Module 9

Sumia khan Completed

--Problem Statement:

--Consider yourself to be Sam and you have been given the below tasks to complete using

--the Table – STUDIES, SOFTWARE & PROGRAMMER.

Tasks to be performed:

--1. Find out the selling cost AVG for packages developed in Pascal.

Select DEVELOPIN,Avg(SCOST) AS [Avg COST]From Software

Where DEVELOPIN = 'PASCAL'

Group by DEVELOPIN

--2. Display Names, Ages of all Programmers.

Select PNAME,DATEDIFF(YYYY,DOB,GetDAte()) AS AGE From programmer

--3. Display the Names of those who have done the DAP Course.

Select PNAME,Course From studies

WHERE COURSE = 'DAP'

--4. Display the Names and Date of Births of all Programmers Born in January.

Select PNAME,DOB From programmer

Where Month(DOB) =1

--5. What is the Highest Number of copies sold by a Package?

Select Max(SOLD) AS [MAx SOld] From Software

--6. Display lowest course Fee.

Select Min(COURSE\_FEE) AS [LOWEST FEE] From studies

--7. How many programmers done the PGDCA Course?

Select \* From studies

Where COURSE = 'PGDCA'

--8. How much revenue has been earned thru sales of Packages Developed in C.

Select SUM(SOLD)\*(Avg(SCOST)/1)\*Sum(SOLD)

AS REVENUE From Software

Where DEVELOPIN = 'C'

--9. Display the Details of the Software Developed by Ramesh.

Select \* FROM Software

Where PNAME = 'Ramesh'

--10. How many Programmers Studied at Sabhari?

Select INSTITUTE,COUNT(PNAME) AS [No. OF Programmers STUDIEd]

From studies

Group by INSTITUTE

HAVING INSTITUTE = 'SABHARI'

--11. Display details of Packages whose sales crossed the 2000 Mark.

Select \* From Software

Where SCOST > 2000

--12. Display the Details of Packages for which Development Cost have been recovered.

Select \* From Software

Where SCOST > DCOST

--13. What is the cost of the costliest software development in Basic?

Select DEVELOPIN,Max(DCOST) AS [Costliest SOftware]

From Software

Where DCOST

IN(Select MAx(DCOST) From Software)

Group by DEVELOPIN

--14. How many Packages Developed in DBASE?

Select DEVELOPIN,

COUnt(DEVELOPIN) AS [No. OF DEVELOPLIN]

From Software

Where DEVELOPIN = 'DBASE'

Group By DEVELOPIN

--15. How many programmers studied in Pragathi?

Select INSTITUTE,Count(PNAME) AS [No. Of Programmers]

From studies

Where INSTITUTE = 'PRAGATHI'

Group By INSTITUTE

--16. How many Programmers Paid 5000 to 10000 for their course?

Select COunt(PNAME) AS [No.Of Programmers] From studies

Where COURSE\_FEE

Between 5000 AND 10000

--17. What is AVG Course Fee

Select AVG(COURSE\_FEE) AS [Average Fee]

From studies

--18. Display the details of the Programmers Knowing C.

Select \* From Software

Where DEVELOPIN = 'C'

--19. How many Programmers know either COBOL or PASCAL.

Select DEVELOPIN,COUNT(PNAME) AS [NO.Of Programmers] From Software

Where DEVELOPIN = 'COBOL'

OR

DEVELOPIN ='PASCAL'

Group by DEVELOPIN

--20. How many Programmers Don’t know PASCAL and C

Select COUNT(PNAME) AS [No. Of Programmers] From Software

Where DEVELOPIN NOT LIKE 'PASCAL'

AND

DEVELOPIN= 'C'

--21. How old is the Oldest Male Programmer.

Select GENDER,Max(DateDiff(YYYY,DOB,GETDATE())) As AGE

From programmer

Group by GENDER

Having GENDER = 'M'

--22. What is the AVG age of Female Programmers?

Select GENDER,avg(DateDiff(YYYY,DOB,GETDATE())) As [AVG AGE]

From programmer

Group by GENDER

Having GENDER = 'F'

--23. Calculate the Experience in Years for each Programmer and Display with their

--names in Descending order.

Select PNAME From programmer

Where DOJ

IN(Select dateDiff(YYYY,DOJ,getDate())

AS Experience From programmer)

Order by PNAME DESC

--24. Who are the Programmers who celebrate their Birthday’s During the Current

--Month?

Select PNAME,DOB From Programmer

Group by PNAME,DOB

HAving Month(DOB) = Month(getDAte())

--25. How many Female Programmers are there?

Select GENDER,Count(GENDER) AS [No. Of Programmers] From programmer

Where GENDER = 'F'

Group by GENDER

--26. What are the Languages studied by Male Programmers.

Select PNAME,PROF1,PROF2 From programmer

Where GENDER = 'M'

Group by PNAME,PROF1,PROF2

--27. What is the AVG Salary?

Select AVG(SALARY) AS [AVERAGE SALARY] FROM programmer

--28. How many people draw salary 2000 to 4000?

Select COUNT(PNAME) AS [No. Of EMployess]

From programmer

Where SALARY

Between 2000 aND 4000

--29. Display the details of those who don’t know Clipper, COBOL or PASCAL.

Select PNAME From programmer

Where not PROF1 = 'Clipper'

OR PROF1 ='COBOL'

OR PROF1 ='PASCAL'

GROUP BY PNAME

--30. Display the Cost of Package Developed By each Programmer.

Select PNAME,Sum(DCOST) AS [Developing Cost] From Software

Group by PNAME

--31. Display the sales values of the Packages Developed by the each Programmer.

Select PNAME,

Sum(SCOST) AS [Selling Cost]

From Software

Group by PNAME

--32. Display the Number of Packages sold by Each Programmer.

Select PNAME,

COUNT(SOLD)AS [No. Of Packages SOLD]

From Software

Group by PNAME

--33. Display the sales cost of the packages Developed by each Programmer Language wise.

Select DEVELOPIN,SUM(SCOST)

From Software

Group by DEVELOPIN

--34. Display each language name with AVG Development Cost, AVG Selling Cost and

--AVG Price per Copy.

Select DEVELOPIN,

AVG(DCOST)AS [AVG DCOST],

AVG(SCOST)AS [AVG SCOST],

AVG((DCOST+SCOST)/SOLD) AS [AVG per Peice]

From Software

Group by DEVELOPIN

--35. Display each programmer’s name, costliest and cheapest Packages Developed by him or

--her.

Select PNAME,

MAX(DCOST) As [Costliest],

MIN(DCOST) As [Cheapest]

From Software

Group by PNAME

--36. Display each institute name with number of Courses, Average Cost per Course.

Select INSTITUTE,

Count(COURSE) AS [No.Of Course],

AVG(COURSE\_FEE) AS [Avg fee]

From studies

Group by INSTITUTE

--37. Display each institute Name with Number of Students.

Select INSTITUTE,

COunt(PNAME)AS [No. Of Students]

From studies

Group by INSTITUTE

--38. Display Names of Male and Female Programmers. Gender also.

Select PNAME,GENDER

From programmer

Group by PNAME,GENDER

--39. Display the Name of Programmers and Their Packages.

Select PNAME,DEVELOPIN

From Software

Group by PNAME,DEVELOPIN

--40. Display the Number of Packages in Each Language Except C and C++.

Select DEVELOPIN,

COUNT(DEVELOPIN) AS [No. Of LAnguages]

From Software

Where NOT DEVELOPIN = 'C'

AND DEVELOPIN ='C++'

Group by DEVELOPIN

--41. Display the Number of Packages in Each Language for which Development Cost is

--less than 1000.

Select DEVELOPIN,

COUNT(DEVELOPIN) AS [No.Of Prackages]

From Software

Where DCOST<1000

Group by DEVELOPIN

--42. Display AVG Difference between SCOST, DCOST for Each Package.

Select DEVELOPIN,

AVG(DCOST)-AVG(SCOST) AS [AVERAGAE DIFFERENCE]

From Software

Group by DEVELOPIN

--43. Display the total SCOST, DCOST and amount to Be Recovered for each

--Programmer for Those Whose Cost has not yet been Recovered.

Select PNAME,SCOST,DCOST,DCOST-SCOST AS [Not REcoverd]

From Software

Group by PNAME,SCOST,DCOST

Having SCOST < DCOST

--44. Display Highest, Lowest and Average Salaries for those earning more than 2000.

Select PNAME,MAX(SALARY) AS [MAXIMUM SALARY],

MIN(SALARY) As [MININUM SALARY],

AVG(SALARY) AS [AVG SALARY]

From programmer

Group by PNAME,SALARY

HAVING SALARY > 2000

--45. Who is the Highest Paid C Programmers?

Select Top 1 \*

From programmer

Where 'C' IN (PROF1,PROF2)

Order by SALARY DESC

--46. Who is the Highest Paid Female COBOL Programmer?

Select Top 1 \*

From programmer

Where 'COBOL' IN (PROF1,PROF2)

AND GENDER ='F'

Order by SALARY DESC

--47. Display the names of the highest paid programmers for each Language.

Create table #temp0

(

Profes varchar(100),

Salary int

)

--Inserting two columns of PROF1,PROF2 into the one temporary table

Insert into #temp0

Select PROF1,SALARY

From programmer

Insert into #temp0

Select PROF2,SALARY

From programmer

Select \* from #temp0

Create table #temp2

(

Profes varchar(100),

Salary int

)

Insert into #temp2

Select Profes,Max(Salary)

From #temp0

Group by Profes

Select \* from #temp2

Select p.PNAME,t.Profes,t.Salary

From #temp2 t

Join programmer p

On p.PROF1 = t.Profes OR P.PROF2 = t.Profes

Where p.SALARY = t.Salary

--48. Who is the least experienced Programmer.

Select PNAME,DateDiff(YY,DOJ,getDAte()) AS [Years of Experience]

From programmer

Where DateDiff(YY,DOJ,getDAte()) = (Select MIN(DateDiff(YY,DOJ,getDAte())) FROM programmer)

--49. Who is the most experienced male programmer knowing PASCAL.

Select PNAME,GENDER,DateDiff(YY,DOJ,getDAte()) AS [Years of Experience]

From programmer

Where DateDiff(YY,DOJ,getDAte()) = (Select MAX(DateDiff(YY,DOJ,getDAte()))

FROM programmer

Where GENDER = 'M'

AND PROF1='COBOL'

OR PROF2 = 'COBOL')

--50. Which Language is known by only one Programmer?

Select PROF1,PROF2

From programmer

Group by PROF1,PROF2

Having PROF1 NOT IN(Select PROF2 From programmer)

AND Count(PROF1) = 1

Union

Select PROF2,PROF1

From programmer

Group by PROF1,PROF2

Having PROF2 NOT IN(Select PROF1 From programmer)

AND Count(PROF2) = 1

--51. Who is the Above Programmer Referred in 50?

Create table #temp1

(

PROF Varchar(100)

)

Insert into #temp1

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

SELECT PNAME,PROF

From programmer

Join #temp1

on PROF=PROF1

OR PROF = PROF2

--52. Who is the Youngest Programmer knowing DBASE?

Select PNAME,DAteDiff(YY,DOB,getDAte()) AS [Youngest Programmer]

From programmer

where DateDiff(YY,DOB,getDate())= (Select MIN(DAteDiff(YY,DOB,GetDate())) From programmer

Where 'DBASE' IN (PROF1,PROF2))

--53. Which Female Programmer earning more than 3000 does not know C, C++,

--ORACLE or DBASE?

Select PNAME,GENDER,SALARY

From programmer

Where Salary > 3000

AND GENDER= 'F'

AND PROF1 NOT IN ('C','C++','ORACLE','DBASE')

--54. Which Institute has most number of Students?

Create table #temp4

(

Institute varchar(100),

Students int

)

Insert into #temp4

Select INSTITUTE, COUNT(PNAME)

From studies

Group by INSTITUTE

Select \* FROM #temp4

Select Institute,Students AS[No. of Students]

From #temp4

Where Students = (Select MAX(Students) From #temp4)

--55. What is the Costliest course?

Select COURSE, COURSE\_FEE AS [Costliest COURSE]

From studies

Where COURSE\_FEE = (Select Max(COURSE\_FEE) From studies)

--56. Which course has been done by the most of the Students?

CREATE TABLE #Coure

(

CourNam VARCHAR(20),

StdNo INT

)

INSERT INTO #Coure

SELECT COURSE,COUNT(PNAME)

FROM studies

GROUP BY COURSE

Select \* from #Coure

SELECT CourNam,StdNo AS [COUNT OF STUDENTS]

FROM #Coure

WHERE StdNo =

(SELECT MAX(StdNo) FROM #Coure)

--57. Which Institute conducts costliest course.

Select INSTITUTE,COURSE\_FEE

From studies

Where COURSE\_FEE = (Select MAX(COURSE\_FEE) From studies)

--58. Display the name of the Institute and Course, which has below AVG course fee.

Select INSTITUTE,COURSE,COURSE\_FEE

From studies

Where COURSE\_FEE < (Select AVG(COURSE\_FEE) FROm studies)

--59. Display the names of the courses whose fees are within 1000 (+ or -) of the

--Average Fee,

Select COURSE,COURSE\_FEE

From studies

Where COURSE\_FEE <(Select Avg(COURSE\_FEE)+1000 FRom studies)

AND COURSE\_FEE >(Select Avg(COURSE\_FEE)-1000 FRom studies)

Group by COURSE

--60. Which package has the Highest Development cost?

Select TITLE,DCOST

From Software

Where DCOST = (Select MAx(DCOSt) From Software)

--61. Which course has below AVG number of Students?

Create Table #AvgCO

(

Course varchar(100),

NameCount int

)

Insert into #AvgCO

Select COURSE,COunt(Pname)

From studies

Group by COURSE

Select \* from #AvgCO

Select Course,NameCount

From #AvgCO

Where NameCount <= (Select Avg(NameCount) from #AvgCO)

--62. Which Package has the lowest selling cost?

Select TITLE,SCOST

From Software

Where SCOST = (Select MIN(SCOST) From Software)

Group by TITLE,SCOST

--63. Who Developed the Package that has sold the least number of copies?

Select PNAME,TITLE,SOLD

From Software

Where SOLD =

(

Select Min(SOLD) From Software

)

--64. Which language has used to develop the package, which has the highest

--sales amount?

Select TITLE,DEVELOPIN,SOLD

From Software

Where SOLD = (Select MAX(SOLD) From Software)

--65. How many copies of package that has the least difference between

--development and selling cost where sold.

Select TITLE,SOLD,DCOST-SCOST As [Least Difference]

From Software

Where DCOST-SCOST =

(

Select MIN(DCOST-SCOST)

From Software

)

--66. Which is the costliest package developed in PASCAL.

Select TITLE,DEVELOPIN,DCOST

From Software

Where DCOST = (Select MAX(DCOST) FROM Software Where DEVELOPIN = 'PASCAL')

--67. Which language was used to develop the most number of Packages.

Create table #Temp01

(

Developin varchar(100),

counts int

)

Insert into #temp01

Select DEVELOPIN,COUNT(TITLE)

From Software

Group by DEVELOPIN

Select \* from #Temp01

Select DEVELOPIN,counts

From #temp01

Where counts = (Select MAx(Counts)From #temp01)

--68. Which programmer has developed the highest number of Packages?

Create table #temp0

(

PNAME Varchar(100),

Counts int

)

INsert into #temp0

Select PNAME,COUNT(TITLE)

From Software

Group by PNAME

Select \* from #temp0

Select PNAME,Counts

From #temp0

Where Counts = (Select MAX(Counts) From #temp0)

--69. Who is the Author of the Costliest Package?

Select PNAME,TITLE,SCOST

From Software

Where SCOST = (Select Max(SCOST) From Software)

--70. Display the names of the packages, which have sold less than the AVG

--number of copies.

Select TITLE,SOLD

From Software

Where SOLD < (Select AVG(SOLD) From Software)

--71. Who are the authors of the Packages, which have recovered more than double the

--Development cost?

Select PNAME,TITLE

From Software

Where SOLD\*SCOST> 2\*DCOST

----72. Display the programmer Name and the cheapest packages developed by them in

----each language.

Create table #temp13

(

pname varchar(100),

Title varchar(100),

Dcost int

)

Insert into #temp13

Select PNAME,TITLE,MIN(DCOST)

From Software

Group by PNAME,TITLE

Select \* From #temp13

Select pname,Title,Dcost

From #temp13

where Dcost = (Select MIn(Dcost)

from #temp13)

--73. Display the language used by each programmer to develop the Highest

--Selling and Lowest-selling package.

Select PNAME,DEVELOPIN,SOLD,'HIGHEST' AS [Selling COst]

From Software

Where SOLD

IN(Select MAX(SOLD) FROM Software)

UNION

Select PNAME,DEVELOPIN,SOLD,'LOWEST'

FRom Software

Where SOLD

IN (Select Min(SOLD) From Software)

--74. Who is the youngest male Programmer born in 1965?

Select PNAME,DOB,GENDER

from programmer

Where DateDIff(DD,DOB,getDAte()) =

(Select MIN(DateDIff(DD,DOB,getDAte()))

From programmer

Where GENDER = 'M'

AND Year(DOB) = '1965')

--75. Who is the oldest Female Programmer who joined in 1992?

Select PNAME,GENDER,Year(DOJ)

From programmer

Where DAteDiff(DD,DOB,getdate()) =

(Select MAx(DateDiff(DD,DOB,getDAte()))

From programmer

Where YEAR(DOJ) = '1992'

AND GENDER = 'F')

--76. In which year was the most number of Programmers born.

--COunt(year) is MAx DOB ? from programmers

CREATE TABLE #TEMP

(

YOB INT,

CNT INT

)

INSERT INTO #TEMP

SELECT YEAR(DOB),COUNT(YEAR(DOB))

FROM programmer

GROUP BY YEAR(DOB)

SELECT YOB, CNT

FROM #TEMP

WHERE CNT= (SELECT MAX(CNT) FROM #TEMP)

--77. In which month did most number of programmers join?

Create table #temp4

(

MOJ int,

COUNTS int

)

Insert Into #temp4

Select MONTH(DOJ),Count(MONTH(DOJ))

From programmer

Group by Month(DOJ)

Select MOJ,COUNTS

From #temp4

Where COUNTS =

(Select MAX(COUNTS) From #temp4)

--78. In which language are most of the programmers proficient.

Create table #temp1

(

Prof varchar(20),

Counts int

)

Insert into #temp1

Select PROF1,COUNT(PROF1)

FROM programmer

Group by PROF1

Union all

Select PROF2, COUNT(PROF2)

From programmer

Group by PROF2

Select \* from #temp1

Create table #Summ

(

Pr varchar(20),

Counts int

)

INsert into #Summ

Select Prof,Sum(Counts)

From #temp1

Group by Prof

Select \* from #Summ

Select Pr,Counts

From #Summ

where Counts = (Select MAX(Counts) From #Summ)

--79. Who are the male programmers earning below the AVG salary of

--Female Programmers?

Select PNAME,SALARY

From programmer

Where GENDER = 'M'

AND

SALARY < (Select AVG(Salary)

From programmer

Where GENDER = 'F')

--80. Who are the Female Programmers earning more than the Highest Paid male?

Select PNAME,SALARY

FROM programmer

Where GENDER = 'F'

AND SALARY >

(Select MAX(SALARY) FROM programmer

Where GENDER = 'M')

--81. Which language has been stated as the proficiency by most of the Programmers?

Create table #temp1

(

Prof varchar(20),

Counts int

)

Insert into #temp1

Select PROF1,COUNT(PROF1)

FROM programmer

Group by PROF1

Union all

Select PROF2, COUNT(PROF2)

From programmer

Group by PROF2

Select \* from #temp1

Create table #Summ

(

Pr varchar(20),

Counts int

)

INsert into #Summ

Select Prof,Sum(Counts)

From #temp1

Group by Prof

Select \* from #Summ

Select Pr,Counts

From #Summ

where Counts = (Select MAX(Counts) From #Summ)

--82. Display the details of those who are drawing the same salary.

Select A.PNAME,A.SALARY From programmer A

JOIN Programmer B

On A.SALARY = B.SALARY

AND A.PNAME <> B.PNAME

Order by SALARY

--83. Display the details of the Software Developed by the Male Programmers Earning

--More than 3000/-.

Select \* FROM Software

Where PNAME

IN(Select PNAME FROm programmer

WHere GENDER = 'M'

AND SALARY > 3000)

--84. Display the details of the packages developed in Pascal by the Female

--Programmers.

Select \*

FROM Software S,

programmer p

Where S.PNAME = P.PNAME

AND GENDER = 'F'

AND DEVELOPIN = 'PASCAL'

--85. Display the details of the Programmers who joined before 1990.

Select \* from programmer

Where Year(DOJ)<1990

--86. Display the details of the Software Developed in C By female programmers of

--Pragathi.

Select s.\*,GENDER,DEVELOPIN,INSTITUTE

fROm Software s,programmer p,studies t

Where p.PNAME = s.PNAME

AND s.PNAME = t.PNAME

AND p.GENDER = 'F'

AND s.DEVELOPIN = 'C'

AND t.INSTITUTE = 'PRAGATHI'

--87. Display the number of packages, No. of Copies Sold and sales value of

--each programmer institute wise.

Select t.INSTITUTE,Count(s.TITLE) as [No.of Packages],Count(s.SOLD) as [No. of Sold], Sum(SCOST\*SOLD) as [Sales value]

From Software s, studies t

Where s.PNAME = t.PNAME

Group by INSTITUTE

--88. Display the details of the software developed in DBASE by Male Programmers, who

--belong to the institute in which most number of Programmers studied.

Select s.\* from Software s,programmer p,studies t,#INST

Where t.PNAME = s.PNAME

AND s.PNAME = p.PNAME

AND DEVELOPIN = 'DBASE'

AND GENDER ='M'

AND INSTITUTE = INS

AND CNT= (SELECT MAX(CNT) FROM #INST)

--89. Display the details of the software Developed by the male programmers Born

--before 1965 and female programmers born after 1975.

Select s.\*,p.GENDER,Year(p.DOB) AS [Year of Birth]

from Software s,programmer p

Where p.PNAME = s.PNAME

AND

((GENDER = 'M' AND YEAR(DOB)<1965) OR (GENDER = 'F' ANd YEAR(DOB)>1975))

--90. Display the details of the software that has developed in the language which is

--neither the first nor the second proficiency of the programmers.

Select s.\* FROM Software s, programmer p

Where s.PNAME = p.PNAME

AND s.DEVELOPIN <> p.PROF1

AND s.DEVELOPIN <> p.PROF2

--91. Display the details of the software developed by the male students of Sabhari.

Select s.\*,p.GENDER,t.INSTITUTE from Software s,programmer p, studies t

Where s.PNAME = t.PNAME ANd p.PNAME = s.PNAME

AND p.GENDER = 'M'

AND t.INSTITUTE = 'SABHARI'

--92. Display the names of the programmers who have not developed any packages.

Select PNAME From programmer

Where PNAME

NOT IN (Select PNAME From Software)

Select DEVELOPIN From Software

Where DEVELOPIN = NULL

--93. What is the total cost of the Software developed by the programmers of Apple?

Select SUM(s.SCOST) FROM Software s, studies t

Where t.PNAME = S.PNAME

AND t.INSTITUTE = 'APPLE'

--94. Who are the programmers who joined on the same day?

Select A.PNAME,A.DOJ from programmer A

JOIn programmer B

ON A.DOJ = B.DOJ

AND A.PNAME <> B.PNAME

Order by DOJ

--95. Who are the programmers who have the same Prof2?

Select DISTINCT A.PNAME,A.PROF2 FROM programmer A

JOin programmer B

ON A.PROF2 = B.PROF2

ANd A.PNAME <> B.PNAME

Order by A.PROF2

--96. Display the total sales value of the software, institute wise.

Select t.INSTITUTE,SUM(s.SCOST\*s.SOLD) AS [TOtal sale]

FRom Software s, studies t

Where s.PNAME = t.PNAME

GROUP BY t.INSTITUTE

--97. In which institute does the person who developed the costliest package studied.

Select s.PNAME,t.INSTITUTE,s.DEVELOPIN,s.DCOST

FROM Software S, studies t

Where s.PNAME = t.PNAME

AND DCOST= (Select MAX(DCOST) AS [Costliest Package] from Software)

--98. Which language listed in prof1, prof2 has not been used to develop any package.

Select DISTINCT PROF1 FROm programmer

Where PROF1

NOT IN (Select DEVELOPIN FROM Software)

UNION

Select DISTINCT PROF2 From programmer

Where PROF2

NOT IN (Select DEVELOPIN FROM Software)

--99. How much does the person who developed the highest selling package earn and

--what course did HE/SHE undergo.

Select s.PNAME,COURSE,SALARY from programmer p,studies t, Software s

Where p.PNAME = t.PNAME AND t.PNAME = s.PNAME

AND SOLD =(SELECT MAX(SOLD) From Software)

--100. What is the AVG salary for those whose software sales is more than 50,000/-.

Select AVG(SALARY) as [AVERAGE SALARY]

FROM programmer p,Software s

Where p.PNAME = s.PNAME

AND s.SOLD\*s.SCOST> 50000

--101. How many packages were developed by students, who studied in institute that

--charge the lowest course fee?

Select s.PNAME,INSTITUTE,COUNT(TITLE) as[NO.of PAckages] FROM Software s,studies t

Where s.PNAME = t.PNAME

AND s.PNAME IN(Select PNAME From studies

where INSTITUTE =(Select DISTINCT INSTITUTE from studies

Where COURSE\_FEE = (Select MIN(COURSE\_FEE) from studies)))

Group by s.PNAME,INSTITUTE

--102. How many packages were developed by the person who developed the

--cheapest package, where did HE/SHE study?

SELECT TG.\*, ST.INSTITUTE FROM studies AS ST INNER JOIN

(

SELECT SW.PNAME, COUNT(TITLE) AS SWCNT

--INSTITUTE

FROM software AS SW

--INNER JOIN studies AS ST ON SW.PNAME=ST.PNAME

WHERE SW.PNAME = (SELECT PNAME FROM software WHERE DCOST = (SELECT MIN(DCOST) FROM software))

GROUP BY SW.PNAME

) AS TG

ON ST.PNAME= TG.PNAME

--103. How many packages were developed by the female programmers earning more

--than the highest paid male programmer?

Select s.PNAME,COUNT(TITLE)AS [No. Of PAckages]

From Software s, programmer p

Where s.PNAME = p.PNAME

AND GENDER = 'F'

ANd SALARY > (Select MAX(SALARY) From programmer

Where GENDER = 'M')

GROUP by s.PNAME

--104. How many packages are developed by the most experienced programmer form

--BDPS.

Select PNAME from Software

Where PNAME =

(Select PNAME from programmer

Where DateDiff(DD,DOJ,getDAte())=

(Select MAX(DateDiff(DD,DOJ,getDate())) from programmer p,studies t

Where p.PNAME = t.PNAME AND p.PNAME IN(Select PNAME from studies

Where t.INSTITUTE = 'BDPS')))

--105. List the programmers (form the software table) and the institutes they studied.

Select PNAME,INSTITUTE From studies

Where PNAME IN(Select PNAME From Software)

--106. List each PROFIT with the number of Programmers having that PROF and the

--number of the packages in that PROF.

Select DEVELOPIN,SUm(SCOST\*SOLD-DCOST) AS [PROFIT],COUNT(1) As [No.of Programmers]

from Software

Where DEVELOPIN IN

((Select PROF1 FROM programmer) UNION ALL(Select PROF2 From programmer))

Group by DEVELOPIN

--107. List the programmer names (from the programmer table) and No. Of Packages

--each has developed.

Select s.PNAME,COUNT(TITLE) AS [No. of Packages] from programmer p,Software s

Where s.PNAME = p.PNAME

Group by s.PNAME