QUERIES - III

1) Who is the highest paid C programmer?

   select * from programmer where salary=(select max(salary) from programmer where prof1='c' or prof2='c');

| name	dob	DOJ	sex	prof1	prof2	salary
Manish	1991-03-05	2020-08-22	M	clipper	c	5200
NULL	NULL	NULL	NULL	NULL	NULL	NULL

2) Who is the highest paid female cobol programmer?

   select distinct name, salary, prof1 from programmer where (salary,prof1) in (select max(salary),prof1 from programmer group by prof1);

name	salary	prof1
Mary	4500	c
Oviya	6600	CliPPer
Saravana	5500	cobol
Shreyas	5600	dcs
Suriya	5500	cobol
NULL	NULL	NULL

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);

name	salary	prof1
Abijith	9200	basic
Kaviya	4400	basic
Mandana	8700	pascal
Oviya	6600	CliPPer
Pavithra	9800	c
Saravana	5500	cobol
Shreyas	5600	dcs
Suriya	5500	cobol
NULL	NULL	NULL

4) Who is the LEAST experienced programmer?

   select floor(datediff(current_date,doj)/365) exp,name from programmer where floor(datediff(current_date,doj)/365) = (select min(floor(datediff(current_date,doj)/365)) from programmer);

exp	name
0	Akash
0	Dharanitha
0	Jeeva
0	Kaviya
0	Narayanan
0	Padikkal
0	Pavithra
0	Ramesh
0	Saravana
0	Suriya

5) Who is the MOST experienced programmer?

select floor(datediff(current_date,doj)/365) exp,name,prof1,prof2 from programmer where floor(datediff(current_date,doj)/365) = (select max(floor(datediff(current_date,doj)/365)) from programmer);

exp	name	prof1	prof2
6	Mandana	pascal	cobol

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;

prof1
basic

7) Who is the YONGEST programmer knowing DBASE?

select floor(datediff(curdate(),dob)/365) age, name, prof1, prof2 from programmer where floor(datediff(curdate(),dob)/365) = (select min(floor(datediff(date-dob)/365)) from programmer where prof1 like 'dbase' or prof2 like 'dbase');

8) Which institute has MOST NUMBER of students?

select max(splace) from studies;

max(splace)
sabhari

9) Who is the above programmer?

select name from studies where splace=max(splace);

10) Which female programmer earns MORE than 3000/- but DOES NOT know C, C++, Oracle or Dbase?

select * from programmer where sex = 'f' and salary >3000 and (prof1 not in('c','c++','oracle','dbase') or prof2 not in('c','c++','oracle','dbase'));

name	dob	DOJ	sex	prof1	prof2	salary
Dharanitha	2001-02-01	2021-10-06	F	CliPPer	basic	3300
juna	1996-05-08	2020-04-09	F	cobol	cobol	4400
Kaviya	2001-03-03	2021-10-06	F	basic	dcs	4400
Mandana	1998-04-18	2015-06-02	F	pascal	cobol	8700
Mary	1996-12-20	2020-06-05	F	c	cobol	4500
Oviya	1992-09-10	2018-12-30	F	CliPPer	cobol	6600
Pavithra	1994-10-25	2022-01-29	F	c	pascal	9800
Priya	1974-10-10	1992-10-19	F	CliPPer	cobol	4400
Suriya	2000-11-10	2022-01-05	F	cobol	pascal	5500
Zeva	1999-06-03	2018-09-09	F	pascal	cobol	4400
NULL	NULL	NULL	NULL	NULL	NULL	NULL

11) Which is the COSTLIEST course?
Select course from studies where ccost = (select MAX(ccost) from studies);

course
pgdca

12) Which course has been done by MOST of the students?
        select course from studies group by course having count(course);

course
pgdca
pascal
dcs
cobol

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);

splace	course
bdps	dcs
sabhari	pgdca
S.S.I.L	cobol
bdps	pgdca
pragathi	pgdca
S.S.I.L	cobol
bdps	dcs
sabhari	pgdca
bdps	cobol
sabhari	pgdca

14) Which institute conducts COSTLIEST course?
        select splace from studies where ccost = (select max(ccost) from studies);

	splace
▶	S.S.I.L

15) Which course has below AVERAGE number of students?
select course from studies where count(name)<(select avg(count) from studies);

16) Which institute conducts the above course?
  select splace from studies where course in (select course from studies group by course
  having count(name) < (select avg(count(name)) from studies group by course));

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) and ccost > (select
avg(ccost)-1000 from studies);

	course
▶	pascal
	dcs
	pgdca
	pgdca
	cobol
	cobol
	pgdca
	dcs

18) Which package has the HIGEST development cost?
select title,dcost from software where dcost = (select max(dcost) from software);

	title	dcost
▶	comics graphics	19000

19) Which package has the LOWEST selling cost?
select title,scost from software where scost = (select min(scost) from software);

	title	scost
▶	intellect	199.99

20) Who developed the package, which has sold the LEAST number of copies?
  select name,sold from software where sold = (select min(sold) from software);

	name	sold
▶	Manish	0

21) Which language was used to develop the package WHICH has the HIGEST sales amount?
  select dev_in,scost from software where scost = (select max(scost) from software);

dev_in	scost
c	6999.90

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));

sold	title
3	parachutes
22	parachutes
39	parachutes

23) Which is the COSTLIEAST package developed in PASCAL?

select title from software where dcost = (select max(dcost) from software where dev_in like 'pascal');

title
dbase

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);

dev_in
pascal

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);

name
Zeva

26) Who is the author of the COSTLIEST package?

select name,dcost from software where dcost = (select max(dcost) from   software);

name	dcost
Pavithra	19000

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);

title
intellect
programmers
parachutes
dbase
market shoping
application
software
dbase
quiz game
parachutes
dining list
parachutes
ios

28) Who are the female programmers earning MORE than the HIGEST paid male programmers?
select name from programmer where sex = 'f' and salary > (select(max(salary)) from programmer where sex = 'm');

name
Pavithra
NULL

29) Which language has been stated as prof1 by MOST of the programmers?
  select prof1 from programmer group by prof1 having prof1 = (select max(prof1) from
  programmer);

prof1
pascal

30) Who are the authors of packages, WHICH have recovered MORE THAN double the
  development cost?
select name,title from software where dcost in (select min(dcost) from software group by dev_in);

name	title
Abijith	ios
Akash	cobol pascal
Dhevdutt	programmers
Maddy	parachutes
Manish	market shoping
Oviya	software
Priya	ios
Ramesh	quiz game
Somdutt	simple
Suriya	parachutes

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

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);

name	dev_in
Abijith	apple
Akash	basic
Devdutt	cobol
Dharanitha	dbase
Dhevdutt	pascal
Jeeva	apple
Kaviya	dbase
Maddy	c
Madhavan	cobol
Manish	c
Mary	pascal
Oviya	oracle
Padikal	pascal
Pavithra	basic
Priya	apple
Ramesh	cobol
Ravi	dbase
Saravana	apple
Somdutt	c
Suriya	dbase
Zeva	apple

32) Who is the YOUNGEST male programmer born in 1965?

select name from programmer where dob=(select (max(dob)) from programmer where year(dob) ='1965');

name
Narayanan
NULL

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

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);

name	dev_in
Dharanitha	dbase
Dhevdutt	pascal
Jeeva	apple
Kaviya	dbase
Maddy	c
Madhavan	c
Mandana	c
Manish	c
Mary	pascal
Oviya	oracle
Padikal	pascal
Pavithra	basic
Priya	apple
Ramesh	cobol
Ravi	dbase
Saravana	apple
Somdutt	c
Suriya	dbase
Zeva	apple

34) Who is the OLDEST female programmer WHO joined in 1992
select name from programmer where doj=(select (min(doj)) from programmer where year(doj)='1992' and sex='F');

name
Priya
NULL

35) In WHICH year where the MOST NUMBER of programmer born?
select distinct year(dob) from programmer where year(doj) = (select min(year(doj)) from programmer);

year(dob)
1961

36) In WHICH month did MOST NUMBRER of programmer join?
select distinct month(doj) from programmer where month(doj) = (select max(month(doj)) from programmer);

month(doj)
12

37) In WHICH language are MOST of the programmer's proficient?
select max(prof1)as highest_no_of_proficient_language from programmer;

Result Grid	Filter Rows:
highest_no_of_proficient_language
▶ pascal

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

select name from programmer where sex = 'm' and salary < (select(avg(salary))from programmer
where sex = 'f');

Result Grid
name
▶ Devdutt
Dhevdutt
Jeeva
Manish
Narayanan
Padikkal
Ramesh
Ravi
Saravana
Somdutt
* NULL