Assignment – 3

Creating table:

```
CREATE TABLE PROGRAMMER
   PNAME VARCHAR(20),
   DOB DATE,
   DOJ DATE,
   SEX VARCHAR(1),
   PROF1 VARCHAR(20),
   PROF2 VARCHAR(20),
   SALARY NUMBER(30),
   PRIMARY KEY(PNAME)
);
CREATE TABLE STUDIES
   PNAME VARCHAR(20),
    INSTITUTE VARCHAR(20),
   COURSE VARCHAR(20),
    COURSEFEE NUMBER(10),
   FOREIGN KEY(PNAME) REFERENCES PROGRAMMER(PNAME)
);
CREATE TABLE SOFTWARE
   PNAME VARCHAR(20),
   TITLE VARCHAR(20),
   DEVELOPING VARCHAR(30),
   SCOST FLOAT,
   DCOST FLOAT,
   SOLD NUMBER(3),
    FOREIGN KEY(PNAME) REFERENCES PROGRAMMER(PNAME)
```

Inserting Values

```
INSERT INTO PROGRAMMER VALUES
( 'ALTAF','02-JUL-64', '13-NOV-90','M', 'CLIPPER', 'COBOL',2800);
INSERT INTO PROGRAMMER VALUES
( 'ANAND','12-APR-66', '21-APR-92','M', 'PASCAL', 'BASIC',3200);
INSERT INTO PROGRAMMER VALUES
( 'JULIANA','31-JAN-60', '21-APR-90','F', 'COBOL', 'DBASE',3000);
```

```
INSERT INTO PROGRAMMER VALUES
( 'KAMALA', '30-OCT-68', '02-JAN-92', 'F', 'C', 'DBASE', 2900);
INSERT INTO PROGRAMMER VALUES
( 'MARY', '24-JUN-70', '01-FEB-91', 'F', 'CPP', 'ORACLE', 4500);
INSERT INTO PROGRAMMER VALUES
( 'NELSON', '11-SEP-85', '11-MAR-89', 'M', 'COBOL', 'DBASE', 2500);
INSERT INTO PROGRAMMER VALUES
( 'PATTRICK', '10-NOV-65', '21-APR-90', 'M', 'PASCAL', NULL, 2800);
INSERT INTO PROGRAMMER VALUES
('QADIR','31-AUG-65', '21-APR-90','M', 'ASSEMBLY', 'C',3000);
INSERT INTO PROGRAMMER VALUES
( 'RAMESH', '03-MAY-67', '26-FEB-91', 'M', 'PASCAL', 'DBASE', 3200);
INSERT INTO PROGRAMMER VALUES
( 'REBECCA', '01-JAN-67', '01-DEC-90', 'F', 'BASIC', 'COBOL', 2500);
INSERT INTO PROGRAMMER VALUES
( 'REMITHA', '19-APR-70', '20-APR-93', 'F', 'C', 'ASSEMBLY', 3000);
INSERT INTO PROGRAMMER VALUES
( 'REVATHI', '02-DEC-69', '02-JAN-92', 'F', 'PASCAL', 'BASIC', 3200);
INSERT INTO PROGRAMMER VALUES
( 'VIJAYA', '14-DEC-65', '02-MAY-92', 'F', 'FOXPRO', 'C', 4500);
INSERT INTO STUDIES VALUES
( 'ANAND', 'SABHARI', 'PGDCA',4500);
INSERT INTO STUDIES VALUES
( 'ALTAF', 'COIT', 'DCA',7200);
INSERT INTO STUDIES VALUES
( 'JULIANA', 'BITS', 'MCA',22000);
INSERT INTO STUDIES VALUES
( 'KAMALA', 'PRAGATHI', 'DCP',5000);
INSERT INTO STUDIES VALUES
( 'MARY', 'SABHARI', 'PGDCA',4500);
INSERT INTO STUDIES VALUES
( 'NELSON', 'PRAGATHI', 'DAP',6200);
INSERT INTO STUDIES VALUES
( 'PATTRICK', 'PRAGATHI', 'DCAP',5200);
INSERT INTO STUDIES VALUES
( 'QADIR', 'APPLE', 'HDCP',14000);
INSERT INTO STUDIES VALUES
( 'RAMESH', 'SABHARI', 'PGDCA',4500);
INSERT INTO STUDIES VALUES
( 'REMITHA', 'BDPS', 'DCS',6000);
INSERT INTO STUDIES VALUES
( 'VIJAYA', 'BDPS', 'DCA',48000);
INSERT INTO SOFTWARE VALUES
```

```
( 'MARY', 'README', 'CPP',100.00,1200,84);
INSERT INTO SOFTWARE VALUES
( 'ANAND', 'PARACHUTES', 'BASIC',399.95,6000,43);
INSERT INTO SOFTWARE VALUES
( 'ANAND', 'VIDEOTITLING', 'PASCAL',7500.00,16000,9);
INSERT INTO SOFTWARE VALUES
( 'JULIANA', 'INVENTORY', 'COBOL',3000.00,3500,0);
INSERT INTO SOFTWARE VALUES
( 'KAMALA', 'PAYROLLPRG', 'DBASE',9000.00,20000,7);
INSERT INTO SOFTWARE VALUES
( 'MARY', 'FINANCIALACC', 'ORACLE',18000.00,85000,4);
INSERT INTO SOFTWARE VALUES
( 'MARY', 'CODEGENRRATOP', 'C',4500.00,20000,23);
INSERT INTO SOFTWARE VALUES
( 'PATTRICK', 'README', 'CPP',300.00,1200,84);
INSERT INTO SOFTWARE VALUES
('QADIR', 'BOMBSAWAY', 'ASSEMBLY',750.00,5000,11);
INSERT INTO SOFTWARE VALUES
( 'QADIR', 'VACCINES', 'C',1900.00,3400,21);
INSERT INTO SOFTWARE VALUES
( 'RAMESH', 'HOTLIMGMT', 'DBASE',12000.00,35000,4);
INSERT INTO SOFTWARE VALUES
( 'RAMESH', 'DEADLEE', 'PASCAL',599.95,4500,73);
INSERT INTO SOFTWARE VALUES
( 'REMITHA', 'PCUTILITIES', 'C',725.00,5000,51);
INSERT INTO SOFTWARE VALUES
( 'REMITHA', 'TSRHELPPKG', 'ASSEMBLY',2500.00,6000,7);
INSERT INTO SOFTWARE VALUES
( 'REVATHI', 'HOSPITALMGMT', 'PASCAL',1100.00,75000,2);
INSERT INTO SOFTWARE VALUES
( 'VIJAYA', 'TSREDITOR', 'C',900.00,700,6);
```

Queries:

1 Find out the selling cost of Packages developed in Pascal.

```
select title, developing, scost from software
where developing='PASCAL';
```

∜ TITLE		SCOST
1 VIDEOTITLING	PASCAL	7500
2 DEADLEE	PASCAL	599.95
3 HOSPITALMGMT	PASCAL	1100

Display the names ages of all programmers select pname name, FLOOR((SYSDATE-DOB)/365) age from programmer; NAME 56 1 ALTAF 54 2 ANAND 3 JULIANA 61 4 KAMALA 52 5 MARY 6 NELSON 35 7 PATTRICK 55 8 QADIR 55 9 RAMESH 53 10 REBECCA 54 11 REMITHA 50 12 REVATHI 13 VIJAYA 55

Display the names of those who have done the dap course.

select pname from studies where course='DAP';

PNAME

1 NELSON

Display the names and date of births of all programmers born in january

select pname, DOB from programmer where TO_CHAR(DOB,'MON')

like 'JAN';

PNAME DOB

1 JULIANA 31-01-60

2 REBECCA 01-01-67

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

select max(sold) from software;

MAX(SOLD)

1 84

How many programmers done the pgdca course?

select count(*) from studies where course='PGDCA';

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

select sum(sold*scost) from software where developing='C'; \$ SUM(SOLD*SCOST) 1 185775

Display the details of the software developed by Ramesh

select * from software where pname='RAMESH'; 1 RAMESH HOTLIMGMT DBASE 12000 35000 599.95 4500 73 2 RAMESH DEADLEE PASCAL

How may programmers studied at Sabhari?

select count(*) from studies where institute='SABHARI';

11 Display details of packages whose sales crossed the 2000 mark

II Biopiay	ay detaile of packages whose sales of second the 2000 mark								
SELECT * FR	MC	software	WHERE (sold*s	cost)>2000) ;				
		PNAME	∜ TITLE		∯ SCOST		∯ SOLD		
	1	MARY	README	CPP	100	1200	84		
	2	ANAND	PARACHUTES	BASIC	399.95	6000	43		
	3	ANAND	VIDEOTITLING	PASCAL	7500	16000	9		
	4	KAMALA	PAYROLLPRG	DBASE	9000	20000	7		
	5	MARY	FINANCIALACC	ORACLE	18000	85000	4		
	6	MARY	CODEGENRRATOP	C	4500	20000	23		
	7	PATTRICK	README	CPP	300	1200	84		
	8	QADIR	BOMBSAWAY	ASSEMBLY	750	5000	11		
	9	QADIR	VACCINES	C	1900	3400	21		
	10	RAMESH	HOTLIMGMT	DBASE	12000	35000	4		
	11	RAMESH	DEADLEE	PASCAL	599.95	4500	73		
	12	REMITHA	PCUTILITIES	C	725	5000	51		
	13	REMITHA	TSRHELPPKG	ASSEMBLY	2500	6000	7		
	14	REVATHI	HOSPITALMGMT	PASCAL	1100	75000	2		
	15	VIJAYA	TSREDITOR	C	900	700	6		

12 Find out the number of c	opies which shou	ld be sold in c	order to
SELECT TITLE, CEIL(DCOST/S	SCOST) NO_OF_CO	PIES FROM SO	FTWARE;
	∜ TITLE	NO_OF_COPIES	
1	README	12	
2	PARACHUTES	16	
3	VIDEOTITLING	3	
4	INVENTORY	2	
5	PAYROLLPRG	3	
6	FINANCIALACC	5	
7	CODEGENRRATOP	5	
8	README	4	
9	BOMBSAWAY	7	
10	VACCINES	2	
11	HOTLIMGMT	3	
12	DEADLEE	8	
13	PCUTILITIES	7	
14	TSRHELPPKG	3	
15	HOSPITALMGMT	69	
16	TSREDITOR	1	

Display the details of packages for which developments cost have been recovered.							
SELECT * FROM	SOFTWARE	WHERE (sold*so	cost)>=dco	st;			
	₱ PNAME	∜ TITLE		∯ SCOST		∯ SOLD	
1	MARY	README	CPP	100	1200	84	
2	ANAND	PARACHUTES	BASIC	399.95	6000	43	
3	ANAND	VIDEOTITLING	PASCAL	7500	16000	9	
4	KAMALA	PAYROLLPRG	DBASE	9000	20000	7	
5	MARY	CODEGENRRATOP	C	4500	20000	23	
6	PATTRICK	README	CPP	300	1200	84	
7	QADIR	BOMBSAWAY	ASSEMBLY	750	5000	11	
8	QADIR	VACCINES	C	1900	3400	21	
9	RAMESH	HOTLIMGMT	DBASE	12000	35000	4	
10	RAMESH	DEADLEE	PASCAL	599.95	4500	73	
11	REMITHA	PCUTILITIES	C	725	5000	51	
12	REMITHA	TSRHELPPKG	ASSEMBLY	2500	6000	7	
13	VIJAYA	TSREDITOR	C	900	700	6	

14 What is t	e cost of the costliest software developed in basic?	
SELECT MAX(SO	OST) FROM SOFTWARE WHERE developing='BASIC';	
	∯ MAX(SCOST)	
	1 399.95	

How many packages developed in dbase ?

SELECT COUNT(*) FROM SOFTWARE WHERE developing='DBASE';

1 COUNT(*)

How many programmers studies in Pragathi?

select count(*) from studies where institute='PRAGATHI';

| COUNT(*) | 3

How many programmers paid 5000 to 10000 for their studies?

select count(*) from studies where coursefee BETWEEN 5000 AND 10000;

COUNT(*)

1
5

What is avg course fee?

SELECT CAST(AVG(COURSEFEE) AS DECIMAL(10,2)) Average FROM studies;

AVERAGE

1 11554.55

Display the detail the programmers knowing c

SELECT * FROM PROGRAMMER WHERE PROF1='C' OR PROF2='C';		PNAME	DOB	DOJ	SEX	PROF1	PROF2	SALARY
1 KAMALA	30-10-68	02-01-92	F	C	DBASE	2900		
2 QADIR	31-08-65	21-04-90	M	ASSEMBLY	C	3000		
3 REMITHA	19-04-70	20-04-93	F	C	ASSEMBLY	3000		
4 VIJAYA	14-12-65	02-05-92	F	FOXPRO	C	4500		

How many programmers know either Cobol or Pascal?

SELECT COUNT(*) FROM PROGRAMMER

WHERE PROF1='COBOL' OR PROF1='PASCAL' OR PROF2='COBOL' OR PROF2='PASCAL';

COUNT(*)

1
8

21 How many programmers don't know Pascal and C?

SELECT COUNT(*) FROM PROGRAMMER

WHERE PROF1 NOT IN ('PASCAL','C') AND PROF2 NOT IN ('PASCAL','C');

```
$ COUNT(*)
1 5
```

22 How old is the oldest male programmers?

```
SELECT FLOOR((SYSDATE-DOB)/365) AGE FROM PROGRAMMER
WHERE dob IN (SELECT MIN(DOB) FROM PROGRAMMER WHERE SEX='M');
```

Calculate the experience in years for each programmers and. display along with the names in descending order.

```
SELECT PNAME , FLOOR((SYSDATE-DOJ)/365) AS EXPERIENCE
FROM PROGRAMMER ORDER BY EXPERIENCE DESC;
                          ♦ PNAME
♦ EXPERIENCE
                         1 NELSON
                         2 JULIANA
                                         30
                         3 ALTAF
                                         30
                         4 PATTRICK
                                         30
                         5 REBECCA
                                         30
                         6 RAMESH
                                         30
                         7 QADIR
                                         30
                         8 MARY
                                         30
                         9 REVATHI
                                         29
                         10 KAMALA
                                         29
                         11 VIJAYA
                                         28
                                         28
                         12 ANAND
                         13 REMITHA
                                         27
```

Who are the programmers who celebrate their birthdays during the current month?

SELECT PNAME FROM PROGRAMMER

WHERE TO_CHAR(DOB, 'MM')=TO_CHAR(SYSDATE, 'MM');

PNAME

```
25 How many female programmers are there ?

SELECT COUNT(*) FROM PROGRAMMER WHERE SEX='F';

$\int \cdot \cdo
```

26 What are the languages by male programmers?

```
SELECT DISTINCT PROF1 AS LANGUAGE FROM PROGRAMMER
WHERE SEX='M' AND PROF1 IS NOT NULL
UNION
SELECT DISTINCT PROF2 AS LANGUAGE FROM PROGRAMMER
WHERE SEX='M' AND PROF2 IS NOT NULL;

LANGUAGE

1 ASSEMBLY
2 BASIC
3 C
4 CLIPPER
5 COBOL
6 DBASE
7 PASCAL
```

```
What is the average salary?

SELECT CAST(AVG(SALARY) AS DECIMAL(10,2)) AS AVERAGE_SALARY FROM PROGRAMMER;

AVERAGE_SALARY

1 3161.54
```

```
How many people draw salary 2000 to 4000?

SELECT COUNT(*) FROM PROGRAMMER WHERE salary BETWEEN 2000 AND 4000;

| Ount(*) | 1 | 11
```

```
Display the details of those who don't know clipper Cobol or Pascal.
SELECT * FROM PROGRAMMER
MINUS
SELECT * FROM PROGRAMMER WHERE PROF1 IN ('COBOL', 'PASCAL') OR PROF2 IN ('COB
OL', 'PASCAL');

    SALARY

         1 KAMALA 30-10-68 02-01-92 F
                                    C
                                             DBASE
                                                       2900
                 24-06-70 01-02-91 F
                                     CPP
                                             ORACLE
                                                       4500
         3 QADIR
                 31-08-65 21-04-90 M ASSEMBLY C
                                                       3000
         4 REMITHA 19-04-70 20-04-93 F C ASSEMBLY 3000
         5 VIJAYA 14-12-65 02-05-92 F FOXPRO C
                                                       4500
```

30 Display the cost of package developed by each programmer.

SELECT PNAME, SUM(DCOST) AS COST FROM SOFTWARE GROUP BY PNAME;

	₱NAME	COST
1	PATTRICK	1200
2	REMITHA	11000
3	JULIANA	3500
4	REVATHI	75000
5	KAMALA	20000
6	ANAND	22000
7	QADIR	8400
8	MARY	106200
9	RAMESH	39500
10	VIJAYA	700

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

| SELECT PNAME, SUM(SOLD*SCOST) SALES FROM SOFTWARE GROUP BY PNAME;
PNAME	SALES
PATTRICK	25200
REMITHA	54475
JULIANA	0
REVATHI	2200
KAMALA	63000
ANAND	84697.85
QADIR	48150
MARY	183900
RAMESH	91796.35
10 VIJAYA	5400

32 Display the number of pack	ages	sold by ea	ach pro	grammer
SELECT PNAME, count(*) NUM F	ROM	SOFTWARE	GROUP	BY PNAME;
		PNAME	∜ NUM	
	1	PATTRICK	1	
	2	REMITHA	2	
	3	JULIANA	1	
	4	REVATHI	1	
	5	KAMALA	1	
	6	ANAND	2	
	7	QADIR	2	
	8	MARY	3	
	9	RAMESH	2	
	10	VIJAYA	1	

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

SELECT PNAME, SUM(SCOST) FROM SOFTWARE GROUP BY PNAME;

		\$ SUM(SCOST)
1	PATTRICK	
2	REMITHA	3225
3	JULIANA	3000
4	REVATHI	1100
5	KAMALA	9000
6	ANAND	7899.95
7	QADIR	2650
8	MARY	22600
9	RAMESH	12599.95
10	VIJAYA	900

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

	W100.							
ELEC	T DEVELOPING,	SUM(SCOST)	FROM	SOFT	WARE 6	ROUP	BY DEV	ΕL
				OPING (SUM(SC	OST)		
		1	CPP			400		
		2	BASIC		399	.95		
		3	ORACLI	Ξ	18	000		
		4	C		8	025		
		5	PASCA	L	9199	.95		
		6	DBASE		21	000		
		7	COBOL		3	000		
		8	ASSEM	BLY	3	250		

Display each language name with average development cost, average selling cost and average price per copy

SELECT DEVELOPING, CAST(AVG(DCOST) AS DECIMAL(10,2)) AS DEVELOPMENT_COST, AVG(SCOST) AS DEVELOPMENT_COST FROM SOFTWARE GROUP BY DEVELOPING;

	LOPING 🕸 DEVELO	PMENT_COST	DEVELOPMENT_COST_1
1 CPP		1200	200
2 BASIC		6000	399.95
3 ORACI	Æ	85000	18000
4 C		7275	2006.25
5 PASCA	AL	31833.33	3066.65
6 DBASE	2	27500	10500
7 COBOI		3500	3000
8 ASSEN	MBLY	5500	1625

36 Display each programmers name costliest and cheapest packages developed.

SELECT X.PNAME AS NAME , X.DEVELOPING AS CHEAPEST, Y.DEVELOPING AS COSTLIEST FROM SOFTWARE X, SOFTWARE Y

WHERE X.PNAME=Y.PNAME AND X.DCOST=(SELECT MIN(DCOST) FROM SOFTWARE

WHERE PNAME=X.PNAME) AND Y.DCOST=(SELECT MAX(DCOST) FROM SOFTWARE

WHERE PNAME=Y.PNAME);

<pre></pre>		_	۸	Λ	Λ
2 JULIANA COBOL COBOL 3 KAMALA DBASE DBASE 4 MARY CPP ORACLE 5 PATTRICK CPP CPP 6 QADIR C ASSEMBLY 7 RAMESH PASCAL DBASE 8 REMITHA C ASSEMBLY 9 REVATHI PASCAL PASCAL			∜ NAME		
3 KAMALA DBASE DBASE 4 MARY CPP ORACLE 5 PATTRICK CPP CPP 6 QADIR C ASSEMBLY 7 RAMESH PASCAL DBASE 8 REMITHA C ASSEMBLY 9 REVATHI PASCAL PASCAL		1	ANAND	BASIC	PASCAL
4 MARY CPP ORACLE 5 PATTRICK CPP CPP 6 QADIR C ASSEMBLY 7 RAMESH PASCAL DBASE 8 REMITHA C ASSEMBLY 9 REVATHI PASCAL PASCAL		2	JULIANA	COBOL	COBOL
5 PATTRICK CPP CPP 6 QADIR C ASSEMBLY 7 RAMESH PASCAL DBASE 8 REMITHA C ASSEMBLY 9 REVATHI PASCAL PASCAL		3	KAMALA	DBASE	DBASE
6 QADIR C ASSEMBLY 7 RAMESH PASCAL DBASE 8 REMITHA C ASSEMBLY 9 REVATHI PASCAL PASCAL		4	MARY	CPP	ORACLE
7 RAMESH PASCAL DBASE 8 REMITHA C ASSEMBLY 9 REVATHI PASCAL PASCAL		5	PATTRICK	CPP	CPP
8 REMITHA C ASSEMBLY 9 REVATHI PASCAL PASCAL		6	QADIR	C	ASSEMBLY
9 REVATHI PASCAL PASCAL		7	RAMESH	PASCAL	DBASE
		8	REMITHA	C	ASSEMBLY
10 VIJAYA C C		9	REVATHI	PASCAL	PASCAL
	1	0	VIJAYA	C	C

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

SELECT INSTITUTE , COUNT(*), CAST(AVG(COURSEFEE) AS DECIMAL(10,2)) Average

FROM STUDIES X

WHERE COURSE IN (SELECT DISTINCT(COURSE) FROM STUDIES

WHERE INSTITUTE=X.INSTITUTE) GROUP BY INSTITUTE;

		<pre></pre>	
1	BITS	1	22000
2	BDPS	2	27000
3	COIT	1	7200
4	PRAGATHI	3	5466.67
5	APPLE	1	14000
6	SABHARI	3	4500

38 Display each institute name with number of students.

SELECT INSTITUTE , COUNT(*)
AS NO_OF_STUDENTS FROM STUDIES GROUP BY INSTITUTE;

	NO_OF_STUDENTS
BITS	1
BDPS	2
COIT	1
PRAGATHI	3
APPLE	1
SABHARI	3
	BITS BDPS COIT PRAGATHI APPLE

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

SELECT PNAME, SEX FROM PROGRAMMER ORDER BY SEX;

	PNAME	∯ SEX
1	REVATHI	F
2	REMITHA	F
3	REBECCA	F
4	MARY	F
5	KAMALA	F
6	JULIANA	F
7	VIJAYA	F
8	RAMESH	M
9	QADIR	M
10	NELSON	M
11	ANAND	M
12	ALTAF	M
13	PATTRICK	M

40	Display the name of programmers and their packages					
select PNAME, TITLE from software;						
					∜ TITLE	
				1 MARY	README	
				2 ANAND	PARACHUTES	
		3 ANAND	VIDEOTITLING			
		4 JULIANA	INVENTORY			
		5 KAMALA	PAYROLLPRG			
				6 MARY	FINANCIALACC	
		7 MARY	CODEGENRRATOP			
				8 PATTRICK	README	
				9 QADIR	BOMBSAWAY	
				10 QADIR	VACCINES	
				11 RAMESH	HOTLIMGMT	
				12 RAMESH	DEADLEE	
				13 REMITHA	PCUTILITIES	
				14 REMITHA	TSRHELPPKG	
				15 REVATHI	HOSPITALMGMT	
				16 VIJAYA	TSREDITOR	

41	Display the number of packages in each languages except c and c++.					
SELE	SELECT DEVELOPING, COUNT(*) FROM SOFTWARE					
WHE	WHERE DEVELOPING NOT IN ('CPP','C') GROUP BY DEVELOPING;					
		G (♦ COUNT(*)				
	1 BASIC	1				
	2 ORACLE	1				
	3 PASCAL	3				
	4 DBASE	2				
	5 COBOL	1				
	6 ASSEMBLY	2				

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

SELECT DEVELOPING, COUNT(*) FROM SOFTWARE

WHERE DCOST<=1000 GROUP BY DEVELOPING;

DEVELOPING & COUNT(*)

1 C 1

Display the average difference between Scost and Dcost for each package.

SELECT DEVELOPING , CAST(AVG(SCOST-DCOST) AS DECIMAL(10,2)) AS DIFF FROM SOFTWARE GROUP BY DEVELOPING;

		∯ DIFF
1	CPP	-1000
2	BASIC	-5600.05
3	ORACLE	-67000
4	C	-5268.75
5	PASCAL	-28766.68
6	DBASE	-17000
7	COBOL	-500
8	ASSEMBLY	-3875

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(DCOST-(SOLD*SCOST)) FROM SOFTWARE GROUP BY PNAME HAVING SUM(DCOST)>SUM(SOLD*SCOST);

PNAME	\$ SUM(SCOST)	\$ SUM(DCOST)	\$ SUM(DCOST-(SOLD*SCOST))
1 JULIANA	3000	3500	3500
2 REVATHI	1100	75000	72800

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

SELECT MAX(SALARY), MIN(SALARY), CAST(AVG(SALARY) AS DECIMAL(10,2)) AVERAGE FROM PROGRAMMER WHERE SALARY > 2000;

