1. Top reason of absence

SELECT top 1  
 [AbsenceCodeDesc]  
 ,COUNT(\*)Value  
 FROM [Schools\_K12\_DW].[dbo].[factAbsence]  
 inner join dbo.dimAbsenceCode on   
 dbo.dimAbsenceCode.AbsenceCodeID = dbo.factAbsence.AbsenceCodeID  
 GROUP BY [AbsenceCodeDesc]  
 ORDER BY Value desc

1. Percentage of students absent for more than 3 days in a month

Declare @tablevar Table( PercentageOfStudents nchar(20) , 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(PercentageOfStudents,NameOfMonth)(  
select (count(\*) \* 100/@studentTotal)Percentage ,  
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) >3  
)total)  
 SET @cnt = @cnt + 1  
end  
  
select \* from @tablevar

1. Percentage of people taking long leave(more than a week)

Declare @tablevar Table( PercentageOfStudents nchar(20) , 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(PercentageOfStudents,NameOfMonth)(  
select (count(\*) \* 100/@studentTotal)Percentage ,  
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. Percentage of students enrolled per year

Declare @tablevar Table( PercentageOfStudents nchar(20) , NameOfYear nchar(20));  
DECLARE @studentTotal INT  
DECLARE @cnt INT = 2007;  
  
SET @studentTotal = (select count(studentid) from dbo.dimStudent)  
while @cnt < 2010  
begin  
Insert into @tablevar(PercentageOfStudents,NameOfYear)(  
select (count(\*) \* 100/@studentTotal)Percentage ,@cnt  
 from(  
SELECT studentid,count(studentid)Value   
FROM dbo.[dimStudent] where Year([EnrollmentDate]) = @cnt  
GROUP BY studentid  
)total)  
 SET @cnt = @cnt + 1  
end  
  
select \* from @tablevar

1. Percentage of dropped out students each year

Declare @tablevar Table( NumberofDropOuts INT,PercentageOfStudents nchar(20) , 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,PercentageOfStudents,NameOfYear)(  
select count(\*) NumberofDropOuts,((count(\*) \* 1.0/@studentTotal)\*100)Percentage ,@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. No of students expelled from college

select count(\*) TotalNumber from (SELECT StudentID  
 FROM [Schools\_K12\_DW].[dbo].dimDisciplineActionCode f  
 inner join dbo.factDiscipline a on  
 a.DisciplineActionCodeID = f.DisciplineActionCodeID   
 inner join dbo.dimDisciplineEventCode e on  
 e.DisciplineEventCodeID = a.DisciplineEventCodeID  
 group by StudentID)TotalNumber

1. Frequent disciplinary action used

select count(DisciplineActionDesc)CountofDisciplineActionDesc,DisciplineActionDesc  
 FROM [Schools\_K12\_DW].[dbo].dimDisciplineActionCode f  
 inner join dbo.factDiscipline a on  
 a.DisciplineActionCodeID = f.DisciplineActionCodeID  
 group by DisciplineActionDesc

1. Frequency of adulteration acts like smoking, alcohol, gambling, forgery

select count([DisciplineEventDesc])CountofDisciplineActionDesc,[DisciplineEventDesc]  
 FROM [Schools\_K12\_DW].[dbo].[dimDisciplineEventCode] f  
 inner join dbo.factDiscipline a on  
 a.DisciplineEventCodeID = f.DisciplineEventCodeID  
 group by [DisciplineEventDesc]

1. Percentage of students below target score

Declare @studentTotal INT  
SET @studentTotal = (select count(studentid) from dbo.dimStudent)  
  
select (count(\*)\*1.0/@studentTotal)\* 100 PercentageBelowTarget from(  
SELECT StudentID  
 FROM [Schools\_K12\_DW].[dbo].[factStudentCourseGrade] f  
 inner join dbo.factStudentCourse o on  
 f.StudentCourseID = o.StudentCourseID  
 where [AlphaGrade] like 'F'  
 group by StudentID) t

1. People with specific learning disability

SELECT count(StudentID)CountOfStudents,Program   
 FROM [Schools\_K12\_DW].[dbo].[factSpecialProgram] s  
 inner join dbo.dimSpecialProgram p on  
 s.ProgramID= p.ProgramID  
 group by Program

1. People with gifted ability

SELECT count(StudentID)CountOfStudents,Program   
 FROM [Schools\_K12\_DW].[dbo].[factSpecialProgram] s  
 inner join dbo.dimSpecialProgram p on  
 s.ProgramID= p.ProgramID  
 group by Program

1. People on disciplinary and are gifted.

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. Number of people with disability and 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 'SPECIFIC LEARNING DISABLED'

1. Absence percentage of disabled students

Declare @studentTotal INT  
SET @studentTotal = (select count(studentid) from dbo.dimStudent)  
select (count(\*)\*1.0/@studentTotal)\*100 PercentageOfAbsecnce from(  
SELECT StudentName,Program  
 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