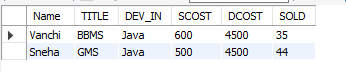
10. How many programmers studied at Hosur.

SELECT COUNT(SPLACE) FROM STUDIES WHERE SPLACE = "Hosur";



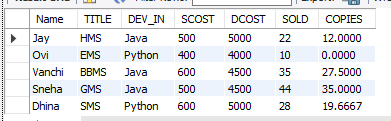
11. Display the details of PACKAGES whose sales crossed the 20000 mark.

SELECT \* FROM SOFTWARE WHERE SCOST\*SOLD>20000;



12. Find out the number of copies which should be sold in order to recover the development cost of each package.

SELECT \* , SOLD - (DCOST/SCOST) AS COPIES FROM SOFTWARE;



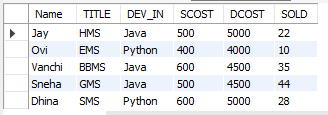
13. What is the price of the costliest software developed in Java?

SELECT MAX(SCOST) FROM SOFTWARE WHERE DEV\_IN = "Java";



14. Display the details of packages for which development cost has been recovered.

SELECT \* FROM SOFTWARE WHERE SCOST \* SOLD>=DCOST;



15. How many packages were developed in Java?

SELECT COUNT(Name) FROM SOFTWARE WHERE DEV\_IN ="Java";



16. How many programmers studies at Namakal?

SELECT COUNT(Name) FROM STUDIES WHERE SPLACE = "Namakal";



17. How many programmers paid 5000 to 10000 for their course?

SELECT COUNT(Name) FROM STUDIES WHERE CCOST BETWEEN 5000 AND 10000;



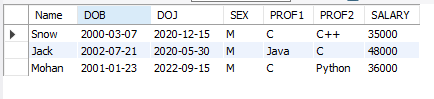
18. What is the average course fee?

SELECT AVG(CCOST) FROM STUDIES;



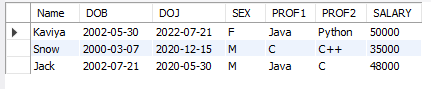
19. Display the details of programmers knowing c?

SELECT \* FROM PROGRAMMER WHERE PROF1 = "C" OR PROF2= "C";



20. How many programmers know either Java or C++?

SELECT \* FROM PROGRAMMER WHERE PROF1 = "Java" OR PROF2 = "C++";



21. How many programmers don't know C++ & C?

SELECT COUNT(Name) FROM PROGRAMMER WHERE PROF1 NOT IN("C++","C") AND PROF2 NOT IN("C++","C");



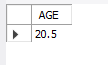
22. How old is the oldest male programmers?

SELECT MAX(DATE\_FORMAT(FROM\_DAYS(DATEDIFF(NOW(),DOB)), '%Y')) + 0 AS AGE FROM Programmer WHERE SEX="M";



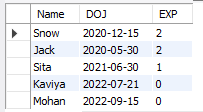
23. What is the average age of female programmers?

SELECT AVG(DATE\_FORMAT(FROM\_DAYS(DATEDIFF(NOW(),DOB)), '%Y')) + 0 AS AGE FROM Programmer WHERE SEX="F";



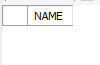
24. Calculate the experience in years for each programmers and display along with the names in descending order?

SELECT Name,DOJ,DATE\_FORMAT(FROM\_DAYS(DATEDIFF(NOW(),DOJ)),'%Y') + 0 AS EXP FROM Programmer ORDER BY EXP DESC;



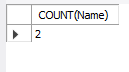
25. Who are the programmers who celebrate their birthday during the current month?

SELECT NAME FROM PROGRAMMER WHERE MONTH(DOB) = MONTH(CURDATE());



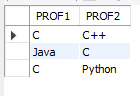
26. How many female programmers are there?

SELECT COUNT(Name) FROM PROGRAMMER WHERE SEX="F";



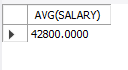
27. What are the languages known by the male programmers?

SELECT PROF1,PROF2 FROM PROGRAMMER WHERE SEX="M";



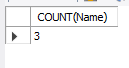
28. What is the Average salary?

SELECT AVG(SALARY) FROM PROGRAMMER;



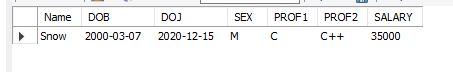
29. How many people draw 20000 to 45000?

SELECT COUNT(Name) FROM PROGRAMMER WHERE SALARY BETWEEN 20000 AND 45000;



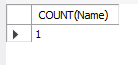
30. Display the details of those who don't know Java, Python or Pascal?

SELECT \* FROM PROGRAMMER WHERE PROF1 NOT IN ("Java","Python","Pascal") AND PROF2 NOT IN("Java","Python","Pascal");



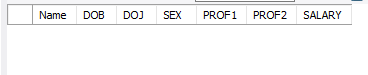
31. How many Female programmers knowing C are above 24 years of age?

SELECT COUNT(Name) FROM PROGRAMMER WHERE DATE\_FORMAT(FROM\_DAYS(DATEDIFF(NOW(),DOB)),'%y') > 20 AND SEX = "F";



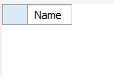
32. Who are the programmers who will be celebrating their Birthday within a week?

SELECT \* FROM PROGRAMMER WHERE WEEK(DOB)= WEEK(now());



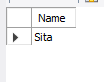
33. Display the details of those with less than a year's experience?

SELECT Name FROM PROGRAMMER WHERE YEAR(DOJ)=YEAR(NOW());



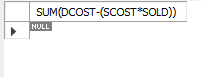
34. Display the details of those who will be completing 2 years of service this year?

SELECT Name FROM PROGRAMMER WHERE YEAR(DOJ)= (YEAR(NOW())-2);



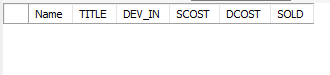
35. Calculate the amount to be recovered for those packages whose development cost has not been recovered?

SELECT SUM(DCOST-(SCOST\*SOLD)) FROM SOFTWARE WHERE (SCOST\*SOLD) < DCOST;



36. List the packages which have not been sold so far?

SELECT \* FROM SOFTWARE WHERE (SCOST\*SOLD) < DCOST;



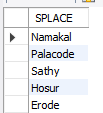
37. Find out the cost of the software developed by Ovi?

SELECT TITLE FROM SOFTWARE WHERE Name ='Ovi';



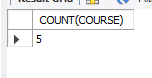
38. Display the institute’s names from the studies table without duplicates?

SELECT DISTINCT SPLACE FROM STUDIES;



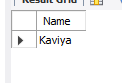
39. How many different courses are mentioned in the studies table?

SELECT DISTINCT COUNT(COURSE) FROM STUDIES;



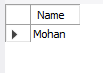
40. Display the names of the programmers whose names contain 2 occurrences of the letter A?

SELECT Name FROM PROGRAMMER WHERE Name LIKE '%A%A%';



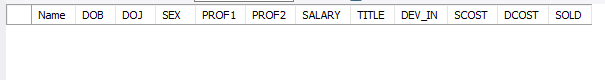
41. Display the names of programmers whose names contain unto 5 characters?

SELECT Name FROM PROGRAMMER WHERE LENGTH(Name)=5;



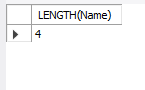
42. How many female programmers knowing Java have more than 2 years experience?

SELECT \* FROM PROGRAMMER JOIN SOFTWARE USING(Name) WHERE (DEV\_IN ='Java') AND YEAR(DOJ)<=(YEAR(NOW())-2);



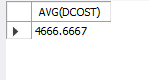
43. What is the length of the shortest name in the programmer table?

SELECT LENGTH(Name) FROM PROGRAMMER ORDER BY LENGTH(Name) LIMIT 1;



44. What is the average development cost of a package developed in Java?

SELECT AVG(DCOST) FROM SOFTWARE WHERE DEV\_IN ='Java';



45. Display the name, sex, dob (DD/MM/YY format), doj for all the programmers without using conversion function.

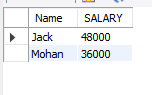
46. Who are the programmers who were born on the last day of the month?

SELECT Name FROM PROGRAMMER WHERE LAST\_DAY(DOB) = DOB;



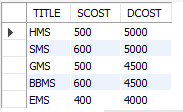
47. What is the amount paid in salaries of the male programmers who do not know Cobol?

SELECT Name,SALARY FROM PROGRAMMER WHERE PROF1 NOT IN("C++") AND PROF2 NOT IN("C++") AND SEX IN("M");



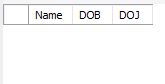
48. Display the title, scost, dcost and difference between scost and dcost in descending order of difference?

SELECT TITLE,SCOST,DCOST FROM SOFTWARE ORDER BY (DCOST-SCOST) DESC;



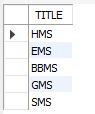
49. Display the name, dob, doj of those month of birth and month of joining are same?

SELECT Name,DOB,DOJ FROM PROGRAMMER WHERE MONTH(DOB)= MONTH(DOJ);



50. Display the names of the packages whose names contain more than 1 word?

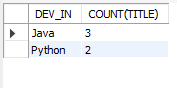
SELECT TITLE FROM SOFTWARE WHERE LENGTH(TITLE) > 1;



QUERY – 2

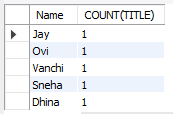
1. Display THE NUMBER OF packages developed in EACH language

SELECT DEV\_IN,COUNT(TITLE) FROM SOFTWARE GROUP BY DEV\_IN;



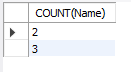
2. Display THE NUMBER OF packages developed by EACH person

SELECT Name,COUNT(TITLE) FROM SOFTWARE GROUP BY Name;



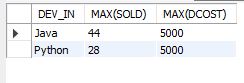
3. Display THE NUMBER OF male and female programmer

SELECT COUNT(Name) FROM PROGRAMMER GROUP BY SEX;



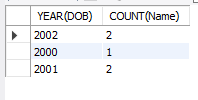
4. Display THE COSTLIEST packages and HIGEST selling developed in EACH language

SELECT DEV\_IN,MAX(SOLD),MAX(DCOST) FROM SOFTWARE GROUP BY DEV\_IN;



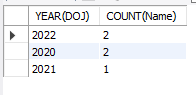
5. Display THE NUMBER OF people BORN in EACH YEAR.

SELECT YEAR(DOB),COUNT(Name) FROM PROGRAMMER GROUP BY YEAR(DOB);



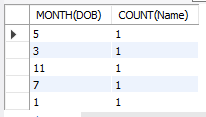
6. Display THE NUMBER OF people JOINED in EACH YEAR

SELECT YEAR(DOJ),COUNT(Name) FROM PROGRAMMER GROUP BY YEAR(DOJ);



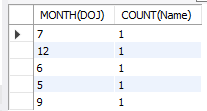
7. Display THE NUMBER OF people BORN in EACH MONTH.

SELECT MONTH(DOB),COUNT(Name) FROM PROGRAMMER GROUP BY MONTH(DOB);



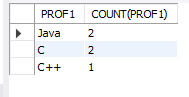
8. Display THE NUMBER OF people JOINED in EACH MONTH

SELECT MONTH(DOJ),COUNT(Name) FROM PROGRAMMER GROUP BY MONTH(DOJ);



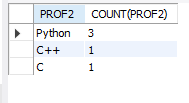
9. Display the language wise COUNTS of prof1

SELECT PROF1,COUNT(PROF1) FROM PROGRAMMER GROUP BY PROF1;



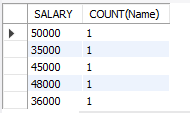
10. Display the language wise COUNTS of prof2

SELECT PROF2,COUNT(PROF2) FROM PROGRAMMER GROUP BY PROF2;



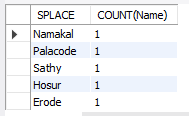
11. Display THE NUMBER OF people in EACH salary group

SELECT SALARY,COUNT(Name) FROM PROGRAMMER GROUP BY SALARY;



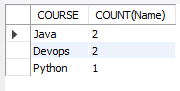
12. Display THE NUMBER OF people who studied in EACH institute.

SELECT SPLACE,COUNT(Name) FROM STUDIES GROUP BY SPLACE;



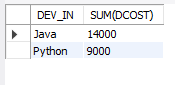
13. Display THE NUMBER OF people who studied in EACH course.

SELECT COURSE,COUNT(Name) FROM STUDIES GROUP BY COURSE;



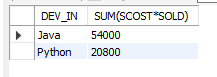
14. Display the TOTAL development COST of the packages developed in EACH language

SELECT DEV\_IN,SUM(DCOST) FROM SOFTWARE GROUP BY DEV\_IN;



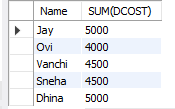
15. Display the selling cost of the package developed in EACH language.

SELECT DEV\_IN,SUM(SCOST\*SOLD) FROM SOFTWARE GROUP BY DEV\_IN;



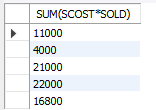
16. Display the cost of the package developed by EACH programmer

SELECT Name,SUM(DCOST) FROM SOFTWARE GROUP BY Name;



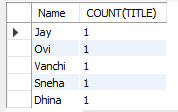
17. Display the sales values of the package developed inEACH programmer.

SELECT SUM(SCOST\*SOLD) FROM SOFTWARE GROUP BY Name;



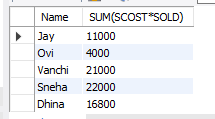
18. Display the NUMBER of packages developed by EACH programmer.

SELECT Name,COUNT(TITLE) FROM SOFTWARE GROUP BY Name;



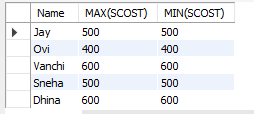
19. Display the sales COST of packages developed by EACH programmer language wise

SELECT Name,SUM(SCOST\*SOLD) FROM SOFTWARE GROUP BY Name;



20. Display EACH programmers name, costliest package and cheapest packages developed by Him/Her.

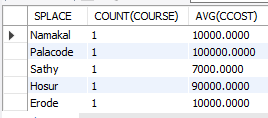
SELECT Name,MAX(SCOST),MIN(SCOST) FROM SOFTWARE GROUP BY Name;



21. Display EACH language name with AVERAGE development cost, AVERAGE cost, selling cost and AVERAGE price per copy.

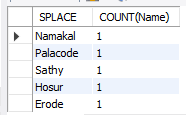
22. Display EACH institute name with NUMBER of courses, AVERAGE cost per course.

SELECT SPLACE,COUNT(COURSE),AVG(CCOST) FROM STUDIES GROUP BY SPLACE;



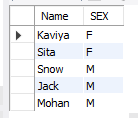
23. Display EACH institute name with NUMBER of students.

SELECT SPLACE,COUNT(Name) FROM STUDIES GROUP BY SPLACE;



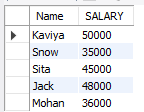
24. Display names of male and female programmers

SELECT Name,SEX FROM PROGRAMMER ORDER BY SEX;



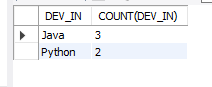
25. Display the programmer's name and their packages.

SELECT Name, SALARY FROM PROGRAMMER;



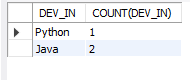
26. Display the NUMBER of packages in EACH language.

SELECT DEV\_IN,COUNT(DEV\_IN) FROM SOFTWARE GROUP BY DEV\_IN;



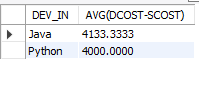
27. Display the NUMBER of packages in EACH language for which development cost is less than 5000.

SELECT DEV\_IN,COUNT(DEV\_IN) FROM SOFTWARE WHERE DCOST<5000 GROUP BY DEV\_IN;



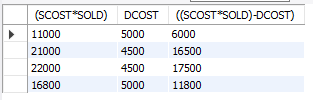
28. Display the AVERAGE difference BETWEEN scost and dcost for EACH language.

SELECT DEV\_IN,AVG(DCOST-SCOST) FROM SOFTWARE GROUP BY DEV\_IN;



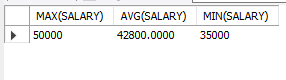
29. Display the TOTAL scost, dcsot and amount TO BE recovered for EACH programmer for whose dcost HAS NOT YET BEEN recovered.

SELECT (SCOST\*SOLD),DCOST,((SCOST\*SOLD)-DCOST) FROM SOFTWARE WHERE (SCOST\*SOLD) > DCOST;



30. Display highest, lowest and average salaries for THOSE earning MORE than 2000.

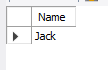
SELECT MAX(SALARY),AVG(SALARY),MIN(SALARY) FROM PROGRAMMER WHERE SALARY > 2000;



QUERY – 3

1. Who is the highest paid C programmer?

SELECT Name FROM PROGRAMMER WHERE SALARY IN (SELECT MAX(SALARY) FROM PROGRAMMER WHERE PROF1 LIKE "C" OR PROF2 LIKE "C");



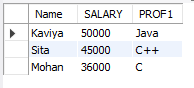
2. Who is the highest paid female Java programmer?

SELECT Name FROM PROGRAMMER WHERE SALARY IN (SELECT MAX(SALARY) FROM PROGRAMMER WHERE SEX="F");



3. Display the name of the HIGEST paid programmer for EACH language (prof1)

SELECT DISTINCT Name,SALARY,PROF1 FROM PROGRAMMER WHERE (SALARY,PROF1) IN (SELECT MAX(SALARY),PROF1 FROM PROGRAMMER GROUP BY PROF1);



4. Who is the LEAST experienced programmer?

SELECT Name FROM PROGRAMMER WHERE (DATE\_FORMAT(FROM\_DAYS(DATEDIFF(NOW(),DOJ)),'%Y')+0)<1;



5. Who is the MOST experienced programmer?

SELECT Name FROM PROGRAMMER WHERE (DATE\_FORMAT(FROM\_DAYS(DATEDIFF(NOW(),DOJ)),'%Y')+0)>1;



6. Which language is known by ONLY ONE programmer?

SELECT PROF1 FROM PROGRAMMER GROUP BY PROF1 HAVING PROF1 NOT IN (SELECT PROF2 FROM PROGRAMMER) AND COUNT(PROF1)=1 UNION SELECT PROF2 FROM PROGRAMMER GROUP BY PROF2 HAVING PROF2 NOT IN (SELECT PROF1 FROM PROGRAMMER) AND COUNT(PROF2)=1;



7. Who is the YONGEST programmer knowing Python?

SELECT Name FROM PROGRAMMER WHERE DOB IN (SELECT MAX(DOB) FROM PROGRAMMER WHERE PROF1 = "Python" OR PROF2 = "Python");



8. Which institute has MOST NUMBER of students?

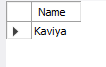
SELECT SPLACE,COUNT(SPLACE) FROM STUDIES GROUP BY SPLACE ORDER BY COUNT(SPLACE) DESC LIMIT 1;



9. Who is the above programmer?

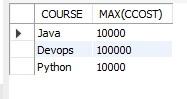
10. Which female programmer earns MORE than 46000/- but DOES NOT know Python?

SELECT Name FROM PROGRAMMER WHERE SEX = "F" AND SALARY >46000 AND (PROF1 != "Python" OR PROF2 != "Python");



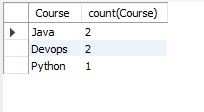
11. Which is the COSTLIEST course?

SELECT COURSE,MAX(CCOST) FROM STUDIES GROUP BY COURSE;



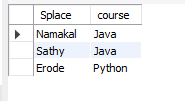
12. Which course has been done by MOST of the students?

select Course,count(Course) from Studies group by Course;



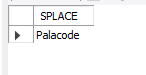
13. Display name of the institute and course Which has below AVERAGE course fee?

select Splace,course from studies where Ccost < (select avg(ccost) from studies);



14. Which institute conducts the COSTLIEST course?

SELECT SPLACE FROM STUDIES WHERE CCOST = (SELECT MAX(CCOST) FROM STUDIES);



15. Which course has below AVERAGE number of students?

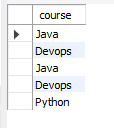
16. Which institute conducts the above course?

SELECT SPLACE FROM STUDIES WHERE COURSE = "Python";



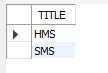
17. Display names of the course WHOSE fees are within 1000(+ or -) of the AVERAGE fee

select course from studies where ccost<(select avg(ccost)+1000 from studies) or ccost > (select avg(ccost)- 1000 from Studies);



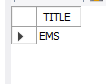
18. Which package has the HIGEST development cost?

SELECT TITLE FROM SOFTWARE WHERE DCOST = (SELECT MAX(DCOST) FROM SOFTWARE) GROUP BY TITLE;



19. Which package has the LOWEST selling cost?

SELECT TITLE FROM SOFTWARE WHERE DCOST = (SELECT MIN(DCOST) FROM SOFTWARE) GROUP BY TITLE;



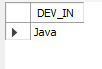
20. Who developed the package which has sold the LEAST number of copies?

SELECT Name FROM SOFTWARE WHERE SOLD = (SELECT MIN(SOLD) FROM SOFTWARE);



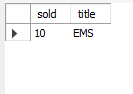
21. Which language was used to develop the package WHICH has the HIGEST sales amount?

SELECT DEV\_IN FROM SOFTWARE WHERE SCOST\*SOLD = (SELECT MAX(SCOST\*SOLD) FROM SOFTWARE);



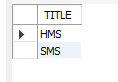
22. How many copies of the package that has the LEAST DIFFRENCE between development and selling cost were sold?

select sold,title from Software where title = (select title from Software where (dcost-scost) = (select min(dcost-scost)from Software));



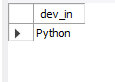
23. Which is the COSTLIEAST package developed in Python?

SELECT TITLE FROM SOFTWARE WHERE DCOST= (SELECT MAX(DCOST) FROM SOFTWARE WHERE DEV\_IN = "Python");



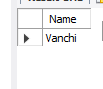
24. Which language was used to develop the MOST NUMBER of package?

select dev\_in from Software group by dev\_in having max(dev\_in) = (select max(dev\_in) from software);



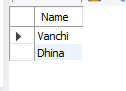
25. Which programmer has developed the HIGEST NUMBER of package?

SELECT Name FROM SOFTWARE GROUP BY Name HAVING MAX(Name) = (SELECT MAX(Name) FROM SOFTWARE);



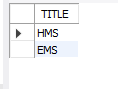
26. Who is the author of the COSTLIEST package?

SELECT Name FROM SOFTWARE WHERE SCOST = (SELECT MAX(SCOST) FROM SOFTWARE);



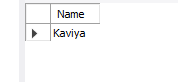
27. Display names of packages WHICH have been sold LESS THAN the AVERAGE number of copies?

SELECT TITLE FROM SOFTWARE WHERE SOLD < (SELECT AVG(SOLD) FROM SOFTWARE);



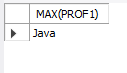
28. Who are the female programmers earning MORE than the HIGEST paid male programmers?

SELECT Name FROM PROGRAMMER WHERE SALARY > (SELECT MAX(SALARY) FROM PROGRAMMER WHERE SEX = "M") AND SEX="F";



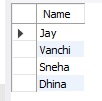
29. Which language has been stated as prof1 by MOST of the programmers?

SELECT MAX(PROF1) FROM PROGRAMMER;



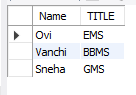
30. Who are the authors of packages, WHICH have recovered MORE THAN double the development cost?

SELECT Name FROM SOFTWARE WHERE (SCOST\*SOLD) > (DCOST\*2);



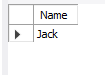
31. Display programmer names and CHEAPEST package developed by them in EACH language?

SELECT Name,TITLE FROM SOFTWARE WHERE DCOST IN (SELECT MIN(DCOST) FROM SOFTWARE GROUP BY DEV\_IN);



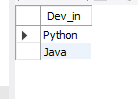
32. Who is the YOUNGEST male programmer born in 2002?

SELECT Name FROM PROGRAMMER WHERE DOB IN (SELECT MAX(DOB) FROM PROGRAMMER WHERE SEX="M");



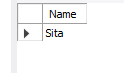
33. Display language used by EACH programmer to develop the HIGEST selling and LOWEST selling package.

select Dev\_in from Software where sold = (select min(sold) from Software) union select Dev\_in from Software where sold = (select max(sold) from Software);



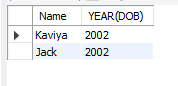
34. Who is the OLDEST female programmer WHO joined in 2021.

SELECT Name FROM PROGRAMMER WHERE DOB IN (SELECT MIN(DOB) FROM PROGRAMMER WHERE SEX="F");



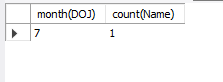
35. In WHICH year where the MOST NUMBER of programmer born?

SELECT YEAR(DOB) FROM PROGRAMMER WHERE DOB IN (SELECT MAX(YEAR(DOB))FROM PROGRAMMER);



36. In WHICH month did MOST NUMBRER of programmer join?

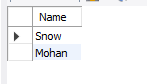
select month(DOJ),count(Name) from programmer group by month(DOJ) order by count(month(DOJ)) desc limit 1;



37. In WHICH language are MOST of the programmers proficient?

38. Who are the male programmers earning BELOW the AVERAGE salary of female programmers?

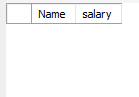
SELECT Name FROM PROGRAMMER WHERE SEX LIKE 'M' AND SALARY < (SELECT (AVG(SALARY)) FROM PROGRAMMER WHERE SEX LIKE 'F');



QUERY – 4=

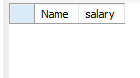
1. Display the details of THOSE WHO are drawing the same salary

select p.Name,p.salary from Programmer p, programmer q where p.salary=q.salary and p.Name!=q.Name;



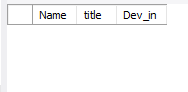
2. Display the details of software developed by male programmers earning MORE than 3000

select p.Name,p.salary from Programmer p, Software s where Salary>30000 and p.sex='M' and p.Name = s.Name;



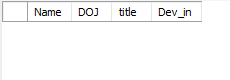
3. Display details of packages developed in Python by female programmers.

select p.Name,s.title,s.Dev\_in from Programmer p,Software s where s.Dev\_in='Python' and sex='F' and s.Name=p.Name;



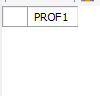
4. Display the details of the programmer WHO joined BEFORE 1990.

select p.Name,p.DOJ,s.title,s.Dev\_in from Programmer p,Software s where year(p.DOJ)<2015 and p.Name=s.Name ;



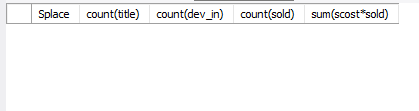
5. Display details of software developed in C by female programmers of Dhana

select p.Name,s.title,s.Dev\_in,q.Splace from Programmer p,Software s,Studies q where s.Dev\_in='Python' and sex='F' and q.Splace='Dhana' and s.Name=p.Name; SELECT PROF1 FROM PROGRAMMER GROUP BY PROF1 HAVING PROF1 NOT IN (SELECT PROF2 FROM PROGRAMMER) AND COUNT(PROF1)=1



6. Display NUMBER of packages NUMBER of copies sold and sales value of EACH programmer Institute-wise

select Splace,count(title),count(dev\_in),count(sold),sum(scost\*sold) from software s,studies q where q.Name = s.Name group by Splace;

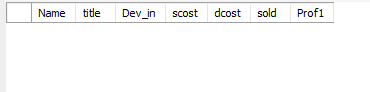


7. Display details of software developed in DBASE by male programmers WHO belong to the institute on which MOST NUMBER OF programmer’s studies

8. Display the details of the software that was developed by male programmers born BEFORE 1965 and female programmers born AFTER 1975.

9. Display the details of the software that was developed in the language that is NOT the programmer’s first proficiency

select s.Name,s.title,s.Dev\_in,s.scost,s.dcost,s.sold,p.Prof1 from Software s, Programmer p where s.dev\_in!=p.Prof1 and p.Name=s.Name;

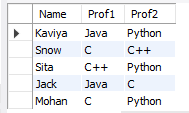


10. Display details of software that was developed in the language which is NEITHER first NOR second proficiency of the programmer.

11. Display details of software developed by male students of SABHARI.

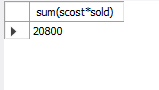
12. Display the names of programmers WHO HAVE NOT developed any package.

select p.Name,p.Prof1,p.Prof2 from Programmer p where p.Name not in (select Name from Software);



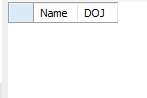
13. What is the total cost of the software developed by the programmers by Python?

select sum(scost\*sold) from Software where Dev\_in ='Python';



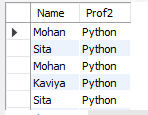
14. Who are the programmers WHO JOINED in the same day?

select p.Name,p.DOJ from Programmer p,Programmer q where p.DOJ=q.DOJ and p.Name!=q.Name;



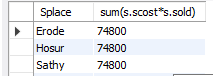
15. Who are the programmers WHO HAVE THE SAME PROF2?

select p.Name,p.Prof2 from Programmer p,Programmer q where p.Prof2=q.Prof2 and p.Name!=q.Name;



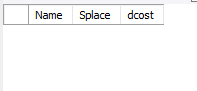
16. Display the total sales values of software, institutes-wise.

select q.Splace,sum(s.scost\*s.sold) from Studies q,Software s group by q.Splace;



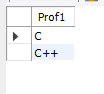
17. In which institutes did the person who developed the COSTLIEST package study?

select p.Name,q.Splace,s.dcost from Programmer p,Software s,Studies q where s.dcost=(select max(dcost) from Software) and p.Name=s.Name and s.Name = q.Name;



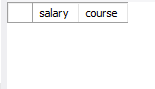
18. Which language listed in prof1 and prof2 HAS NOT BEEN used to develop any package?

(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. How much does the person WHO developed the HIGHEST selling package earn and WHAT course did he/she undergo?

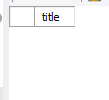
select p.salary,q.course from Programmer p, Software s, Studies q where s.sold =(select max(sold) from Software ) and p.Name=s.Name and s.Name=q.Name;



20. How many months will it take for each programmer to recover the cost of the course underwent?

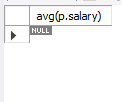
21. Which is the COSTLIEST package developed by a person with under 3 year’s expenences?

select s.title from Software s,Programmer p where s.sold=(select max(sold) from Software) and (date\_format(from\_days(datediff(now(),p.DOJ)),'%y')<3) and p.Name=s.Name;



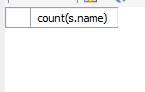
22. What is the AVERAGE salary for those WHOSE software's sales value is more than 50,000?

select avg(p.salary) from Programmer p,Software s where (s.sold\*s.scost)>50000;



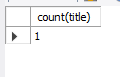
23. How many packages were developed by the students WHO studied in the institute that Charge the LOWEST course fee?

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



24. How many packages were developed by the person WHO developed the CHEAPEST package? Where did he\she study?

select count(title) from software where Name = (select Name from software where dcost = (select dcost from software group by dcost order by dcost limit 1));



25. How many packages were developed by female programmers earning MORE than the HIGHEST paid male programmer?

26. How many packages were developed by the MOST experienced programmers from BDPS?

27. List the programmers (from software table) and institutes they studied, including those WHO DIDN'T develop any package

28. List each profit with the number of programmers having that prof1 and the number of packages developed in that prof1.

29. List programmer names (from programmer table) and number of packages EACH developed.

30. List all the details of programmers who have done a course at S.S.I.L.

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