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

```
SELECT AVG (SCOST) FROM SOFTWARE WHERE DEV_IN LIKE 'PASCAL';
```

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

```
SELECT MAX(scost) FROM SOFTWARE;
```

3) Display lowest course fee.

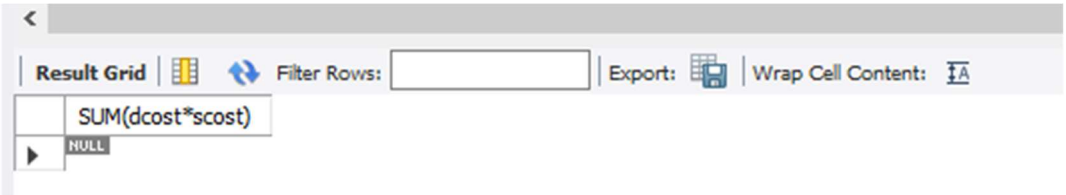
```
SELECT MIN(CCOST) FROM STUDIES;
```

4) How many programmer has done PGDCA course.

```
SELECT COUNT (NAME) FROM STUDIES WHERE COURSE LIKE 'PGDCA';
```

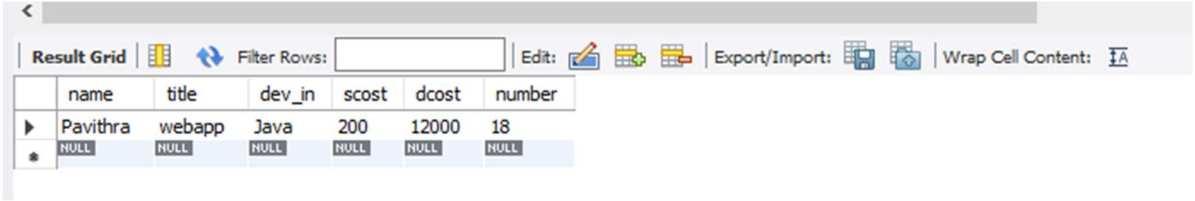
5) How much revenue has been earned through sales of packages in C.

```
SELECT SUM(SOLD*SCOST) FROM SOFTWARE WHERE DEV_IN LIKE 'C';
```



6)Display the details of software developed by Pavithra?

```
SELECT * FROM SOFTWARE WHERE NAME='Pavithra';
```

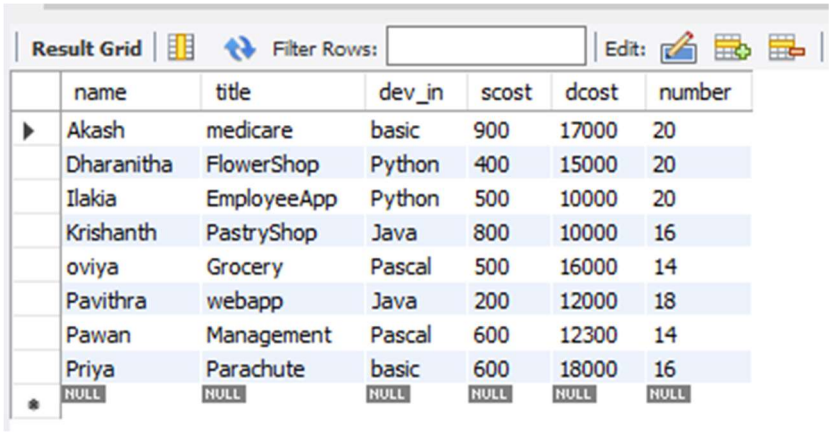


7)How many programmers studied at dcs.

```
SELECT COUNT(NAME) AS NOPROGRAMMERS FROM STUDIES WHERE SPLACE='dcs';
```

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

```
SELECT * FROM SOFTWARE WHERE (SOLD*SCOST)>20000;
```



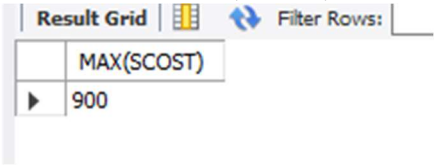
name	title	dev_in	scost	dcost	number
Akash	medicare	basic	900	17000	20
Dharanitha	FlowerShop	Python	400	15000	20
Ilakia	EmployeeApp	Python	500	10000	20
Krishanth	PastryShop	Java	800	10000	16
oviya	Grocery	Pascal	500	16000	14
Pavithra	webapp	Java	200	12000	18
Pawan	Management	Pascal	600	12300	14
Priya	Parachute	basic	600	18000	16
NULL	NULL	NULL	NULL	NULL	NULL

9)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 SOFTWARE WHERE SCOST*SOLD<DCOST;
```

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

```
SELECT MAX(SCOST) FROM SOFTWARE WHERE DEV_IN LIKE 'BASIC';
```



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

```
SELECT * FROM SOFTWARE WHERE (*SCOST)>DCOST;
```

12) How many packages were developed in dbase?

```
SELECT COUNT (TITLE) AS TOTAL FROM SOFTWARE WHERE DEV_IN='DBASE';
```

```
SELECT * FROM SOFTWARE WHERE (number*SCOST)>DCOST;
```

name	title	dev_in	scost	dcost	number
Akash	medicare	basic	900	17000	20
Krishanth	PastryShop	Java	800	10000	16
NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Filte

TOTAL
0

13) How many programmers studies at sabari?

```
SELECT COUNT(NAME) FROM STUDIES WHERE SPLACE='sabari';
```

Result Grid | Filter I

COUNT(NAME)
0

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

```
SELECT COUNT(NAME) AS NO_OF_PROGRAMMERS FROM STUDIES WHERE CCOST>=5000 AND
CCOST<=10000;
```

Result Grid | Filter Rows:

NO_OF_PROGRAMMERS
4

15) What is the average course fee?

```
SELECT AVG (COST) AS AVERAGECOST FROM STUDIES;
```

Result Grid | Filter I

AVERAGECOST
4000

16) Display the details of programmers knowing c?

```
SELECT * FROM PROGRAMMER WHERE PROF1='C' OR PROF2='C';
```

Result Grid | Filter Rows: | Edit: | Export/I

name	DOB	DOJ	sex	prof1	prof2	salary
Dakshith	2000-12-22	2021-11-26	M	Python	C	9000
Hari	2000-01-26	2021-05-12	M	Java	C	5000
Havish	2000-12-25	2021-08-15	M	C	C++	9000
Ilakia	2000-01-02	2021-03-22	F	C	Java	5000
Kavitha	2000-11-02	2021-01-20	F	C	Pascal	5000
Krish	2000-08-27	2021-07-23	M	Pascal	C	9000
Tejas	2000-03-28	2021-12-25	M	C	C++	3000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

17)How many female programmers are there?

```
SELECT COUNT (NAME) FEMALE_PROG FROM PROGRAMMER WHERE SEX='F';
```

Result Grid | Filter Rows: | Edit: | Export/I

name	DOB	DOJ	sex	prof1	prof2	salary
Dakshith	2000-12-22	2021-11-26	M	Python	C	9000
Hari	2000-01-26	2021-05-12	M	Java	C	5000
Havish	2000-12-25	2021-08-15	M	C	C++	9000
Ilakia	2000-01-02	2021-03-22	F	C	Java	5000
Kavitha	2000-11-02	2021-01-20	F	C	Pascal	5000
Krish	2000-08-27	2021-07-23	M	Pascal	C	9000
Tejas	2000-03-28	2021-12-25	M	C	C++	3000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

18)What is the Average salary?

```
SELECT AVG (SALARY) AS AVGSAL FROM PROGRAMMER;
```

Result Grid | Filter

AVGSAL
6307.6923

19)How many people draw 2000 to 4000?

```
SELECT NAME FROM PROGRAMMER WHERE SALARY BETWEEN 2000 AND 4000;
```

Result Grid | F

NAME
Pawan
Tejas

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

```
SELECT TITLE, SCOST, DCOST, DCOST -SCOST DIFF FROM SOFTWARE ORDER BY
4 DESC;
```

Result Grid | Filter Rows:

TITLE	SCOST	DCOST	DIFF
Parachute	600	18000	17400
medicare	900	17000	16100
Grocery	500	16000	15500
FlowerShop	400	15000	14600
webapp	200	12000	11800
Management	600	12300	11700
EmployeeApp	500	10000	9500
PastryShop	800	10000	9200

21) 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 | Filter Rows:

NAME

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

```
SELECT NAME, SEX ,
SUBSTR(DOB,1,2)||'/'||SUBSTR(DOB,4,3)||'/'||SUBSTR(DOB,8,2) DOB,
SUBSTR(DOJ,1,2)||'/'||SUBSTR(DOJ,4,3)||'/'||SUBSTR(DOJ,8,2) DOJ FROM
PROGRAMMER;
```

Result Grid | Filter Rows:

NAME	SEX	DOB	DOJ
Aarav	M	1	1
Dakshith	M	1	1
Gandhi	M	1	1
Hari	M	1	1
Havish	M	1	1
Ilakia	F	1	1
Kavitha	F	1	1

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

```
SELECT TITLE FROM SOFTWARE WHERE TITLE LIKE '% %';
```

Result Grid

TITLE

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

```
SELECT MIN(LENGTH(NAME)) FROM PROGRAMMER;
```

Result Grid | Filter Rows:

MIN(LENGTH(NAME))
3

25) Display the names of programmers whose names contain upto 5 characters?

```
SELECT NAME FROM PROGRAMMER WHERE LENGTH(NAME)=5;
```

Result Grid

NAME
Aarav
Krish
Pawan
Tejas

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

```
SELECT NAME FROM PROGRAMMER WHERE NAME LIKE '%A%A%';
```

NAME
Aarav
Ilakia
Kavitha
pavithra
Pawan

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

```
SELECT DISTINCT COURSE FROM STUDIES;
```

COURSE
hsio
dcs
pgdca
gpa
dca
pdgca

28) Display the institutes names from the studies table without duplicates?

```
SELECT DISTINCT SPLACE FROM STUDIES;
```

SPLACE
bdps
sabhari
kwgs
hgbs
agfs

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

```
SELECT * FROM PROGRAMMER WHERE PROF1 NOT IN ('CLIPPER','COBOL','PASCAL')
AND PROF2 NOT IN ('CLIPPER','COBOL','PASCAL');
```

Result Grid | Filter Rows: | Edit: | Export/

name	DOB	DOJ	sex	prof1	prof2	salary
Dakshith	2000-12-22	2021-11-26	M	Python	C	9000
Gandhi	2000-10-01	2021-02-21	M	C++	Java	6000
Hari	2000-01-26	2021-05-12	M	Java	C	5000
Havish	2000-12-25	2021-08-15	M	C	C++	9000
Ilakia	2000-01-02	2021-03-22	F	C	Java	5000
pavithra	2000-11-02	2021-11-23	F	Java	C++	9000
Pawan	2000-08-05	2021-06-15	M	Ruby	C++	4000
Sujesh	2000-02-12	2021-09-17	M	Java	C++	7000
Tejas	2000-03-28	2021-12-25	M	C	C++	3000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

30) How many female programmers are there?

```
SELECT COUNT (NAME) FEMALE_PROG FROM PROGRAMMER WHERE SEX='F';
```

Result Grid

FEMALE_PROG
3

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

```
 SELECT COUNT (NAME) AS PROGRAMMERS FROM PROGRAMMER WHERE PROF1 NOT IN
('C','PASCAL')
AND PROF2 NOT IN ('C','PASCAL');
```

PROGRAMMERS
4

32)Who is the highest paid C programmer?

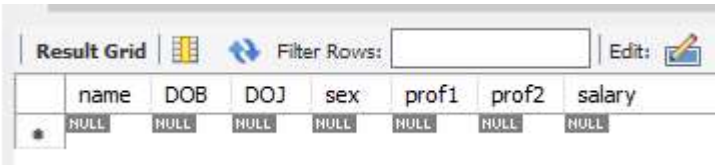
```
SELECT * FROM PROGRAMMER WHERE SALARY=(SELECT MAX(SALARY) FROM PROGRAMMER
WHERE PROF1 LIKE 'C' OR PROF2 LIKE 'C');
```

Result Grid | Filter Rows: | Edit: | Expo

name	DOB	DOJ	sex	prof1	prof2	salary
Dakshith	2000-12-22	2021-11-26	M	Python	C	9000
Havish	2000-12-25	2021-08-15	M	C	C++	9000
Krish	2000-08-27	2021-07-23	M	Pascal	C	9000
pavithra	2000-11-02	2021-11-23	F	Java	C++	9000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

33)Who is the highest paid female cobol programmer?

```
SELECT * FROM PROGRAMMER WHERE SALARY=(SELECT MAX(SALARY) FROM PROGRAMMER
WHERE (PROF1 LIKE 'COBOL' OR PROF2 LIKE 'COBOL')) AND SEX LIKE 'F';
```



34)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
Aarav	5000	COBALl
Dakshith	9000	Python
Gandhi	6000	C++
Havish	9000	C
Krish	9000	Pascal
pavithra	9000	Java
Pawan	4000	Ruby

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
COBALl
Ruby

9) 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
Ilakia	2000-01-02	2021-03-22	F	C	Java	5000
Kavitha	2000-11-02	2021-01-20	F	C	Pascal	5000
pavithra	2000-11-02	2021-11-23	F	Java	C++	9000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

10) Which is the COSTLIEST course?

```
SELECT COURSE FROM STUDIES WHERE CCOST = (SELECT MAX(CCOST) FROM STUDIES);
```

Result Grid

COURSE
dca

12) 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);
```

Result Grid | Filter R

SPLACE	COURSE
bdps	pgdca
bdps	pgdca
sabhari	dcs
sabhari	dcs
sabhari	dca

13) Which institute conducts COSTLIEST course?

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

Result Grid

SPLACE
bdps

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');
```

NAME
Aarav
Gandhi
Hari
Pawan
Sai
Tejas

3) Display THE NUMBER OF male and female programmer.

```
      SELECT SEX,COUNT(NAME) FROM PROGRAMMER GROUP BY SEX;
```

tesult Grid | Filter Rov

SEX	COUNT(NAME)
M	10
F	3

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

```
 SELECT DEV_IN,MAX(SCOST),MAX(dcost) FROM SOFTWARE GROUP BY DEV_IN;
```

Result Grid | Filter Rows:

DEV_IN	MAX(scost)	MAX(dcost)
basic	900	18000
Python	500	15000
Java	800	12000
Pascal	600	16000

Display THE NUMBER OF people BORN in EACH YEAR.

```
SELECT TO_CHAR(DOB,'YY') AS YEAR,COUNT(NAME) FROM PROGRAMMER GROUP BY
TO_CHAR(DOB,'YY');
```

YEAR	COUNT(NAI
2000-11-14	1
2000-12-22	1
2000-10-01	1
2000-01-26	1
2000-12-25	1
2000-01-02	1
2000-11-02	2
2000-08-27	1
2000-08-05	1
2000-12-23	1
2000-02-12	1
2000-03-28	1

6) Display THE NUMBER OF people JOINED in EACH YEAR.

```
SELECT TO_CHAR(DOJ,'YY') AS YEAR,COUNT(NAME) FROM PROGRAMMER GROUP BY
TO_CHAR(DOJ,'YY');
```

Result Grid | Filter Ro

YEAR	COUNT(NAME)
YY	13

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

```
      SELECT SUBSTR(DOB,4,3),COUNT(NAME) FROM PROGRAMMER GROUP BY
SUBSTR(DOB,4,3);
```

Result Grid | Filter Rows:

SUBSTR(DOB,4,3)	COUNT(NAME)
0-1	7
0-0	6

9) Display the language wise COUNTS of prof1.

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

Result Grid | Filter Rov

PROF1	COUNT(PROF1)
COBALI	1
Python	1
C++	1
Java	3
C	4
Pascal	2
Ruby	1

10) Display the language wise COUNTS of prof2.

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

Result Grid | Filter Rows:

PROF2	COUNT(PROF2)
PASCAL	2
C	3
Java	2
C++	5
python	1

11) Display THE NUMBER OF people in EACH salary group.

```
SELECT SALARY,COUNT(NAME) FROM PROGRAMMER GROUP BY SALARY;
```

Result Grid | Filter Rows:

SALARY	COUNT(NAME)
5000	4
9000	4
6000	2
4000	1
7000	1
3000	1

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

```
SELECT SPLACE,COUNT(NAME) FROM STUDIES GROUP BY SPLACE;
```

Result Grid | Filter

SPLACE	COUNT(NAME
bdps	4
sabhari	4
kwgs	1
hgbs	1
agfs	1

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

```
SELECT COURSE ,COUNT(NAME) FROM STUDIES GROUP BY COURSE;
```

COURSE	COUNT(NAME)
hsio	1
dcs	4
pgdca	2
gpa	1
dca	2
pdgca	1

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

```
SELECT DEV_IN LANG,SUM(DCOST) TOTAL_COST FROM SOFTWARE GROUP BY
DEV_IN;
```

Result Grid | Filter

LANG	TOTAL_COST
basic	35000
Python	25000
Java	22000
Pascal	28300

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

```
SELECT NAME,SUM(DCOST) AS TOTAL_COST FROM SOFTWARE GROUP BY NAME;
```

NAME	TOTAL_COST
Akash	17000
Dharanitha	15000
Ilakia	10000
Krishanth	10000
oviya	16000
Pavithra	12000
Pawan	12300
Priya	18000

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

```
SELECT NAME,COUNT(TITLE) AS TOTAL_PACK FROM SOFTWARE GROUP BY NAME;
```

Result Grid | Filter Rows:

NAME	TOTAL_PACK
Akash	1
Dharanitha	1
Ilakia	1
Krishanth	1
oviya	1
Pavithra	1
Pawan	1
Priya	1

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

```
SELECT DEV_IN, SUM(SCOST) FROM SOFTWARE GROUP BY DEV_IN;
```

DEV_IN	SUM(SCOST)
basic	1500
Python	900
Java	1000
Pascal	1100

20) Display EACH programmers name,costliest package,cheapest packages developed by His/Her?

```
SELECT NAME,MIN(DCOST),MAX(DCOST) FROM SOFTWARE GROUP BY NAME;
```

Result Grid | Filter Rows:

NAME	MIN(DCOST)	MAX(DCOST)
Akash	17000	17000
Dharanitha	15000	15000
Ilakia	10000	10000
Krishanth	10000	10000
oviya	16000	16000
Pavithra	12000	12000
Pawan	12300	12300
Priya	18000	18000

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

```
SELECT DEV_IN,AVG(DCOST),AVG(SCOST),AVG(SCOST) FROM SOFTWARE GROUP BY DEV_IN;
```

Result Grid | Filter Rows: | Export:

DEV_IN	AVG(DCOST)	AVG(SCOST)	AVG(SCOST)
basic	17500.0000	750.0000	750.0000
Python	12500.0000	450.0000	450.0000
Java	11000.0000	500.0000	500.0000
Pascal	14150.0000	550.0000	550.0000

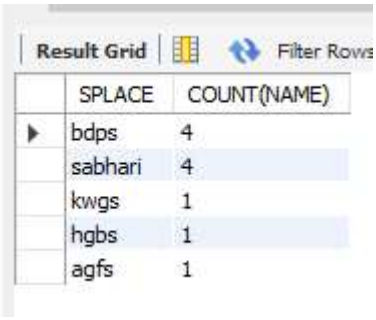
22) Display EACH institute name with NUMBER of courses, AVERAGE cost per course.

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

SPLACE	COUNT(COURSE)	AVG(COST)
bdps	4	4250
sabhari	4	3375
kwgs	1	5000
hgbs	1	4500
agfs	1	4000

23) Display EACH institute name with NUMBER of students.

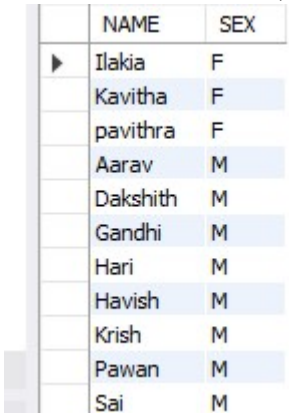
```
SELECT SPLACE,COUNT(NAME) FROM STUDIES GROUP BY SPLACE;
```



SPLACE	COUNT(NAME)
bdps	4
sabhari	4
kwgs	1
hgbs	1
agfs	1

24) Display names of male and female programmers.

```
SELECT NAME,SEX FROM PROGRAMMER ORDER BY SEX;
```



NAME	SEX
Ilakia	F
Kavitha	F
pavithra	F
Aarav	M
Dakshith	M
Gandhi	M
Hari	M
Havish	M
Krish	M
Pawan	M
Sai	M

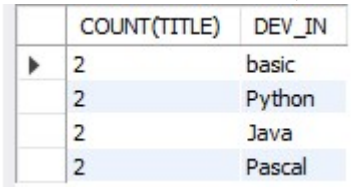
25) Display the programmer's name and their packages.

```
SELECT NAME,TITLE FROM SOFTWARE ORDER BY NAME;
```

NAME	TITLE
Akash	medicare
Dharanitha	FlowerShop
Ilakia	EmployeeApp
Krishanth	PastryShop
oviya	Grocery
Pavithra	webapp
Pawan	Management
Priya	Parachute

26) Display the NUMBER of packages in EACH language.

```
SELECT COUNT(TITLE),DEV_IN FROM SOFTWARE GROUP BY DEV_IN;
```



COUNT(TITLE)	DEV_IN
2	basic
2	Python
2	Java
2	Pascal

27) Display the NUMBER of packages in EACH language for which development cost is less than
1000.

```
SELECT COUNT(TITLE),DEV_IN FROM SOFTWARE WHERE DCOST<1000 GROUP BY
DEV_IN;
```

Result Grid | Filter Rows:

	COUNT(TITLE)	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;
```

DEV_IN	AVG(DCOST - SCOST)
basic	16750.0000
Python	12050.0000
Java	10500.0000
Pascal	13600.0000

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

```
SELECT SUM(SCOST), SUM(DCOST), SUM(DCOST-(SOLD*SCOST)) FROM SOFTWARE
GROUP BY NAME
HAVING SUM(DCOST)>SUM(SOLD*SCOST);
```

	SUM(SCOST)	SUM(DCOST)	SUM(DCOST-(dcost*SCOST))

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

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

Result Grid | Filter Rows: | Exp

	MAX(SALARY)	MIN(SALARY)	AVG(SALARY)
▶	9000	3000	6307.6923

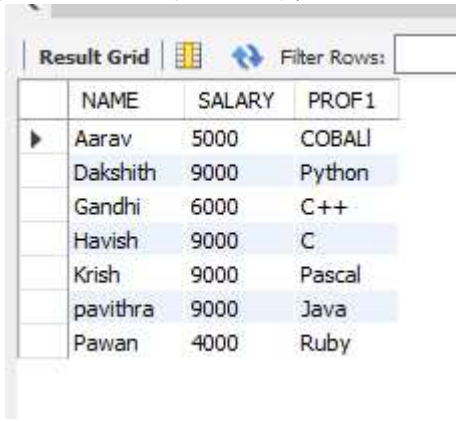
1) Who is the highest paid C programmer?

```
SELECT * FROM PROGRAMMER WHERE SALARY=(SELECT MAX(SALARY) FROM PROGRAMMER
WHERE PROF1 LIKE 'C' OR PROF2 LIKE 'C');
```

▶	Dakshith	2000-12-22	2021-11-26	M	Python	C	9000
	Havish	2000-12-25	2021-08-15	M	C	C++	9000
	Krish	2000-08-27	2021-07-23	M	Pascal	C	9000
	pavithra	2000-11-02	2021-11-23	F	Java	C++	9000
*	NULL	NULL	NULL	NULL	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);
```

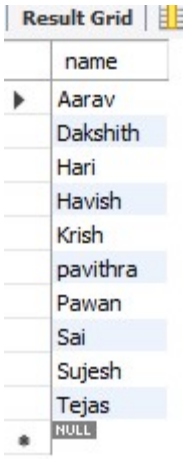


Result Grid | Filter Rows:

NAME	SALARY	PROF1
Aarav	5000	COBALl
Dakshith	9000	Python
Gandhi	6000	C++
Havish	9000	C
Krish	9000	Pascal
pavithra	9000	Java
Pawan	4000	Ruby

4) Who is the LEAST experienced programmer?

```
SELECT name FROM PROGRAMMER WHERE
FLOOR(DATEDIFF(CURRENT_TIMESTAMP,DOJ)/365)1;
```

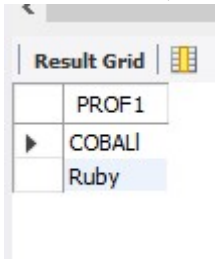


Result Grid

name
Aarav
Dakshith
Hari
Havish
Krish
pavithra
Pawan
Sai
Sujesh
Tejas
NULL

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;
```



Result Grid

PROF1
COBALl
Ruby

9) 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'));
```

Result Grid | Filter Rows: | Edit: | Ex

name	DOB	DOJ	sex	prof1	prof2	salary
Ilakia	2000-01-02	2021-03-22	F	C	Java	5000
Kavitha	2000-11-02	2021-01-20	F	C	Pascal	5000
pavithra	2000-11-02	2021-11-23	F	Java	C++	9000
NULL	NULL	NULL	NULL	NULL	NULL	NULL

10) Which is the COSTLIEST course?

```
SELECT COURSE FROM STUDIES WHERE CCOST = (SELECT MAX(CCOST) FROM STUDIES);
```

COURSE
dca

12) 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);
```

Result Grid | Filter

SPLACE	COURSE
bdps	pgdca
bdps	pgdca
sabhari	dcs
sabhari	dcs
sabhari	dca

13) Which institute conducts COSTLIEST course?

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

Result Grid

SPLACE
bdps

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

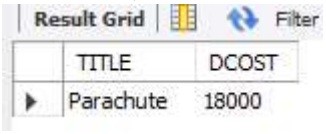
```
SELECT COURSE FROM STUDIES WHERE CCOST < (SELECT AVG(CCOST)+1000 FROM
STUDIES) AND CCOST > (SELECT AVG(CCOST)-1000 FROM STUDIES);
```

Result Grid

COURSE
dca
pdgca
dcs

17) Which package has the HIGEST development cost?

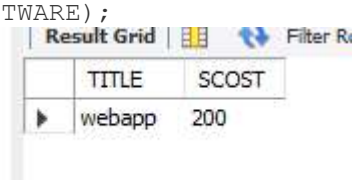
```
SELECT TITLE,DCOST FROM SOFTWARE WHERE DCOST = (SELECT MAX(DCOST) FROM
SOFTWARE);
```



TITLE	DCOST
Parachute	18000

18) Which package has the LOWEST selling cost?

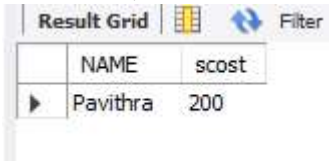
```
SELECT TITLE,SCOST FROM SOFTWARE WHERE SCOST = (SELECT MIN(SCOST) FROM
SOFTWARE);
```



TITLE	SCOST
webapp	200

19) Who developed the package, which has sold the LEAST number of copies?

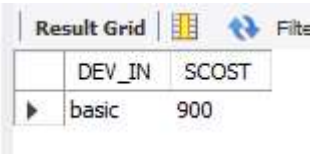
```
SELECT NAME,SOLD FROM SOFTWARE WHERE SOLD = (SELECT MIN(SOLD) FROM
SOFTWARE);
```



NAME	scost
Pavithra	200

20) Which language was used to develop the package WHICH has the HIGEST sales amount?

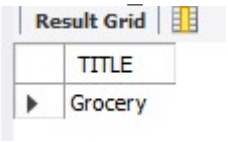
```
SELECT DEV_IN,SCOST FROM SOFTWARE WHERE SCOST = (SELECT MAX(SCOST) FROM
SOFTWARE);
```



DEV_IN	SCOST
basic	900

22) Which is the COSTLIEAST package developed in PASCAL?

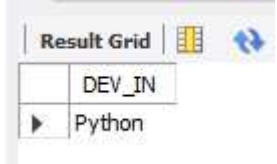
```
SELECT TITLE FROM SOFTWARE WHERE DCOST = (SELECT MAX(DCOST) FROM SOFTWARE
WHERE DEV_IN LIKE 'PASCAL');
```



TITLE
Grocery

23) 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
Python

24) Which programmer has developed the HIGEST NUMBER of package?

```
SELECT NAME FROM SOFTWARE GROUP BY NAME HAVING MAX(NAME) = (SELECT
MAX(NAME) FROM SOFTWARE);
```

Result Grid

NAME
Priya

25) Who is the author of the COSTLIEST package?

```
SELECT NAME,DCOST FROM SOFTWARE WHERE DCOST = (SELECT MAX(DCOST)
FROM   SOFTWARE);
```

Result Grid

NAME
Priya

26) 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
FlowerShop
EmployeeApp
Grocery
webapp

28) 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
Ruby

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

```
SELECT NAME FROM SOFTWARE WHERE SOLD*SCOST > 2*DCOST;
```

Result Grid

NAME
Pavithra

30) 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);
```

Result Grid | Filter Rows:

NAME	TITLE
Akash	medicare
Ilakia	EmployeeApp
Krishanth	PastryShop
Pavithra	webapp
Pawan	Management

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

```
SELECT NAME FROM PROGRAMMER WHERE DOB=(SELECT (MAX(DOB)) FROM PROGRAMMER
WHERE TO_CHAR(DOB,'YYYY') LIKE '1965');
```

32) 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
Akash	basic
Dharanitha	Python
Ilakia	Python
Krishanth	Java
oviya	Pascal
Pavithra	Java
Pawan	Pascal
Priya	basic

33) Who is the OLDEST female programmer WHO joined in 1992?

```
SELECT NAME FROM PROGRAMMER WHERE DOJ=(SELECT (MIN(DOJ)) FROM PROGRAMMER
WHERE TO_CHAR(DOJ,'YYYY') LIKE '1992');
```

34) In WHICH year where the MOST NUMBER of programmer born?

```
SELECT DISTINCT TO_CHAR(DOB,'YYYY') FROM PROGRAMMER WHERE
TO_CHAR(DOJ,'YYYY') = (SELECT MIN(TO_CHAR(DOJ,'YYYY')) FROM PROGRAMMER);
```

37) 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
Aarav
Gandhi
Hari
Pawan
Sai
Tejas