Admin Perspective:

1.Absence model

1. Order in descending order the staff names based on the total number of students with the “Missing” and “Skipping class” absent code description on a yearly basis.

select x.StaffName from dimStaff as x,

(select count(t.StudentID) as TotalStudents,k.StaffID,c.AbsenceCodeDesc,v.YearName from dimStudent as t,dimAbsenceCode as c, factAbsence

as a,dimDate as v,dimStaff as k where

c.AbsenceCodeID=a.AbsenceCodeID and

a.StudentID=t.StudentID

and

k.StaffID=a.StaffID and

v.DatePK=a.AbsenceDate and

c.AbsenceCodeDesc IN('Missing','SKIPPING CLASS')

group by c.AbsenceCodeDesc,v.YearName,k.StaffID) as o

where x.StaffID=o.StaffID

order by o.TotalStudents DESC;

2.Discipline model

1. List total number of males and females involved in disciplinary actions on a yearly basis.

select count(f.studentid) Studentcount,YEAR(f.eventdate) As Year ,s.Gender from factDiscipline f,dimStudent s,dimDate d

where f.StudentID=s.StudentID and

f.EventDate=d.DatePK

and s.Gender='M'

group by YEAR(f.eventdate),s.Gender

union

select count(f.studentid),YEAR(f.eventdate) As Year,s.Gender from factDiscipline f,dimStudent s,dimDate d

where f.StudentID=s.StudentID and

f.EventDate=d.DatePK

and s.Gender='F'

group by YEAR(f.eventdate),s.Gender;

3.SpecialProgram

1. Total number of students in each program in one year.

select count(f.SISStudentID) as TotalStudents, d.Program,t.YearName from factSpecialProgram as f,

dimSpecialProgram as d, dimDate as t

where f.ProgramID=d.ProgramID and

f.EntryDate=t.DatePK and

t.YearName='Calendar 2009'

group by d.Program,t.YearName;

4.Academic performance

1. Course with maximum enrollment.

select TOP 1 c.CourseTitle,count(s.studentID) EnrollmentCount from dbo.dimCourse c,dbo.factStudentCourse sc, dbo.dimStudent s

where c.CourseID = sc.CourseID

AND sc.StudentID= s.studentID

group by c.CourseTitle

order by count(s.studentID) DESC

Teacher perspective:

1.Absence model

1. Number of students who missed the class in a particular month based on date on which class is missed, reason for missing the class and course for which class is missed.

select distinct count(dst.StudentID) NumberOfStudentsAbsent, dd.DateName as AbsenceDate, dac.AbsenceCodeDesc as AbsenceReason, c.CourseTitle, ds.StaffName

from dbo.factAbsence fa, dbo.dimAbsenceCode dac, dbo.dimStaff ds, dbo.dimdate dd, dbo.dimStudent dst, dbo.factStudentCourse fsc,dbo.dimCourse c

where dac.AbsenceCodeID = fa.AbsenceCodeID

And fsc.CourseID = c.CourseID

AND dst.StudentID = fa.StudentID

AND fsc.StudentID = dst.StudentID

AND dd.DatePK = fa.AbsenceDate

And ds.StaffID = fa.StaffID

AND ds.StaffID= fsc.StaffID

And ds.StaffID = 17

And Month(fa.AbsenceDate) = 3

group by dd.DateName, dac.AbsenceCodeDesc, ds.StaffName, c.CourseTitle

2.Discipline model

1. List student names involved in respective disciplinary events on a monthly basis.

select s.StudentName,s.StudentID,e.DisciplineEventDesc,t.MonthName from dimStudent s, factDiscipline d, dimDate t,dimDisciplineEventCode e

where s.StudentID=d.StudentID and

t.DatePK=d.EventDate and

e.DisciplineEventCodeID=d.DisciplineEventCodeID

group by s.StudentName,t.MonthName,s.StudentID,e.DisciplineEventDesc;

3.SpecialProgram

1. List of students pursuing a specific special program.

select StudentName from factSpecialProgram sp, dimStudent s,dimspecialprogram d

where s.StudentID= sp.StudentID

AND s.SISStudentID= sp.SISStudentID

and sp.programid=d.programid

and d.program='gifted';

4.Academic performance

. Number of students in a class who have HSGT scaled score greater than 550 for the respective teacher’s class.

select st.StaffName,count(f.StudentID)NoOfStudentsAbovegrade550 from factHSGTScore f,dimCourse c,dimSubject su,dimStaff st,factStudentCourse fs

where f.SubjectID=su.SubjectID and

su.SubjectID=c.SubjectID and

c.CourseID=fs.CourseID and

f.ScaledScore>550 and

fs.StaffID=st.StaffID and

fs.StaffID=46

group by st.StaffName;

Parent Perspective:

1.Absence model

1. Total Number of days student has missed class for a assigned staff and facility

select s.StudentID,s.StudentName,f.FacilityName,st.StaffFirstName,count(a.AbsenceID) as TotalAbsences,d.SchoolMonthName from dimStudent s, dimFacility f,

dimStaff st,factAbsence a,dimDate d

where

s.StudentID=a.StudentID and

f.FacilityID=a.FacilityID and

st.StaffID=a.StaffID and

d.DatePK=a.AbsenceDate and

s.StudentID=3400

group by s.StudentID,s.StudentName,f.FacilityName,st.StaffFirstName,d.SchoolMonthName;

2.Discipline model

1. List disciplinary events with the disciplinary action taken against a student with description and dates.

**select s.studentid,s.studentname,f.eventdate,e.disciplineeventdesc,a.disciplineactiondesc**

**from dimstudent s,factdiscipline f,dimdisciplineeventcode e,dimDisciplineActionCode a**

**where s.StudentID=f.StudentID and**

**f.DisciplineActionCodeID=a.DisciplineActionCodeID**

**and f.DisciplineEventCodeID=e.DisciplineEventCodeID**

**and f.SISStudentID=711;**

3.SpecialProgram

List special programs, staff offering that program and address of facility where program is offered.

select distinct p.Program,s.StaffName,f.Facility,f.Address,t.StudentName from

dimSpecialProgram p,dimStaff s,dimFacility f, factSpecialProgram as sp,dimStudent t where p.ProgramID=sp.ProgramID and

f.FacilityID=t.FacilityID and

sp.SISStudentID=t.SISStudentID and

t.HomeroomStaffID=s.StaffID and sp.SISStudentID=32;

4.Academic performance

Details of HSGT scaled score and possible scaled score of a student for a particular subject and course.

select distinct h.ScaledScore,h.PossibleScaledScore,t.StudentName from factHSGTScore h,dimSubject s, dimCourse c,dimStudent t

where t.StudentID=h.StudentID and

h.SubjectID=s.SubjectID and

s.SubjectID=c.SubjectID and

c.SubjectID=9 and c.CourseTitle='10TH LIT/COMP A'

and h.StudentID=3480;