**SQL Queries:**

1. **Total number of regular students in the school:**

select count(s.studentID) as RegularStudents

from [dbo].[dimEnrollmentCode] as e

join dbo.dimStudent as s

on e.EnrollmentCodeID = s.EnrollmentCodeID

where e.EnrollmentCodeID = 1;

1. **Number of students who were regular students and withdraw**:

select count(ds.StudentID) as NumberOfWithdrawnRegular

from

[dbo].[dimWithdrawalCode] a

join dbo.dimStudent ds

on a.WithDrawalCodeID=ds.WithDrawalCodeID

where ds.WithDrawalCodeID=1;

1. **To Query various reasons for withdrawal and count of students against each withdrawal reason:**

select count(ds.StudentID) as NumberOfWithdrawnRegular,

a.WithdrawalCodeID, a.WithdrawalCodeDesc

from [dbo].[dimWithdrawalCode] as a

join dbo.dimStudent ds

on a.WithDrawalCodeID=ds.WithDrawalCodeID

group by a.WithdrawalCodeID,a.WithdrawalCodeDesc;

1. **Absences in the class for some unaccountable reasons. This can be queried as :**

To analyze complete details for absences:-

select \* from dbo.factAbsence;

select count(ds.studentID) as NumberOfStudentsUnaccountableAbsence

from [dbo].[factAbsence] fa

join [dbo].[dimStudent] ds

on fa.StudentID=ds.StudentID

where AbsenceCodeID=22;

1. **Check the Absence Count of all students and order them in descending order to determine students with maximum absences.**

select studentID,sum(fa.AbsenceCount) Students

from [dbo].[factAbsence] as fa

group by studentID

order by sum(fa.AbsenceCount) desc;

1. **Count of students against each absence code,**

select ac.AbsenceCodeDesc,count(distinct fa.studentid) as Students

from dbo.dimAbsenceCode as ac

join dbo.factAbsence fa

on fa.AbsenceCodeID = ac.AbsenceCodeID

group by ac.AbsenceCodeDesc

order by count(fa.studentid)desc;

1. **We need to know Overall students count for various discipline events, This is helpful to know for what Discipline events there are no students.(student count is zero)**

Select dec.DisciplineEventCodeID,dec.DisciplineEventDesc,

count(fd.StudentID) as Students

from [dbo].[dimDisciplineEventCode] dec

full outer join [dbo].[factDiscipline] as fd

on fd.DisciplineEventCodeID = dec.DisciplineEventCodeID

group by dec.DisciplineEventCodeID,dec.DisciplineEventDesc;

1. **To check the number of students against a particular Discipline event, for example: Determine the Number of Students with Aggressive behavior(Discipline behavior),**

select count(ds.StudentID) as NumberOf AggressivebehaviorStudents from dbo.factDiscipline dc

join dbo.dimStudent ds

on dc.StudentID=ds.StudentID

where DisciplineEventCodeID=69;

1. **For the student who has been accounted for violating any discipline rule in the school , what action has been taken against the student?**

For example, for a particular student 11 we can check as:

Select fd.StudentID, fd.DisciplineEventCodeID,

de.DisciplineEventDesc, fd.DisciplineActionCodeID,

da.DisciplineActionDesc, fd.EventDate, fd.ActionDate

from [dbo].[factDiscipline] as fd

join [dbo].[dimDisciplineEventCode] as de

on de.DisciplineEventCodeID = fd.DisciplineEventCodeID

join [dbo].[dimDisciplineActionCode] as da

on da.DisciplineActionCodeID = fd.DisciplineActionCodeID

where StudentID=11;

1. **To keep record of the tests conducted and student’s performance against each test.**

select \* from [dbo].[factHSGTScore];

select \* from [dbo].[factStandardizedTestScore]

**To record students grades against each course:**

select \* from [dbo].[factStudentCourseGrade]

**To determine top students of the class?(count of students with numeric grade of 100)**

select count(distinct sc.studentID) studentID

from [dbo].[factStudentCourseGrade] as scg

join [dbo].[factStudentCourse] as sc

on sc.StudentCourseID=scg.StudentCourseID

where NumericGrade = 100.00

1. **Number of students with performance level 3 in a particular subject(academic performance)**

select count(ds.studentID) Students

from [dbo].[factStandardizedTestScore] as ts

join dbo.dimStudent ds

on ts.StudentID=ds.StudentID

where PerformanceLevel=3 and ts.SubjectID=18;

1. **Determine students with performance level 3:**

select distinct StudentID

from [dbo].factStandardizedTestScore

where PerformanceLevel = 3

1. **How many students are there in each special program offered by the School. This will be helpful to bring more programs in the school looking at the count of students currently enrolled. This can be queried as :**

select sp.programID,sp.Program, count(fsp.StudentID) as Students

from [dbo].[factSpecialProgram] as fsp

join [dbo].[dimSpecialProgram] as sp

on sp.ProgramID = fsp.ProgramID

group by sp.ProgramID,sp.Program

1. **Total number of students in each course**

select count(fsc.studentid) Students,c.CourseID, c.CourseTitle

from [dbo].[factStudentCourse] as fsc

join [dbo].[dimCourse] as c on c.CourseID = fsc.CourseID

group by c.CourseID, c.CourseTitle,fsc.FacilityID

1. **What all courses student is enrolled in the school?**

For example, to check for a student with ID 12.

select \*

from [dbo].[factStudentCourse]

where StudentID=12;

1. **Grades of student in the courses they are enrolled in?**

**For example, we can query for student with studentID 12 as:**

Select \*

from

[dbo].[factStudentCourseGrade] as c join

[dbo].[factStudentCourse] as sc

On c.StudentCourseID=sc.StudentCourseID

Where sc.studentID = 12;

1. **Check Student performance in each subject:**

**For example: for student with ID 12:**

select \*

from [dbo].[factStandardizedTestScore]

where StudentID=12

1. **School KPIs regarding Target Student Attendance, Target Enrollment count and its concerned facility.**

select sk.SchoolKPIID,sk.EffectiveDate, sk.TargetEnrollmentCount,sk.TargetStandardizedTestScaledScore,

f.facility, sk.TargetEnrollmentCount

from [dbo].[factSchoolKPI] as sk

join [dbo].[dimFacility] as f

on f.FacilityID = sk.FacilityID

1. **Determine count of students according to ethnicity code:**

select count(distinct studentId)Students,Ethnicity

from dbo.dimStudent

group by Ethnicity;

1. **To determine count of male and female students, so as to identify ratio:**

select count(distinct studentId) as Students, MaritalStatus

from dbo.dimStudent

group by MaritalStatus;

1. **Determine count of students who are national schlolar.**

select count(distinct studentId) as Students

from dbo.dimStudent

where NationalAchieveScholar = 'Y';