SQL - QUERIES

I. SCHEMAS

Table 1 :

STUDIES

PNAME (VARCHAR),

SPLACE (VARCHAR),

COURSE (VARCHAR),

CCOST (NUMBER)

Table 2 :

SOFTWARE

PNAME (VARCHAR),

TITLE (VARCHAR),

DEVIN (VARCHAR),

SCOST (NUMBER),

DCOST (NUMBER),

SOLD (NUMBER)

Table 3 :

PROGRAMMER

PNAME (VARCHAR),

DOB (DATE),

DOJ (DATE),

SEX (CHAR),

PROF1 (VARCHAR),

PROF2 (VARCHAR),

SAL (NUMBER)

LEGEND :

PNAME - Programmer Name,

SPLACE - Study Place,

CCOST - Course Cost,

DEVIN - Developed in,

SCOST - Software Cost,

DCOST - Development Cost,

PROF1 - Proficiency 1

1. Find out the selling cost average for packages developed in Oracle.

--- select avg(scost) from software where devin = 'Oracle';

2. Display the names, ages and experience of all programmers.

--- select PNAME, trunc(months\_between(SYSDATE,DOB)/12) as AGE, trunc(months\_between(SYSDATE,DOJ)/12),2) as EXPERIENCE from programmer;

select pname, floor((sysdate-dob)/365)

3. Display the names of those who have done the PGDCA course.

--- select pname from studies where course = 'PGDCA';

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

--- select max(sold) from software;

5. Display the names and date of birth of all programmers born in April.   
--- select pname, dob from programmer where dbo like '%APR%';

6. Display the lowest course fee.   
--- select min(ccost) from studies;

7. How many programmers have done the DCA course.   
--- select count(\*) from studies where course = 'DCA';

8. How much revenue has been earned through the sale of packages developed in C.   
--- select sum(scost\*sold-dcost) as Revenue from software group by devin having devin='C';

9. Display the details of software developed by Rakesh.   
--- select \* from software where pname ='Rakesh';

10. How many programmers studied at Pentafour.   
--- select count(\*) from studies where splace = 'Pentafour';

11. Display the details of packages whose sales crossed the 5000 mark.   
--- select \* from software where scost\*sold-dcost>5000;

12. Find out the number of copies which should be sold in order to recover the development cost of each package.   
--- select ceil(dcost/scost) from software;

13. Display the details of packages for which the development cost has been recovered.   
--- select \* from software where scost\*sold>=dcost;

14. What is the price of costliest software developed in VB?

--- select max(scost) from software where devin = 'VB';

15. How many packages were developed in Oracle ?   
--- select count(\*) from software where devin='Oracle';

16. How many programmers studied at PRAGATHI?   
--- select count(\*) from studies where splace='Pragathi';

17. How many programmers paid 10000 to 15000 for the course?

--- select count(\*) from studies where ccost between 10000 and 15000;

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 C or Pascal?

--- select \* from programmer where prof1 in ('C','Pascal) or prof2 in ('C','Pascal');

21. How many programmers don’t know C and C++?   
--- select \* from programmer where prof1 not in ('C','Pascal) and prof2 not in ('C','Pascal');

22. How old is the oldest male programmer?

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23. What is the average age of female programmers?   
24. Calculate the experience in years for each programmer and display along with their names in descending order.   
25. Who are the programmers who celebrate their birthdays during the current month?

26. How many female programmers are there?   
27. What are the languages known by the male programmers?   
28. What is the average salary?   
29. How many people draw 5000 to 7500?   
30. Display the details of those who don’t know C, C++ or Pascal.   
31. Display the costliest package developed by each programmer.   
32. Produce the following output for all the male programmers   
'Ram has 6 Years of experience and he is 34 years old'

select

SELECT PNAME,TRUNC(MONTHS\_BETWEEN(SYSDATE,DOB)/12) "AGE", TRUNC(MONTHS\_BETWEEN(SYSDATE,DOJ)/12) "EXPERIENCE" FROM PROGRAMMER;   
3. SELECT MAX(SOLD) FROM SOFTWARE;   
5. SELECT PNAME, DOB FROM PROGRAMMER WHERE DOB LIKE '%APR%';   
6. SELECT MIN(CCOST) FROM STUDIES;   
7. SELECT COUNT(\*) FROM STUDIES WHERE COURSE = 'DCA';   
8. SELECT SUM(SCOST\*SOLD-DCOST) FROM SOFTWARE GROUP BY DEVIN HAVING DEVIN = 'C';   
9. SELECT \* FROM SOFTWARE WHERE PNAME = 'RAKESH';   
10. SELECT count(\*) FROM STUDIES WHERE SPLACE = 'PENTAFOUR';   
11. SELECT \* FROM SOFTWARE WHERE SCOST\*SOLD-DCOST > 5000;   
12. SELECT CEIL(DCOST/SCOST) FROM SOFTWARE;   
13. SELECT \* FROM SOFTWARE WHERE SCOST\*SOLD >= DCOST;   
14. SELECT MAX(SCOST) FROM SOFTWARE GROUP BY DEVIN HAVING DEVIN = 'VB';   
15. SELECT COUNT(\*) FROM SOFTWARE WHERE DEVIN = '1ORACLE';   
16. SELECT COUNT(\*) FROM STUDIES WHERE SPLACE = 'PRAGATHI';   
17. SELECT COUNT(\*) FROM STUDIES WHERE CCOST BETWEEN 10000 AND 15000;   
18. SELECT AVG(CCOST) FROM STUDIES;

19. SELECT \* FROM PROGRAMMER WHERE PROF1 = 'C' OR PROF2 = 'C';   
20. SELECT \* FROM PROGRAMMER WHERE PROF1 IN ('C','PASCAL') OR PROF2 IN ('C','PASCAL');   
21. SELECT \* FROM PROGRAMMER WHERE PROF1 NOT IN ('C','C++') AND PROF2 NOT IN ('C','C++');

22. SELECT TRUNC(MAX(MONTHS\_BETWEEN(SYSDATE,DOB)/12)) FROM PROGRAMMER WHERE SEX = 'M';   
23. SELECT TRUNC(AVG(MONTHS\_BETWEEN(SYSDATE,DOB)/12)) FROM PROGRAMMER WHERE SEX = 'F';   
24. SELECT PNAME, TRUNC(MONTHS\_BETWEEN(SYSDATE,DOJ)/12) FROM PROGRAMMER ORDER BY PNAME DESC;   
25. SELECT PNAME FROM PROGRAMMER WHERE TO\_CHAR(DOB,'MON') = TO\_CHAR(SYSDATE,'MON');   
26. SELECT COUNT(\*) FROM PROGRAMMER WHERE SEX = 'F';   
27. SELECT DISTINCT(PROF1) FROM PROGRAMMER WHERE SEX = 'M';   
28. SELECT AVG(SAL) FROM PROGRAMMER;   
29. SELECT COUNT(\*) FROM PROGRAMMER WHERE SAL BETWEEN 5000 AND 7500;   
30. SELECT \* FROM PROGRAMMER WHERE PROF1 NOT IN ('C','C++','PASCAL') AND PROF2 NOT IN ('C','C++','PASCAL');   
31. SELECT PNAME,TITLE,SCOST FROM SOFTWARE WHERE SCOST IN (SELECT MAX(SCOST) FROM SOFTWARE GROUP BY PNAME);

32.SELECT 'Mr.' || PNAME || ' - has ' || TRUNC(MONTHS\_BETWEEN(SYSDATE,DOJ)/12) || ' years of experience' “Programmer” FROM PROGRAMMER WHERE SEX = 'M' UNION SELECT 'Ms.' || PNAME || ' - has ' || TRUNC (MONTHS\_BETWEEN (SYSDATE,DOJ)/12) || ' years of experience' “Programmer” FROM PROGRAMMER WHERE SEX = 'F';