Assignment

QUERIES - I

1) Find out the SELLING COST AVERAGE for the packages developed in PASCAL?
   select avg(scost) from sql_queries.software where dev_in like 'pascal';

Result Grid

	AVG (SCOST)
▶	666.926667

2) Display the names and ages of all programmers.
   select name as name,floor(datediff(current_date,dob)/365) as age from sql_queries.programmer;

Result Grid Filter R

	name	age
▶	Abijith	24
	Akash	22
	Devdutt	26
	Dharanitha	21
	Dhevdutt	24
	Jeeva	21
	juna	25
	Kaviya	21
	Madhavan	24
	Mandana	23
	Manish	61
	Mary	25
	Narayanan	56
	Oviya	29
	Padikkal	22
	Pavithra	27
	Priya	47
	Ramesh	21
	Ravi	23
	Saravana	29
	Shreyas	31
	Somdutt	30
	Suriya	21
	Zeva	22

3) Display the names and ages of all the programmers who have undergone training in DCS course.
   select p.name,floor(datediff(current_timestamp,dob)/365)as age,course from programmer p,studies st where p.name=st.name and course like 'dcs';

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	age	course
Devdutt	26	dcs
Jeeva	21	dcs
Mandana	23	dcs
Pavithra	27	dcs
Saravana	29	dcs
Suriya	21	dcs

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

select max(sold) from sql_queries.software;

Result Grid

MAX(SOLD)
199

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

select dob,name from programmer where month(dob)=1;

Result Grid | Filter

dob	name
1999-01-01	Ravi
NULL	NULL

6) Display lowest course fee.

select min(ccost) from sql_queries.studies;

Result Grid

MIN(CCOST)
1900

7) How many programmer has done PGDCA course.

select name from sql_queries.studies where course like "pgdca";

Result Grid

name
Abijith
Dharanitha
Kaviya
Mary
Mayank
Oviya
Priya
Somdutt
NULL

8) How much revenue has been earned through sales of packages in C?

select sum(sold*scost) from sql_queries.software where dev_in like 'c';

Result Grid

sum(sold*scost)
93019.20

9) Display the details of software developed by Ramesh?

select * from sql_queries.software where name='ramesh';

Result Grid | Filter Rows: | Edit:

Name	title	dev_in	scost	dcost	sold
Ramesh	quiz game	cobol	3999.99	5700	1
NULL	NULL	NULL	NULL	NULL	NULL

10) How many programmers studied at SABHARI?

select count(name) from sql_queries.studies where splace='sabhari';

Result Grid

count(name)
7

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

select * from sql_queries.software where sold*scost>20000;

Result Grid | Filter Rows: | Edit:

Name	title	dev_in	scost	dcost	sold
Abijith	parachutes	apple	499.99	6000	44
Akash	cobol pascal	basic	399.90	4000	89
Dharanitha	management system	dbase	899.99	9000	68
Jeeva	ios	apple	1090.79	7800	47
Kaviya	technical ueries	dbase	999.90	10000	102
Maddy	parachutes	c	6999.90	9000	3
Madhavan	dbase	cobol	2999.89	6500	7
Pavithra	comics graphics	basic	2399.39	19000	199
Priya	ios	apple	1999.90	1200	88
Ravi	parachutes	dbase	1009.99	12000	22
Somdutt	simple	c	1039.99	6000	43
Suriya	parachutes	dbase	599.39	5500	39
NULL	NULL	NULL	NULL	NULL	NULL

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

select *,round(dcost/scost) from sql_queries.software where scost*sold<dcost;

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Name	title	dev_in	scost	dcost	sold	ROUND(DCOST/SCOST)
Devdutt	intellect	cobol	199.99	6700	12	34
Manish	market shoping	c	3899.99	7700	0	2
Oviya	software	oracle	1199.99	7700	3	6
Ramesh	quiz game	cobol	3999.99	5700	1	1

13) What is the price of the costliest software developed in BASIC?

select max(scost) as maximum from sql_queries.software where dev_in like 'basic';

Result Grid

maximum
2399.39

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

select * from sql_queries.software where (sold*scost)>dcost;

Result Grid | Filter Rows: | Edit: | Exp

Name	title	dev_in	scost	dcost	sold
Abijith	ios	apple	499.99	6000	44
Akash	cobol pascal	basic	399.90	4000	89
Dharanitha	management system	dbase	899.99	9000	68
Dhevdutt	programmers	pascal	1000.90	6000	6
Jeeva	ios	apple	1090.79	7800	47
Kaviya	technical ueries	dbase	999.90	10000	102
Maddy	parachutes	c	6999.90	999	3
Madhavan	dbase	c	2999.89	6500	7
Mandana	webpage	c	999.99	9000	15
Mary	application	pascal	499.99	6700	16
Padikal	dbase	pascal	499.89	9500	25
Pavithra	comics graphics	basic	2399.39	19000	199
Priya	ios	apple	1999.90	899	88
Ravi	parachutes	dbase	1009.99	12000	22
Saravana	dining list	apple	499.79	7300	19
Somdutt	simple	c	1039.99	6000	43
Suriya	parachutes	dbase	599.39	5500	39
Zeva	ios	apple	499.90	7900	18
NULL	NULL	NULL	NULL	NULL	NULL

x

15) How many packages were developed in dbase?

select count(title) as total from sql_queries.software where dev_in='dbase';

Result Grid

Total
5

16) How many programmers studies at Pragathi?

select count(name) as count from sql_queries.studies where splace='pragathi';

Result Grid

count
6

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

select count(name) as programmers from sql_queries.studies where ccost>=5000 and ccost<=10000;

Result Grid

PROGRAMMERS
13

18) What is the average course fee?

select avg(ccost) as averagecost from sql_queries.studies;

Result Grid | F

AVERAGECOST
5280.0000

19) Display the details of programmers knowing c?

select * from sql_queries.programmer where prof1='c' or prof2='c';

Result Grid | Filter Rows: | Edit:

name	dob	DOJ	sex	prof1	prof2	salary
Devdutt	1996-02-08	2019-08-09	M	pascal	c	4400
Dhevdutt	1998-04-04	2020-01-29	M	cobol	c	4700
Manish	1991-03-05	2020-08-22	M	clipper	c	5200
Mary	1996-12-20	2020-06-05	F	c	cobol	4500
Padikkal	1999-06-09	2021-09-26	M	pascal	c	3300
Pavithra	1994-10-25	2022-01-29	F	c	pascal	3200
Priya	1996-10-10	2019-10-19	F	CliPPer	c	4400
Somdutt	1992-02-10	2019-08-28	M	c	basic	3200
NULL	NULL	NULL	NULL	NULL	NULL	NULL

20) How many programmers know either Cobol or Pascal?

select count(name) as programmers from sql_queries.programmer where prof1 in ('cobol' ,'pascal') or prof2 in ('cobol' ,'pascal');

Result Grid

PROGRAMMERS
17

21) How many programmers don't know Pascal & C?

select count(name) as programmers from sql_queries.programmer where prof1 not in ('c','pascal') and prof2 not in ('c','pascal');

Result Grid

PROGRAMMERS
6

22) How old is the oldest male programmers?

select max(floor(datediff(current_date,dob)/365)) age from sql_queries.programmer where sex='m';

Result Grid

age
31

23) What is the average age of female programmers?

select avg(floor(datediff(current_date,dob)/365)) as averageage from sql_queries.programmer where sex='F';

Result Grid

averageage
35.0000

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

select name,floor(datediff(current_date,doj)/365) as experience from sql_queries.programmer order by name desc ;

Result Grid | Filter R

name	experience
Zeva	3
Suriya	0
Somdutt	2
Shreyas	4
Saravana	0
Ravi	1
Ramesh	0
Priya	2
Pavithra	0
Padikkal	0
Oviya	3
Narayanan	0
Mary	1
Manish	1
Mandana	6
Madhavan	2
Kaviya	0
Jeeva	0
Dhevdutt	2
Dharanitha	0
Devdutt	2
Akash	0
Abijith	1

25) Who are the programmers who celebrate their birthday during the current month?
select name as current_month_birthday from programmer where month(dob)=month(current_date());

Result Grid | Filter Row

current_month_birthday
Abijith
Dhevdutt
Mandana

26) How many female programmers are there?
select count(name) female_progammer from sql_queries.programmer where sex='f';

Result Grid | Filter R

FEMALE_PROGAMMER
9

27) What are the languages known by the male programmers?
select distinct prof1 from sql_queries.programmer where sex='m' union select distinct prof2 from sql_queries.programmer where sex='m';

Result Grid

PROF1
basic
pascal
cobol
clipper
dcs
c

28) What is the Average salary?

select avg(salary) as avgsal from sql_queries.programmer;

Result Grid

AVGSAL
5065.2174

29) How many people draw 2000 to 4000?

select name from programmer where salary between 2000 and 4000;

Result Grid

name
Dharanitha
Narayanan
Padikkal
Pavithra
Ramesh
Somdutt
NULL

30) Display the details of those who don't know Clipper, Cobol or Pascal?

select name from sql_queries.programmer where prof1 not in ('clipper','cobol','pascal') and prof2 not in ('clipper','cobol','pascal');

Result Grid

name
Kaviya
Ravi
Somdutt
NULL

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

select count(name) from sql_queries.programmer where sex='f' and (prof1='c' or prof2='c') and (floor(datediff(current_date,dob)/365)) > 24;

Result Grid

Female_above_24
3

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

select name from programmer where week(dob) = week(curdate());

Result Grid

name
Dhevdutt
NULL

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

select * from sql_queries.programmer where floor(datediff(current_date,doj)/365)<1;

Result Grid | Filter Rows: | Edit: | Ex

name	dob	DOJ	sex	prof1	prof2	salary
Akash	1999-07-31	2021-11-11	M	pascal	cobol	7400
Dharanitha	2001-02-01	2021-10-06	F	CliPPer	basic	3300
Jeeva	2000-10-06	2022-03-07	M	pascal	clipper	4400
Kaviya	2001-03-03	2021-10-06	F	basic	dcs	4400
Narayanan	2000-11-07	2021-11-07	M	dcs	cobol	3900
Padikkal	1999-06-09	2021-09-26	M	pascal	c	3300
Pavithra	1994-10-25	2022-01-29	F	c	pascal	3200
Ramesh	2000-10-31	2021-12-10	M	pascal	cobol	3700
Saravana	1993-02-25	2022-02-01	M	cobol	pascal	5500
Suriya	2000-11-10	2022-01-05	F	Cobol	pascal	5500
NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

select name from sql_queries.programmer where floor(datediff(current_date,doj)/365)=2;

Result Grid

name
Devdutt
Dhevdutt
Madhavan
Priya
Somdutt
NULL

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

select (dcost-(scost*sold)), title from sql_queries.software where (scost*sold)<dcost;

Result Grid | Filter Rows:

(DCOST-(SCOST*SOLD))	TITLE
4300.12	intellect
7700.00	market shoping
4100.03	software
1700.01	quiz game

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

select * from sql_queries.software where sold=0;

Result Grid | Filter Rows: | Edit:

Name	title	dev_in	scost	dcost	sold
Manish	market shoping	c	3899.99	7700	0
NULL	NULL	NULL	NULL	NULL	NULL

37) Find out the cost of the software developed by Mary?

select title,scost from sql_queries.software where name='mary';

Result Grid | Filter

title	scost
application	499.99

38) Display the institute's names from the studies table without duplicates?

select distinct splace from sql_queries.studies;

Result Grid

splace
S.S.I.L
pragathi
bdps
sabhari

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

select distinct course from sql_queries.studies;

Result Grid

course
pgdca
pascal
dcs
cobol

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

select name from sql_queries.programmer where name like '%A%A%';

Result Grid

name
Akash
Dharanitha
Kaviya
Madhavan
Mandana
Narayanan
Padikkal
Pavithra
Saravana
NULL

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

SELECT NAME FROM sql_queries.PROGRAMMER WHERE LENGTH(NAME)=5;

Result Grid

NAME
Akash
Jeeva
Oviya
Priya

42) How many female programmers knowing COBOL have more than 2 years experience?

SELECT NAME FROM sql_queries.PROGRAMMER WHERE sex='F' and (prof1='cobol'or prof2='cobol') and floor(datediff(current_date,doj)/365)>2;

Result Grid

NAME
Mandana
Oviya
Zeva

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

select min(length(name)) as shortestname from sql_queries.programmer;

Result Grid

shortestname
4

44) What is the average development cost of a package developed in COBOL?

select avg(dcost) from sql_queries.software where dev_in='cobol';

Result Grid

AVG(DCOST)
6300.0000

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;

Result Grid

name
Akash
Ramesh
NULL

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

select name,salary from programmer where sex='m' and (prof1!='cobol' or prof2!='cobol');

Result Grid Filt

name	salary
Abijith	9200
Akash	7400
Devdutt	4400
Dhevdutt	4700
Jeeva	4400
Madhavan	6600
Manish	5200
Narayanan	3900
Padikkal	3300
Ramesh	3700
Ravi	4400
Saravana	5500
Shreyas	5600
Somdutt	3200
NULL	NULL

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

select title, scost, dcost, dcost-scost as diff from software order by diff desc;

Result Grid | Filter Rows: | Ex

title	scost	dcost	diff
comics graphics	2399.39	19000	16600.61
parachutes	1009.99	12000	10990.01
dbase	499.89	9500	9000.11
technical ueries	999.90	10000	9000.10
management system	899.99	9000	8100.01
ios	499.90	7900	7400.10
dining list	499.79	7300	6800.21
ios	1090.79	7800	6709.21
intellect	199.99	6700	6500.01
software	1199.99	7700	6500.01
application	499.99	6700	6200.01
parachutes	499.99	6000	5500.01
programmers	1000.90	6000	4999.10
simple	1039.99	6000	4960.01
parachutes	599.39	5500	4900.61
market shoping	3899.99	7700	3800.01
cobol pascal	399.90	4000	3600.10
dbase	2999.89	6500	3500.11
parachutes	6999.90	9000	2000.10
quiz game	3999.99	5700	1700.01
ios	1999.90	1200	-799.90

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

select name from programmer where month(dob)=month(doj);

Result Grid

name
Narayanan
Priya
Ravi
Saravana
NULL

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

select title from software where title like '% %';

Result Grid | Filter

title
cobol pascal
management system
technical ueries
market shoping
comics graphics
quiz game
dining list