1. Number of students enrolled in the course

SELECT count(StudentID)Number  
 ,[CourseID]  
 FROM [Schools\_K12\_DW].[dbo].[factStudentCourse]  
 group by CourseID  
 order by number

1. Number of dropped out students

Declare @tablevar Table( NumberofDropOuts INT, NameOfYear nchar(20));  
DECLARE @studentTotal INT  
DECLARE @cnt INT = 2007;  
  
SET @studentTotal = (select count(studentid) from dbo.dimStudent)  
while @cnt < 2011  
begin  
Insert into @tablevar(NumberofDropOuts,NameOfYear)(  
select count(\*) NumberofDropOuts,@cnt  
 from(  
SELECT studentid,count(studentid)Value   
FROM [Schools\_K12\_DW].[dbo].[dimWithdrawalCode]  
inner join dbo.factStudentCourse on  
 [dbo].[dimWithdrawalCode].WithdrawalCodeID = dbo.factStudentCourse.WithdrawalCodeID  
 where [WithdrawalCodeDesc] Like 'W%' and  
 Year(WithdrawalDate) = @cnt  
GROUP BY studentid  
)total)  
 SET @cnt = @cnt + 1  
end  
  
select \* from @tablevar

1. Students on long leave

Declare @tablevar Table( Number INT , NameOfMonth nchar(20));  
DECLARE @studentTotal INT  
DECLARE @cnt INT = 1;  
  
SET @studentTotal = (select count(studentid) from dbo.dimStudent)  
while @cnt < 13  
begin  
Insert into @tablevar(Number,NameOfMonth)(  
select (count(\*))Number ,  
DateName( month , DateAdd( month , @cnt , 0 ) - 1 )  
 from(  
SELECT studentid,count(absencecount)Value  
 , COUNT(CASE WHEN MONTH(absencedate) = 1 THEN 1 ELSE NULL END) January  
 , COUNT(CASE WHEN MONTH(absencedate) = 2 THEN 1 ELSE NULL END) Feburary  
 , COUNT(CASE WHEN MONTH(absencedate) = 3 THEN 1 ELSE NULL END) March  
 , COUNT(CASE WHEN MONTH(absencedate) = 4 THEN 1 ELSE NULL END) April  
 , COUNT(CASE WHEN MONTH(absencedate) = 5 THEN 1 ELSE NULL END) May  
 , COUNT(CASE WHEN MONTH(absencedate) = 6 THEN 1 ELSE NULL END) June  
 , COUNT(CASE WHEN MONTH(absencedate) = 7 THEN 1 ELSE NULL END) July  
 , COUNT(CASE WHEN MONTH(absencedate) = 8 THEN 1 ELSE NULL END) August  
 , COUNT(CASE WHEN MONTH(absencedate) = 9 THEN 1 ELSE NULL END) September  
 , COUNT(CASE WHEN MONTH(absencedate) = 10 THEN 1 ELSE NULL END) October  
 , COUNT(CASE WHEN MONTH(absencedate) = 11 THEN 1 ELSE NULL END) November  
 , COUNT(CASE WHEN MONTH(absencedate) = 12 THEN 1 ELSE NULL END) December  
FROM dbo.factAbsence where Month(AbsenceDate) = @cnt  
  
GROUP BY studentid  
having COUNT(absenceDate) >7  
)total)  
 SET @cnt = @cnt + 1  
end  
  
select \* from @tablevar

1. Number of students involved in adulteration acts

select DisciplineActionDesc,DisciplineEventDesc,count(StudentID)NumberOfStudents from dbo.dimDisciplineActionCode a   
inner join dbo.factDiscipline d on  
d.DisciplineActionCodeID = a.DisciplineActionCodeID   
inner join dbo.dimDisciplineEventCode e on   
d.DisciplineEventCodeID = e.DisciplineEventCodeID  
group by DisciplineActionDesc,DisciplineEventDesc

1. Number of students skipping class often

select DisciplineActionDesc,DisciplineEventDesc,count(StudentID)NumberOfStudents from dbo.dimDisciplineActionCode a   
inner join dbo.factDiscipline d on  
d.DisciplineActionCodeID = a.DisciplineActionCodeID   
inner join dbo.dimDisciplineEventCode e on   
d.DisciplineEventCodeID = e.DisciplineEventCodeID  
group by DisciplineActionDesc,DisciplineEventDesc

1. Number of students on disciplinary list more than once

select count(DisciplineID)Number, StudentID from dbo.factDiscipline  
group by studentid   
having count(DisciplineID) > 1  
order by studentid

1. Number of students on disciplinary list more than 5 times.

select count(DisciplineID)Number, StudentID from dbo.factDiscipline  
group by studentid   
having count(DisciplineID) > 5  
order by studentid

1. Max number of students failed in a particular course

select count(StudentID)FailedStudents,CourseID from dbo.factStudentCourse c inner join dbo.factStudentCourseGrade g  
on c.StudentCourseID = g.StudentCourseID where AlphaGrade ='F'group by CourseID order by FailedStudents desc

1. Percentage of students receiving a particular grade

Declare @studentTotal INT  
SET @studentTotal = (select count(studentid) from dbo.dimStudent)  
select ((count(distinct(StudentID))\*1.0/@studentTotal)\*100)PercentagePerGrade,AlphaGrade from dbo.factStudentCourse c inner join dbo.factStudentCourseGrade g  
on c.StudentCourseID = g.StudentCourseID   
group by AlphaGrade

1. People with disability and are frequently absent

Declare @studentTotal INT  
SET @studentTotal = (select count(studentid) from dbo.dimStudent)  
select (count(\*)) CountOfAbsecnceStudent from(  
SELECT StudentName,Program,AbsenceCount  
 FROM [Schools\_K12\_DW].[dbo].[factAbsence] a  
 inner join dbo.dimStudent s on  
 s.StudentID = a.StudentID   
 inner join dbo.factSpecialProgram sp on  
 sp.StudentID = s.StudentID  
 inner join dbo.dimSpecialProgram sr on  
 sr.ProgramID = sp.ProgramID  
 where Program like 'S%')total

1. People gifted but are on disciplinary

SELECT StudentName  
 FROM [Schools\_K12\_DW].[dbo].[factDiscipline] d  
 inner join dbo.dimStudent s on  
 s.StudentID = d.StudentID   
 inner join dbo.factSpecialProgram sp on  
 sp.StudentID = s.StudentID  
 inner join dbo.dimSpecialProgram sr on  
 sr.ProgramID = sp.ProgramID  
 where Program like 'GIFTED'

1. Grade level below average of disabled people.

Declare @tablevar Table( Total FLoat, ID INT);  
  
 insert into @tablevar(Total,ID)(  
 SELECT sum(NumericGrade),(s.StudentID)ID  
 FROM [Schools\_K12\_DW].[dbo].[dimSpecialProgram] dsp  
 inner join dbo.factSpecialProgram dfs on  
 dfs.ProgramID = dsp.ProgramID   
 inner join dbo.dimStudent s on  
 s.StudentID = dfs.StudentID   
 inner join dbo.factStudentCourse fsc on  
 s.StudentID = fsc.StudentID   
 inner join dbo.factStudentCourseGrade fg on  
 fg.StudentCourseID = fsc.StudentCourseID  
 where Program = 'SPECIFIC LEARNING DISABLED'  
 group by s.StudentID)  
  
Declare @check INT  
Set @check = (select avg(Total) from @tablevar)  
  
 select count(case when Total < @check then 1 else null end)BelowAvg, count(Total)TotalDisabledStudents from @tablevar