Pranav Jain
16BCE1112
DBMS- Assignment2

1.) Find out the selling average cost for Packages developed in PASCAL

```
SQL> select avg(scost) from software_16bce1112 where developing='PASCAL';

AVG(SCOST)
----------
   3066.65

SQL> SELECT PNAME, ROUND((sysdate-DOB)/365.25) FROM Programmer_16bce1112;

PNAME                                              ROUND((SYSDATE-DOB)/365.25)
-------------------------------------------------- ---------------------------
ANAND                                                                       51
ALTAF                                                                       53
JULIANA                                                                     57
KAMALA                                                                      48
MARY                                                                        47
NELSON                                                                      31
PATTRICK                                                                    51
QADIR                                                                       51
RAMESH                                                                      50
REBECCA                                                                     50
REMITHA                                                                     47

PNAME                                              ROUND((SYSDATE-DOB)/365.25)
-------------------------------------------------- ---------------------------
REVATHI                                                                     47
VIJAYA                                                                      51

13 rows selected.

SQL> select name from studies_16bce1112 where course='DAP' ;
```

2.) Display the names ages of all programmers

```
SQL> select pname from studies_16bce1112 where course='DAP' ;

PNAME
--------------------
NELSON
```

3.) Display the names of those who have done the DAP course.

```
SQL> select pname, dob from programmer_16bce1112 where dob like '%-JAN-%';

PNAME                                              DOB
-------------------------------------------------- ---------
JULIANA                                            31-JAN-60
REBECCA                                            01-JAN-67
```

4.) Display the names and date of births of all programmers born in January

```
SQL> select max(sold) from software_16bce1112;

 MAX(SOLD)
----------
        84
```

5.) What is the highest number of copies sold by a package

```
SQL> select max(sold) from software_16bce1112;

 MAX(SOLD)
----------
        84
```

6.) Display the lowest course fee

```
SQL> select min(coursefee) from studies_16bce1112;

MIN(COURSEFEE)
--------------
          4500
```

7.) How many programmers done the PGDCA course

```
SQL> select count(pname) from studies_16bce1112 where course='PGDCA';

COUNT(PNAME)
------------
           3
```

8.) How much revenue has been earned thru sales of packages developed in c.

```
SQL> select scost*sold from software_16bce1112 where developing='C';

SCOST*SOLD
----------
    103500
     39900
     36975
      5400
```

9.) Display the details of the software developed by Ramesh.

```
SQL> select * from software_16bce1112 where pname='RAMESH';

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                              SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
RAMESH
HOTLIMGMT
DBASE                                                   12000      35000
         4


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                              SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
RAMESH
DEADLEE
PASCAL                                                 599.95       4500
        73
```

10.) How may programmers studied at Sabhari

```
SQL> select count(pname) from studies_16bce1112 where institute='SABHARI';

COUNT(PNAME)
------------
           3
```

11.) Display details of packages whose sales crossed the 2000 mark

```
SQL> select * from software_16bce1112 where scost*sold>2000.00;

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
MARY
README
CPP                                                     100       1200
        84


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
ANAND
PARACHUTES
BASIC                                                 399.95       6000
        43


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
ANAND
VIDEOTITLING
PASCAL                                                 7500      16000
         9


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
KAMALA
PAYROLLPRG
DBASE                                                  9000      20000
         7
```

```
PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
MARY
FINANCIALACC
ORACLE                                                18000      85000
         4


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
MARY
CODEGENRRATOP
C                                                      4500      20000
        23


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
PATTRICK
README
CPP                                                     300       1200
        84


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
QADIR
BOMBSAWAY
ASSEMBLY                                                750       5000
        11


PNAME
```

```
PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                          SCOST      DCOST
--------------------------------------------------- ---------- ----------
      SOLD
----------
RAMESH
HOTLIMGMT
DBASE                                               12000      35000
         4

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                          SCOST      DCOST
--------------------------------------------------- ---------- ----------
      SOLD
----------
RAMESH
DEADLEE
PASCAL                                              599.95       4500
        73

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                          SCOST      DCOST
--------------------------------------------------- ---------- ----------
      SOLD
----------
REMITHA
PCUTILITIES
C                                                     725       5000
        51

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                          SCOST      DCOST
--------------------------------------------------- ---------- ----------
      SOLD
----------
REMITHA
TSRHELPPKG
ASSEMBLY                                             2500       6000
         7

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                          SCOST      DCOST
--------------------------------------------------- ---------- ----------
      SOLD
----------
VIJAYA
TSREDITOR
C                                                     900        700
         6

15 rows selected.
```

scroll down please!

13.) Display the details of packages for which developments cost have been recovered.

```
SQL> select * from software_16bce1112 where dcost>scost;

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                              SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
MARY
README
CPP                                                       100       1200
        84


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                              SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
ANAND
PARACHUTES
BASIC                                                   399.95       6000
        43


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                              SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
ANAND
VIDEOTITLING
PASCAL                                                   7500      16000
         9


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                              SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
JULIANA
INVENTORY
COBOL                                                    3000       3500
         0
```

```
PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
KAMALA
PAYROLLPRG
DBASE                                                  9000      20000
         7


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
MARY
FINANCIALACC
ORACLE                                                18000      85000
         4


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
MARY
CODEGENRRATOP
C                                                      4500      20000
        23


PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
----------
PATTRICK
README
CPP                                                     300       1200
        84


PNAME
```

```
PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                          SCOST      DCOST
--------------------------------------------------- ---------- ----------
      SOLD
----------
QADIR
BOMBSAWAY
ASSEMBLY                                              750       5000
        11

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                          SCOST      DCOST
--------------------------------------------------- ---------- ----------
      SOLD
----------
QADIR
VACCINES
C                                                    1900       3400
        21

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                          SCOST      DCOST
--------------------------------------------------- ---------- ----------
      SOLD
----------
RAMESH
HOTLIMGMT
DBASE                                               12000      35000
         4

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                          SCOST      DCOST
--------------------------------------------------- ---------- ----------
      SOLD
----------
RAMESH
DEADLEE
PASCAL                                             599.95       4500
        73
```

```
PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
---------
REMITHA
PCUTILITIES
C                                                       725       5000
        51

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
---------
REMITHA
TSRHELPPKG
ASSEMBLY                                               2500       6000
         7

PNAME
--------------------------------------------------
TITLE
--------------------------------------------------
DEVELOPING                                            SCOST      DCOST
-------------------------------------------------- ---------- ----------
      SOLD
---------
REVATHI
HOSPITALMGMT
PASCAL                                                 1100      75000
         2

15 rows selected.
```

14.) What is the cost of the costliest software developed in basic

```
SQL> select max(scost) from software_16bce1112;

MAX(SCOST)
----------
     18000
```

15.) How many packages developed in dbase

```
SQL> select sum(sold) from software_16bce1112 where developing='DBASE';

 SUM(SOLD)
----------
        11
```

16.) How many programmers studies in Pragathi

```
SQL> select count(pname) from studies_16bce1112 where institute='PRAGATHI';

COUNT(PNAME)
------------
           3
```

17.) How many programmers paid 5000 to 10000 for their studies.

```
SQL> select count(pname) from studies_16bce1112 where coursefee between 5000 and
 10000;

COUNT(PNAME)
------------
           5
```

18.) What is avg course fee

```
SQL> select avg(coursefee) from studies_16bce1112;

AVG(COURSEFEE)
--------------
    11508.3333
```

19.) Display the detail the programmers knowing c

```
SQL> select * from programmer_16bce1112 where prof1='C' or prof2='C';

PNAME                                              DOB       DOJ       SE
-------------------------------------------------- --------- --------- --
PROF1
--------------------------------------------------
PROF2                                                  SALARY
-------------------------------------------------- ----------
KAMALA                                             30-OCT-68 02-JAN-92 F
C
DBASE                                                    2900

QADIR                                              31-AUG-65 21-APR-90 M
ASSEMBLY
C                                                        3000

PNAME                                              DOB       DOJ       SE
-------------------------------------------------- --------- --------- --
PROF1
--------------------------------------------------
PROF2                                                  SALARY
-------------------------------------------------- ----------

REMITHA                                            19-APR-70 20-APR-93 F
C
ASSEMBLY                                                 3000

VIJAYA                                             14-DEC-65 02-MAY-92 F
FOXPRO

PNAME                                              DOB       DOJ       SE
-------------------------------------------------- --------- --------- --
PROF1
--------------------------------------------------
PROF2                                                  SALARY
-------------------------------------------------- ----------
C                                                        4500
```

21.) How many programmers don't know Pascal and c

```
SQL> SELECT COUNT(PNAME) FROM Programmer_16bce1112 WHERE PROF1 in ('COBOL','PASC
AL') OR PROF2 in ('COBOL','PASCAL');

COUNT(PNAME)
------------
           8
```

22.) How old is the oldest male programmers

```
SQL> SELECT COUNT(PNAME) FROM Programmer_16bce1112 WHERE PROF1 NOT in ('C','PASC
AL') AND PROF2 NOT in ('C','PASCAL');

COUNT(PNAME)
------------
           5
```

23.) Calculate the experience in years for each programmers and. Display along with the names in descending order.

```
SQL> select round((sysdate-dob)/365.25) from programmer_16bce1112 where dob=(sel
ect min(dob)from programmer_16bce1112);

ROUND((SYSDATE-DOB)/365.25)
---------------------------
                         57
```

```
SQL> SELECT ROUND((sysdate-DOJ)/365.25), PNAME FROM Programmer_16bce1112 ORDER B
Y PNAME DESC;

ROUND((SYSDATE-DOJ)/365.25) PNAME
--------------------------- --------------------------------------------------
                         25 VIJAYA
                         25 REVATHI
                         24 REMITHA
                         26 REBECCA
                         26 RAMESH
                         27 QADIR
                         27 PATTRICK
                         28 NELSON
                         26 MARY
                         25 KAMALA
                         27 JULIANA

ROUND((SYSDATE-DOJ)/365.25) PNAME
--------------------------- --------------------------------------------------
                         95 ANAND
                         26 ALTAF

13 rows selected.
```

24.) Who are the programmers who celebrate their birthdays during the current month.

```
SQL> select pname from programmer_16bce1112 where doj like '%-JAN-%';

PNAME
--------------------------------------------------
KAMALA
REVATHI
```

25.) How many female programmers are there

```
SQL> select pname from programmer_16bce1112 where sex='F';

PNAME
--------------------------------------------------
JULIANA
KAMALA
MARY
REBECCA
REMITHA
REVATHI
VIJAYA

7 rows selected.
```

26.) What are the languages by male programmers

```
SQL> select prof1, prof2 from programmer_16bce1112 WHERE SEX='M';

PROF1
--------------------------------------------------
PROF2
--------------------------------------------------
PASCAL
BASIC

CLIPPER
COBOL

COBOL
DBASE


PROF1
--------------------------------------------------
PROF2
--------------------------------------------------
PASCAL


ASSEMBLY
C

PASCAL
DBASE


6 rows selected.

SQL>
```

27.) What is the average salary

```
SQL> select avg(salary) from programmer_16bce1112;

AVG(SALARY)
-----------
 3161.53846
```

28.) How many people draw salary 2000 to 4000

```
SQL> select count(pname) from programmer_16bce1112 where salary>=2000 and salary
<=4000;

COUNT(PNAME)
------------
          11
```

29.) Display the details of those who don’t know clipper Cobol or Pascal

```
SQL> SELECT *FROM Programmer_16bce1112 WHERE PROF1 NOT in ('CLIPPER','COBOL','PA
SCAL') AND PROF2 NOT in ('CLIPPER','COBOL','PASCAL');

PNAME                                              DOB       DOJ       SE
-------------------------------------------------- --------- --------- --
PROF1
--------------------------------------------------
PROF2                                                  SALARY
-------------------------------------------------- ----------
KAMALA                                             30-OCT-68 02-JAN-92 F
C
DBASE                                                    2900

MARY                                               24-JUN-70 01-FEB-91 F
CPP
ORACLE                                                   4500

PNAME                                              DOB       DOJ       SE
-------------------------------------------------- --------- --------- --
PROF1
--------------------------------------------------
PROF2                                                  SALARY
-------------------------------------------------- ----------

QADIR                                              31-AUG-65 21-APR-90 M
ASSEMBLY
C                                                        3000

REMITHA                                            19-APR-70 20-APR-93 F
C

PNAME                                              DOB       DOJ       SE
-------------------------------------------------- --------- --------- --
PROF1
--------------------------------------------------

PNAME                                              DOB       DOJ       SE
-------------------------------------------------- --------- --------- --
PROF1
--------------------------------------------------
PROF2                                                  SALARY
-------------------------------------------------- ----------
ASSEMBLY                                                 3000

VIJAYA                                             14-DEC-65 02-MAY-92 F
FOXPRO
C                                                        4500
```

30.) Display the cost of package developed by each programmer

```
SQL> select distinct(pname), dcost from software_16bce1112;

PNAME                                                   DCOST
-------------------------------------------------- ----------
MARY                                                    20000
QADIR                                                    3400
ANAND                                                    6000
VIJAYA                                                    700
MARY                                                     1200
KAMALA                                                  20000
REMITHA                                                  5000
RAMESH                                                   4500
REVATHI                                                 75000
RAMESH                                                  35000
PATTRICK                                                 1200

PNAME                                                   DCOST
-------------------------------------------------- ----------
ANAND                                                   16000
JULIANA                                                  3500
MARY                                                    85000
QADIR                                                    5000
REMITHA                                                  6000

16 rows selected.
```

31.) Display the sales values of the packages developed by the each programmer

```
SQL> select pname, scost*sold from software_16bce1112;

PNAME                                              SCOST*SOLD
-------------------------------------------------- ----------
MARY                                                     8400
ANAND                                                 17197.85
ANAND                                                    67500
JULIANA                                                      0
KAMALA                                                   63000
MARY                                                     72000
MARY                                                    103500
PATTRICK                                                 25200
QADIR                                                     8250
QADIR                                                    39900
RAMESH                                                   48000

PNAME                                              SCOST*SOLD
-------------------------------------------------- ----------
RAMESH                                                43796.35
REMITHA                                                  36975
REMITHA                                                  17500
REVATHI                                                   2200
VIJAYA                                                    5400

16 rows selected.
```

32.) Display the number of packages sold by each programmer.

```
SQL> select distinct(pname),sold from software_16bce1112;

PNAME                                                    SOLD
-------------------------------------------------- ----------
MARY                                                       23
QADIR                                                      11
RAMESH                                                      4
REMITHA                                                     7
MARY                                                        4
RAMESH                                                     73
REVATHI                                                     2
JULIANA                                                     0
MARY                                                       84
ANAND                                                      43
ANAND                                                       9

PNAME                                                    SOLD
-------------------------------------------------- ----------
KAMALA                                                      7
VIJAYA                                                      6
PATTRICK                                                   84
QADIR                                                      21
REMITHA                                                    51

16 rows selected.
```

33.) Display the sales cost of the packages developed by each programmer

```
SQL> select pname,scost from software_16bce1112;

PNAME                                                   SCOST
--------------------------------------------------- ----------
MARY                                                       100
ANAND                                                   399.95
ANAND                                                     7500
JULIANA                                                   3000
KAMALA                                                    9000
MARY                                                     18000
MARY                                                      4500
PATTRICK                                                   300
QADIR                                                      750
QADIR                                                     1900
RAMESH                                                   12000

PNAME                                                   SCOST
--------------------------------------------------- ----------
RAMESH                                                  599.95
REMITHA                                                    725
REMITHA                                                   2500
REVATHI                                                   1100
VIJAYA                                                     900

16 rows selected.
```

Scroll down please---

34.) Display the sales cost of the packages developed by each programmer language wise

```
SELECT COUNT(*), SUM(SCOST), PNAME, DEVELOPING FROM Software_16bce1112 GROUP BY PNAME,DEVELOPING;
```

COUNT(*)	SUM(SCOST)	PNAME	DEVELOPING
1	9000	KAMALA	DBASE
1	4500	MARY	C
1	1100	REVATHI	PASCAL
1	3000	JULIANA	COBOL
1	1900	QADIR	C
1	100	MARY	CPP
1	900	VIJAYA	C
1	399.95	ANAND	BASIC
1	7500	ANAND	PASCAL
1	750	QADIR	ASSEMBLY
1	12000	RAMESH	DBASE
1	599.95	RAMESH	PASCAL
1	18000	MARY	ORACLE
1	300	PATTRICK	CPP
1	725	REMITHA	C
1	2500	REMITHA	ASSEMBLY

35.) Display each language name with Average development cost, average selling cost and average price per copy.

```
SELECT AVG(DCOST), AVG(SCOST), DEVELOPING FROM Software_16bce1112 GROUP BY DEVELOPING;
```

Unsupported Command

Unsupported Command

AVG(DCOST)	AVG(SCOST)	DEVELOPING
27500	10500	DBASE
3500	3000	COBOL
5500	1625	ASSEMBLY
7275	2006.25	C
85000	18000	ORACLE

Scroll down please---

36.) Display each programmers name costliest and cheapest packages developed by him or her .

```
select pname,max(dcost),min(dcost) from software_16bce1112 group by pname;
```

PNAME	MAX(DCOST)	MIN(DCOST)
VIJAYA	700	700
REVATHI	75000	75000
ANAND	16000	6000
REMITHA	6000	5000
MARY	85000	1200
KAMALA	20000	20000
PATTRICK	1200	1200
QADIR	5000	3400
RAMESH	35000	4500
JULIANA	3500	3500

37.) Display each institute name with number of courses average cost per course.

```
select institute,count(course),avg(coursefee) from studies_16bce1112 group by institute;
```

Unsupported Command

Unsupported Command

Unsupported Command

Unsupported Command

INSTITUTE	COUNT(COURSE)	AVG(COURSEFEE)
COIT	1	7200
PRAGATHI	3	5466.6666666666666666666666666666666667
SABHARI	3	4500
APPLE	1	14000
BITS	1	22000
BRILLIANT	1	11000
BDPS	2	27000

38.) Display each institute name with number of students.

```
2  select institute, count(pname) from studies_16bce1112 group by institute;
```

Unsupported Command

Unsupported Command

Unsupported Command

Unsupported Command

INSTITUTE	COUNT(PNAME)
COIT	1
PRAGATHI	3
SABHARI	3
APPLE	1
BITS	1
BRILLIANT	1
BDPS	2

7 rows selected.

39.) Display names of male and female programmers name and sex also

```
2  select pname, sex from programmer_16bce1112;
```

Unsupported Command

PNAME	SEX
ANAND	M
ALTAF	M
JULIANA	F
KAMALA	F
MARY	F
NELSON	M
PATTRICK	M
QADIR	M
RAMESH	M
REBECCA	F
REMITHA	F
REVATHI	F
VIJAYA	F

13 rows selected.

40.) Display the name of programmers and their packages

```
2  select pname, salary from programmer_16bce1112;
```

Unsupported Command

PNAME	SALARY
ANAND	3200
ALTAF	2800
JULIANA	3000
KAMALA	2900
MARY	4500
NELSON	2500
PATTRICK	2800
QADIR	3000
RAMESH	3200
REBECCA	2500
REMITHA	3000
REVATHI	3200
VIJAYA	4500

13 rows selected.

41.) Display the number of packages in each languages except c and c++.

```
SELECT COUNT(DEVELOPING) FROM Software_16bce1112 WHERE DEVELOPING NOT IN ('C','CPP') GROUP BY DEVELOPING;
```

COUNT(DEVELOPING)
2
1
2
1
1
3

42.) Display the number of packages in each language for which development cost is less than 1000.

```
select count(title) from software_16bce1112 where dcost<1000 order by developing;
```

Unsupported Command

Unsupported Command

COUNT(TITLE)
1

43.) Display the average difference between SCOST and DCOST for each package.

```
select avg(dcost-scost) from software_16bce1112;
```

AVG(DCOST-SCOST)
14014.06875

44.) Display the total SCOST, DCOST and amount to be recovered for each programmer for those whose DCOST has not yet been recovered.

```
SELECT PNAME,SUM(SCOST),SUM(DCOST),SUM(SOLD) FROM Software_16bce1112 WHERE SCOST*SOLD<DCOST GROUP BY PNAME;
```

PNAME	SUM(SCOST)	SUM(DCOST)	SUM(SOLD)
REVATHI	1100	75000	2
MARY	18000	85000	4
JULIANA	3000	3500	0

3 rows selected.

45.) Display the highest, lowest and average salaries for those earning more than 2000.

```
select max(salary),min(salary),avg(salary) from programmer_16bce1112 where salary>2000;
```

Unsupported Command

Unsupported Command

MAX(SALARY)	MIN(SALARY)	AVG(SALARY)
4500	2500	3161.5384615384615384615384615384615384462

46.) Who is the highest paid in ’C’ programmers.

```
select pname from programmer_16bce1112 where salary=(select max(salary) from programmer_16bce1112);
```

Unsupported Command

PNAME
MARY
VIJAYA

2 rows selected.

47.) Who is the highest paid female Cobol programmer

```
SELECT PNAME FROM Programmer_16bce1112 WHERE SEX='F' AND PROF1='COBOL' OR PROF2='COBOL' AND SALARY=(SELECT MAX(SALARY) FROM Pro
```

Unsupported Command

Unsupported Command

PNAME
JULIANA

49.) Who is the least experienced programmer

```
select pname from programmer_16bce1112 where doj=(select min(doj) from programmer_16bce1112);
```

Unsupported Command

Unsupported Command

PNAME
ANAND

50.) Who is the most experienced male programmer knowing Pascal

```
SELECT PNAME FROM Programmer_16bce1112 WHERE SEX='M' AND PROF1='PASCAL' AND DOJ=(SELECT MIN(DOJ) FROM Programmer_16bce1112);
```

Unsupported Command

Unsupported Command

PNAME
ANAND

53.) Who is the youngest programmer knowing DBASE

```
SELECT PNAME FROM Programmer_16bce1112 WHERE PROF1='DBASE' OR PROF2='DBASE' AND DOB=(SELECT MIN(DOB) FROM Programmer_16bce1112)
```

Unsupported Command

Unsupported Command

PNAME
JULIANA

54.) Which female programmer earning more than 3000 does not know c. C++ oracle or DBASE.

```
Programmer_16bce1112 WHERE PROF1 NOT IN ('C','C++','ORACLE') AND PROF2 NOT IN ('C','C++','ORACLE') AND SALARY<3000 AND SEX='F'
```

Unsupported Command

Unsupported Command

PNAME
REBECCA

55.) Which institute has most number of students

```
SELECT MAX (INSTITUTE) FROM (SELECT INSTITUTE,COUNT(INSTITUTE) FROM Studies_16bce1112 GROUP BY INSTITUTE);
```

Unsupported Command

Unsupported Command

MAX(INSTITUTE)
SABHARI

56.) What is the costliest course

```
select course from studies_16bce1112 where coursefee=(select max(coursefee) from studies_16bce1112);
```

Unsupported Command

Unsupported Command

COURSE
DCA

57.) Which course has been done by the most of the students

```
select course from studies_16bce1112 where coursefee=(select max(coursefee) from studies_16bce1112);
```

Unsupported Command

Unsupported Command

COURSE
DCA

58.) Which course has been done by the most of the student

```
SELECT MAX(COURSE) FROM (SELECT COURSE,COUNT(COURSE) FROM Studies_16bce1112 GROUP BY COURSE);
```

Unsupported Command

Unsupported Command

MAX(COURSE)
PGDCA

59.) Which institute conducts costliest course

```
SELECT MAX(COURSE) FROM (SELECT COURSE,COUNT(COURSE) FROM Studies_16bce1112 GROUP BY COURSE);
```

Unsupported Command

Unsupported Command

MAX(COURSE)
PGDCA

60.) Display the name of the institute and course which has below average course fee

```
select institute from studies_16bce1112 where coursefee=(select max(coursefee) from studies_16bce1112);
```

Unsupported Command

Unsupported Command

INSTITUTE
BDPS

61.)Display the names of the courses whose fees are within 1000 (+or) of the average fee.

```
SELECT INSTITUTE,COURSE FROM Studies_16bce1112 WHERE COURSEFEE<(SELECT AVG(COURSEFEE) FROM Studies_16bce1112);
```

Unsupported Command

Unsupported Command

Unsupported Command

Unsupported Command

INSTITUTE	COURSE
SABHARI	PGDCA
COIT	DCA
PRAGATHI	DCP
SABHARI	PGDCA
PRAGATHI	DAP
PRAGATHI	DCAP
SABHARI	PGDCA
BRILLIANT	DCAP
BDPS	DCS

9 rows selected.

62.) Which package has the highest development cost

```
1 SELECT COURSE FROM Studies_16bce1112 WHERE COURSEFEE BETWEEN (SELECT AVG(COURSEFEE)-1000 FROM STUDIES_16BCE1112) AND (SELECT AV
```

Unsupported Command

Unsupported Command

COURSE
DCAP

63.) Which course has below average number of students

```
1 SELECT COURSE FROM Studies_16bce1112 WHERE COURSEFEE BETWEEN (SELECT AVG(COURSEFEE)-1000 FROM STUDIES_16BCE1112) AND (SELECT AV
```

Unsupported Command

Unsupported Command

COURSE
DCAP

64.) Which package has the lowest selling cost

```
select title from software_16bce1112 where dcost=(select max(dcost) from software_16bce1112);
```

Unsupported Command

Unsupported Command

TITLE
FINANCIALACC

65.) Who developed the package that has sold the least number of copies

```
select course from studies_16bce1112 group by course having count(course)<(select avg(count(course)) from studies_16bce1112 gro
```

COURSE
DAP
HDCP
DCP
MCA
DCS

5 rows selected.

66.) Which language has used to develop the package which has the highest sales amount

```
select title from software_16bce1112 where scost=(select min(scost) from software_16bce1112);
```

Resize Code Editor

Unsupported Command

Unsupported Command

TITLE
README

Scroll down please---

67.) How many copies of package that has the least difference between development and selling cost were sold

```
SELECT TITLE FROM SOFTWARE_16BCE1112 WHERE SOLD=(SELECT MIN(SOLD) FROM SOFTWARE_16BCE1112);
```

Unsupported Command

Unsupported Command

TITLE
INVENTORY

68.) Which is the costliest package developed in Pascal

```
select developing from software_16bce1112 where scost*sold=(select max(scost*sold) from software_16bce1112);
```

Unsupported Command

Unsupported Command

DEVELOPING
C

70.) Which programmer has developed the highest number of packages

```
select(count(sold)) from software_16bce1112 where dcost-scost=(select min(dcost-scost) from software_16bce1112);
```

Unsupported Command

Unsupported Command

(COUNT(SOLD))
1

71.) Display the names of the package which have sold less than the average number of copies

```
select pname from software_16bce1112 group by pname having count(pname)=(select max(count(pname)) from software_16bce1112 group
```

Unsupported Command

Unsupported Command

PNAME
MARY

72.) Who are the authors of the packages which have recovered more than double the development cost

```
select title from software_16bce1112 where sold<(select avg(sold) from software_16bce1112);
```

Unsupported Command

Unsupported Command

Unsupported Command

TITLE
VIDEOTITLING
INVENTORY
PAYROLLPRG
FINANCIALACC
CODEGENRRATOP
BOMBSAWAY
VACCINES
HOTLIMGMT
TSRHELPPKG
HOSPITALMGMT
TSREDITOR

11 rows selected.

Please Scroll Down----

73.) Display the programmer names and the cheapest packages developed by them in each Language

```
Unsupported Command
2  select pname from software_16bce1112 where scost*sold>2*dcost;
```

Unsupported Command

Unsupported Command

PNAME
MARY
ANAND
ANAND
KAMALA
MARY
PATTRICK
QADIR
RAMESH
REMITHA
REMITHA
VIJAYA

11 rows selected.

74.) Display the language used by each programmer to develop the highest selling and lowest selling package

```
select title from software_16bce1112 where sold<(select avg(sold) from software_16bce1112);
```

Unsupported Command

Unsupported Command

TITLE
VIDEOTITLING
INVENTORY
PAYROLLPRG
FINANCIALACC
CODEGENRRATOP
BOMBSAWAY
VACCINES
HOTLIMGMT
TSRHELPPKG
HOSPITALMGMT
TSREDITOR

11 rows selected.

77.) In which year were the most number of programmers born.

```
select pname from software_16bce1112 where scost*sold>dcost;
```

Unsupported Command

PNAME
MARY
ANAND
ANAND
KAMALA
MARY
PATTRICK
QADIR
QADIR
RAMESH
RAMESH
REMITHA
REMITHA
VIJAYA

13 rows selected.

78.) In which month did most number of programmers join

```
2  select pname,title from software_16bce1112 where dcost in (select min(dcost) from software_16bce1112 group by developing);
Unsupported Command

Unsupported Command
```

PNAME	TITLE
MARY	README
ANAND	PARACHUTES
JULIANA	INVENTORY
KAMALA	PAYROLLPRG
MARY	FINANCIALACC
MARY	CODEGENRRATOP
PATTRICK	README
QADIR	BOMBSAWAY
RAMESH	DEADLEE
REMITHA	PCUTILITIES
REMITHA	TSRHELPPKG
VIJAYA	TSREDITOR

12 rows selected.

79.) In which language are most of the programmers proficient

```
2  select pname,title,developing from software_16bce1112 where sold in (select max(sold) from software_16bce1112 group by pname) union select pname,title,d
```

PNAME	TITLE	DEVELOPING
ANAND	PARACHUTES	BASIC
ANAND	VIDEOTITLING	PASCAL
JULIANA	INVENTORY	COBOL
KAMALA	PAYROLLPRG	DBASE
MARY	FINANCIALACC	ORACLE
MARY	README	CPP
PATTRICK	README	CPP
QADIR	BOMBSAWAY	ASSEMBLY
QADIR	VACCINES	C
RAMESH	DEADLEE	PASCAL
RAMESH	HOTLIMGMT	DBASE
REMITHA	PCUTILITIES	C
REMITHA	TSRHELPPKG	ASSEMBLY
REVATHI	HOSPITALMGMT	PASCAL
VIJAYA	TSREDITOR	C

15 rows selected.

Scroll down please---

80.) Who are the male programmers earning below the average salary of female programmers.

```
select distinct(to_char(dob,'yyyy')) as year from programmer_16bce1112 where to_char(dob,'yyyy')=(select min(to_char(dob,'yyyy')) from programmer_16bce1
```

```
Unsupported Command

Unsupported Command
```

YEAR
1960

81.) Who are the female programmers earning more than the highest paid maleprogrammer

```
SQL> Select pname from PROGRAMMER_16bce1112 where sex='F' and salary>(select max(salary) from PROGRAMMER_16bce1112 where sex='M');

PNAME
----------
MARY
VIJAYA
MARY
VIJAYA

SQL>
```

82.) Which language has been stated as the PROF by most of the programmers

```
SQL> select prof1 as prof from PROGRAMMER_16bce1112 group by prof1 having count(prof1)=(select max(count(prof1)) from PROGRAMMER_16bce1112 group by prof1) or count(pr
of2)=(select max(count(prof2)) from PROGRAMMER_16bce1112 group by prof2) union select prof2 as prof from PROGRAMMER_16bce1112 group by prof2 having count(prof1)=(sele
ct max(count(prof1)) from PROGRAMMER_16bce1112 group by prof1) or count(prof2)=(select max(count(prof2)) from PROGRAMMER_16bce1112 group by prof2);

PROF
----------
DBASE
PASCAL
```

83.) Display the details of those who are drawing the same salary.

```
SQL> select * from PROGRAMMER_16bce1112 where salary=any(select salary from PROGRAMMER_16bce1112 p group by salary having salary=p.salary and count(*)>1) order b
ary;

PNAME      DOB       DOJ       S PROF1      PROF2          SALARY
---------- --------- --------- - ---------- ---------- ----------
REBECCA    01-JAN-67 01-DEC-90 F BASIC      COBOL            2500
NELSON     11-SEP-85 11-MAR-89 M COBOL      DBASE            2500
REBECCA    01-JAN-67 01-DEC-90 F BASIC      COBOL            2500
NELSON     11-SEP-85 11-MAR-89 M COBOL      DBASE            2500
ALTAF      02-JUL-64 13-NOV-90 M CLIPPER    COBOL            2800
PATTRICK   10-NOV-65 21-APR-90 M PASCAL                       2800
ALTAF      02-JUL-64 13-NOV-90 M CLIPPER    COBOL            2800
PATTRICK   10-NOV-65 21-APR-90 M PASCAL                       2800
KAMALA     30-OCT-68 02-JAN-92 F C          DBASE            2900
KAMALA     30-OCT-68 02-JAN-92 F C          DBASE            2900
JULIANA    31-JAN-60 21-APR-90 F COBOL      DBASE            3000

PNAME      DOB       DOJ       S PROF1      PROF2          SALARY
---------- --------- --------- - ---------- ---------- ----------
QADIR      31-AUG-65 21-APR-90 M ASSEMBLY   C                3000
REMITHA    19-APR-70 20-APR-93 F C          ASSEMBLY         3000
JULIANA    31-JAN-60 21-APR-90 F COBOL      DBASE            3000
REMITHA    19-APR-70 20-APR-93 F C          ASSEMBLY         3000
QADIR      31-AUG-65 21-APR-90 M ASSEMBLY   C                3000
ANAND      12-APR-66 21-APR-92 M PASCAL     BASIC            3200
RAMESH     03-MAY-67 26-FEB-91 M PASCAL     DBASE            3200
REVATHI    02-DEC-69 02-JAN-92 F PASCAL     BASIC            3200
ANAND      12-APR-66 21-APR-92 M PASCAL     BASIC            3200
RAMESH     03-MAY-67 26-FEB-91 M PASCAL     DBASE            3200
REVATHI    02-DEC-69 02-JAN-92 F PASCAL     BASIC            3200

PNAME      DOB       DOJ       S PROF1      PROF2          SALARY
---------- --------- --------- - ---------- ---------- ----------
MARY       24-JUN-70 01-FEB-91 F CPP        ORACLE           4500
VIJAYA     14-DEC-65 02-MAY-92 F FOXPRO     C                4500
MARY       24-JUN-70 01-FEB-91 F CPP        ORACLE           4500
VIJAYA     14-DEC-65 02-MAY-92 F FOXPRO     C                4500

26 rows selected.
```

84.) Display the details of the software developed by the male programmers earning more than 3000/-

```
SQL> select * from SOFTWARE_16bce1112 where pname=any(select pname from PROGRAMMER_16bce1112 where salary>3000 and sex='M');

PNAME                          TITLE
------------------------------ ------------------------------
DEVELOPING                          SCOST      DCOST       SOLD
------------------------------ ---------- ---------- ----------
ANAND                          VIDEOTITLING
PASCAL                               7500      16000          9

ANAND                          PARACHUTES
BASIC                              399.95       6000         43

RAMESH                         DEADLEE
PASCAL                             599.95       4500         73


PNAME                          TITLE
------------------------------ ------------------------------
DEVELOPING                          SCOST      DCOST       SOLD
------------------------------ ---------- ---------- ----------
RAMESH                         HOTLIMGMT
DBASE                               12000      35000          4
```

85.) Display the details of the packages developed in Pascal by the female programmers

```
SQL> Select * from SOFTWARE_16bce1112 where developing='PASCAL' and pname=any(select pname from PROGRAMMER_16bce1112 where sex='F');

PNAME                          TITLE
------------------------------ ------------------------------
DEVELOPING                          SCOST      DCOST       SOLD
------------------------------ ---------- ---------- ----------
REVATHI                        HOSPITALMGMT
PASCAL                               1100      75000          2
```

86.) Display the details of the programmers who joined before 1990

```
SQL> select * from PROGRAMMER_16bce1112 where extract(year from DOB)<1990;

PNAME      DOB       DOJ       S PROF1      PROF2          SALARY
---------- --------- --------- - ---------- ---------- ----------
ANAND      12-APR-66 21-APR-92 M PASCAL     BASIC            3200
ALTAF      02-JUL-64 13-NOV-90 M CLIPPER    COBOL            2800
JULIANA    31-JAN-60 21-APR-90 F COBOL      DBASE            3000
KAMALA     30-OCT-68 02-JAN-92 F C          DBASE            2900
MARY       24-JUN-70 01-FEB-91 F CPP        ORACLE           4500
NELSON     11-SEP-85 11-MAR-89 M COBOL      DBASE            2500
PATTRICK   10-NOV-65 21-APR-90 M PASCAL                       2800
QADIR      31-AUG-65 21-APR-90 M ASSEMBLY   C                3000
RAMESH     03-MAY-67 26-FEB-91 M PASCAL     DBASE            3200
REBECCA    01-JAN-67 01-DEC-90 F BASIC      COBOL            2500
REMITHA    19-APR-70 20-APR-93 F C          ASSEMBLY         3000

PNAME      DOB       DOJ       S PROF1      PROF2          SALARY
---------- --------- --------- - ---------- ---------- ----------
REVATHI    02-DEC-69 02-JAN-92 F PASCAL     BASIC            3200
VIJAYA     14-DEC-65 02-MAY-92 F FOXPRO     C                4500
ANAND      12-APR-66 21-APR-92 M PASCAL     BASIC            3200
ALTAF      02-JUL-64 13-NOV-90 M CLIPPER    COBOL            2800
JULIANA    31-JAN-60 21-APR-90 F COBOL      DBASE            3000
KAMALA     30-OCT-68 02-JAN-92 F C          DBASE            2900
MARY       24-JUN-70 01-FEB-91 F CPP        ORACLE           4500
NELSON     11-SEP-85 11-MAR-89 M COBOL      DBASE            2500
PATTRICK   10-NOV-65 21-APR-90 M PASCAL                       2800
QADIR      31-AUG-65 21-APR-90 M ASSEMBLY   C                3000
RAMESH     03-MAY-67 26-FEB-91 M PASCAL     DBASE            3200

PNAME      DOB       DOJ       S PROF1      PROF2          SALARY
---------- --------- --------- - ---------- ---------- ----------
REBECCA    01-JAN-67 01-DEC-90 F BASIC      COBOL            2500
REMITHA    19-APR-70 20-APR-93 F C          ASSEMBLY         3000
REVATHI    02-DEC-69 02-JAN-92 F PASCAL     BASIC            3200
VIJAYA     14-DEC-65 02-MAY-92 F FOXPRO     C                4500

26 rows selected.
```

87.) Display the details of the software developed in c by female programmers of Pragathi

```
SQL> Select * from SOFTWARE_16bce1112 where developing='C' and pname=any(select pname from PROGRAMMER_16bce1112 where sex='F') and pname=any(select pname from S
_16bce1112 where institute='PRAGATHI');

no rows selected
```

88.) Display the number of packages, number of copies sold and sales value of each programmer institute wise.

```
SQL> Select * from SOFTWARE_16bce1112 where developing='C' and pname=any(select pname from PROGRAMMER_16bce1112 where sex='F') and pname=any(select pname from S
_16bce1112 where institute='PRAGATHI');

no rows selected

SQL> Select STUDIES_16bce1112.institute,count(SOFTWARE_16bce1112.title) as packages_no, count(SOFTWARE_16bce1112.sold) as no_of_copies,sum(SOFTWARE_16bce1112.sc
OFTWARE_16bce1112.sold) as no_of_copies_sold from SOFTWARE_16bce1112,STUDIES_16bce1112 where SOFTWARE_16bce1112.pname= STUDIES_16bce1112.pname group by STUDIES_
112.institute;

INSTITUTE                      PACKAGES_NO NO_OF_COPIES NO_OF_COPIES_SOLD
------------------------------ ----------- ------------ -----------------
PRAGATHI                                 1            1             63000
SABHARI                                  7            7          360394.2
APPLE                                    2            2             48150
BITS                                     1            1                 0
BDPS                                     3            3             59875
```

92.) Display the details of the software developed by the male students of Sabhari

```
SQL> Select pname from PROGRAMMER_16bce1112 where pname not in(select pname from SOFTWARE_16bce1112);

PNAME
----------
ALTAF
NELSON
REBECCA
ALTAF
NELSON
REBECCA

6 rows selected.
```

93.) Display the names of the programmers who have not developed any packages

```
SQL> Select pname from PROGRAMMER_16bce1112 where pname not in(select pname from SOFTWARE_16bce1112);

PNAME
----------
ALTAF
NELSON
REBECCA
ALTAF
NELSON
REBECCA

6 rows selected.
```

94.) What is the total cost of the software developed by the programmers of apple

```
SQL> Select sum(dcost) from SOFTWARE_16bce1112 where pname=(select pname from STUDIES_16bce1112 where institute='APPLE');

SUM(DCOST)
----------
      8400
```

95.) Display the names of the programmers who have not developed any packages’

```
SQL> Select pname from PROGRAMMER_16bce1112 where pname not in(select pname from SOFTWARE_16bce1112);

PNAME
----------
ALTAF
NELSON
REBECCA
ALTAF
NELSON
REBECCA

6 rows selected.
```

96.) Who are the programmers who have the same PROF2.

```
SQL> Select pname,prof2 from PROGRAMMER_16bce1112 where prof2=any(select prof2 from PROGRAMMER_16bce1112 p group by prof2 having prof2=p.prof2 and count(*)>1) or
y prof2;

PNAME      PROF2
---------- ----------
REMITHA    ASSEMBLY
REMITHA    ASSEMBLY
REVATHI    BASIC
REVATHI    BASIC
ANAND      BASIC
ANAND      BASIC
VIJAYA     C
QADIR      C
QADIR      C
VIJAYA     C
REBECCA    COBOL

PNAME      PROF2
---------- ----------
ALTAF      COBOL
REBECCA    COBOL
ALTAF      COBOL
RAMESH     DBASE
NELSON     DBASE
RAMESH     DBASE
JULIANA    DBASE
JULIANA    DBASE
KAMALA     DBASE
KAMALA     DBASE
NELSON     DBASE

PNAME      PROF2
---------- ----------
MARY       ORACLE
MARY       ORACLE

24 rows selected.
```

97.) Display the total sales value of the software institute wise.

```
SQL> Select STUDIES_16bce1112.institute,sum(SOFTWARE_16bce1112.sold*SOFTWARE_16bce1112.scost) as sales_val from SOFTWARE_16bce1112, STUDIES_16bce1112 where SOFT
6bce1112.pname= STUDIES_16bce1112.pname group by STUDIES_16bce1112.institute;

INSTITUTE                       SALES_VAL
------------------------------ ----------
PRAGATHI                            63000
SABHARI                           360394.2
APPLE                               48150
BITS                                    0
BDPS                                59875
```

98.) In which institute does the person who developed the costliest package studied.

```
SQL> Select institute from STUDIES_16bce1112 where pname=(select pname from SOFTWARE_16bce1112 where dcost=(select max(dcost) from SOFTWARE_16bce1112));

INSTITUTE
------------------------------
SABHARI
```

99.) Which language listed in PROF1 and PROF2 has not been used to develop any package

```
SQL> Select prof1 from PROGRAMMER_16bce1112 where prof1 not in(select developing from SOFTWARE_16bce1112) union select prof2 from PROGRAMMER_16bce1112 where prof
 in(select developing from SOFTWARE_16bce1112);

PROF1
----------
CLIPPER
FOXPRO
```

101.) How many months will it take for each programmer to recover the cost of the course under went

```
SQL> select p.pname,ceil(s.coursefee/p.salary) as months_required from PROGRAMMER_16bce1112 p,STUDIES_16bce1112 s where s.pname=p.pname;

PNAME      MONTHS_REQUIRED
---------- ---------------
ANAND                    2
ALTAF                    3
JULIANA                  8
KAMALA                   2
MARY                     1
NELSON                   3
QADIR                    5
RAMESH                   2
REMITHA                  2
VIJAYA                  11
ANAND                    2

PNAME      MONTHS_REQUIRED
---------- ---------------
ALTAF                    3
JULIANA                  8
KAMALA                   2
MARY                     1
NELSON                   3
QADIR                    5
RAMESH                   2
REMITHA                  2
VIJAYA                  11

20 rows selected.
```

102.) Which is the costliest package by a person with under 3 years experience

```
SQL> Select s.title,p.pname,s.scost from SOFTWARE_16bce1112 s,PROGRAMMER_16bce1112 p where((months_between(sysdate,p.doj))/12)<3 and p.pname=s.pname;

no rows selected
```

103.) What is the average salary for those whose software sales is more than 50,000/-

```
SQL> select pname,institute from STUDIES_16bce1112 where pname not in (select pname from SOFTWARE_16bce1112);

PNAME                          INSTITUTE
------------------------------ ------------------------------
ALTAF                          COIT
NELSON                         PRAGATHI
PATRICK                        PRAGATHI
RESECCA                        BRILLIANT
```

108.) List the programmers from the software table and the institutes they studied including those who did not develop and package

```
SQL> select pname,institute from STUDIES_16bce1112 where pname not in (select pname from SOFTWARE_16bce1112);

PNAME                          INSTITUTE
------------------------------ ------------------------------
ALTAF                          COIT
NELSON                         PRAGATHI
PATRICK                        PRAGATHI
RESECCA                        BRILLIANT
```