**Admin Perspective**

* **Discipline**

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;

2. List the time difference between the disciplinary event taking place and the action date for each disciplinary event.

create view vw\_actiondate as select \* from dimDate;

create view vw\_ eventdate1 as select \* from dimDate;

select avg(DATEDIFF(day,f.EventDate,f.ActionDate)) ResponseDelay\_NoOfdays,

Convert(varchar(30),e.year,102) Eventdate,de.DisciplineEventDesc,da.DisciplineActionDesc from

factDiscipline f,vw\_eventdate1 e,vw\_actiondate a,dimDisciplineActionCode da,dimDisciplineEventCode de

where f.ActionDate=a.DatePK and

f.EventDate=e.datepk and

f.DisciplineActionCodeID=da.DisciplineActionCodeID and

f.DisciplineEventCodeID=de.DisciplineEventCodeID

group by

e.year,f.ActionDate,f.EventDate,de.DisciplineEventDesc,da.DisciplineActionDesc;

3. Details of facility where maximum number of disciplinary events have taken place.

select top 1 count(f.DisciplineID) MaxCountOfDisciplineevents,d.FacilityID,d.Address,d.FacilityName,d.FacilityType,d.City from factDiscipline f,dimFacility d

where f.EventFacilityID=d.FacilityID

group by d.FacilityID,d.Address,d.FacilityName,d.FacilityType,d.City;

4. List count of students involved in Aggressive behavior disciplinary events and the action taken against these on a yearly basis.

select Count(f.studentid) Studentcount,e.disciplineeventdesc,a.disciplineactiondesc,YEAR(d.Year) year from factDiscipline f,dimdate d,dimdisciplineeventcode e,dimDisciplineActionCode a

where

f.DisciplineEventCodeID=e.DisciplineEventCodeID and

f.DisciplineActionCodeID=a.DisciplineActionCodeID and

f.EventDate=d.DatePK and

e.DisciplineEventDesc in ('AGGRESSIVE BEHAVIOR')

group by YEAR(d.Year),e.disciplineeventdesc,a.disciplineactiondesc;

5. List total number of events and event year for which legal actions have been taken against the school in a year.

select Count(f.DisciplineID) Eventcount,e.disciplineeventdesc,a.disciplineactiondesc,YEAR(d.Year) year from factDiscipline f,dimdate d,dimdisciplineeventcode e,dimDisciplineActionCode a

where

f.DisciplineEventCodeID=e.DisciplineEventCodeID and

f.DisciplineActionCodeID=a.DisciplineActionCodeID and

f.EventDate=d.DatePK and

a.DisciplineActionDesc in ('JUVENILE OR COURT REFERRAL')

group by YEAR(d.Year),e.disciplineeventdesc,a.disciplineactiondesc;

* **Special Programs**

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;

1. Total number of students enrolled in special programs in a year.

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

dimDate as t

where

f.EntryDate=t.DatePK and

t.YearName='Calendar 2009'

group by t.YearName;

ALTERNATE

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

dimDate as t

where

f.EntryDate=t.DatePK

group by t.YearName;

1. Retrieve the program with the maximum number of students in a year.

select TOP 1 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 order by count(f.SISStudentID) DESC

* **Absence**

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;

1. For each facility fetch total number of students who were absent in class for a particular quarter.

select f.Facility, count(a.StudentID) as TotalStudents,d.QuarterOfYear from dimFacility as f,

dimStaff as t,factAbsence as a, dimDate as d

where t.StaffID=a.StaffID

and a.FacilityID=t.PrimaryFacilityID

and d.DatePK=a.AbsenceDate

and QuarterOfYear=1

group by f.Facility,d.QuarterOfYear;

(\*\* To check number of students absent in a facility overall)

select count(a.StudentID) as TotalStudents, f.Facility from factAbsence as a,dimFacility as f,

dimStaff as t

where

t.StaffID=a.StaffID

and a.FacilityID=t.PrimaryFacilityID

group by f.Facility;)

1. List total number of students who were absent for each special program in a year.

select count(s.SISStudentID) as TotalStudents,p.Program,r.YearName from factSpecialProgram as s,

dimSpecialProgram as p,factAbsence as a,dimDate as r

where s.SISStudentID=a.SISStudentID

and s.SpecialProgramID=p.ProgramID

and r.DatePK=a.AbsenceDate

group by p.Program,r.YearName;

1. List total number of students who were suspended in a year.

select distinct count(a.StudentID) as Total,d.YearName,c.AbsenceCodeDesc from factAbsence as a,

dimAbsenceCode c,dimDate as d

where a.AbsenceCodeID=c.AbsenceCodeID and

d.DatePK=a.AbsenceDate and

c.AbsenceCodeDesc IN ('OUT OF SCHOOL SUSPENSION','IN SCHOOL SUSPENSION')

group by c.AbsenceCodeDesc,d.YearName

(\* To check total with particular absence code)

select count(AbsenceCodeId) from factAbsence where AbsenceCodeID=16;

* **Academic Performance**

1. List of all teachers where students have a numeric grade equals to 100.

select distinct s.StaffName from dbo.dimStaff s,dbo.dimStudent st, dbo.factStudentCourseGrade scg, dbo.factStudentCourse sc

WHERE st.studentID= sc.StudentID

AND sc.StaffID= s.StaffID

AND sc.StudentCourseID = scg.StudentCourseID

AND scg.NumericGrade=100

1. Identify the domain for which the academic performance of the students is above the alpha numeric grade is above 3. (Number of students who scored above the domain raw score)

select distinct std.StandardizedTestDomain

from dbo.factStudentCourseGrade scg,dbo.factStudentCourse sc,dbo.dimCourse c,dbo.dimStandardizedTestDomain std

where sc.StudentCourseID = scg.StudentCourseID

AND c.CourseID = sc.CourseID

AND std.SubjectID = c.SubjectID

AND scg.AlphaNumericGrade=4

1. Courses 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