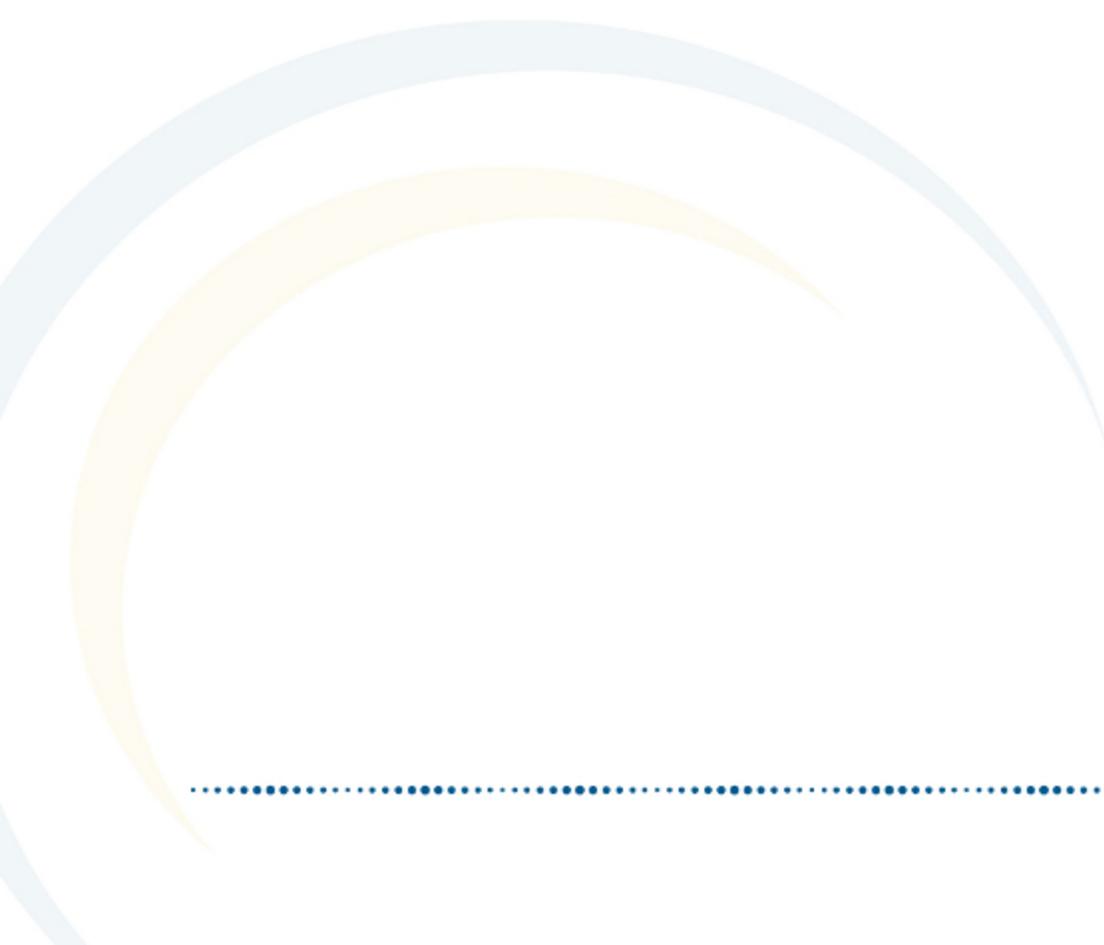


Data Analysis

January 2012



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Data Analysis

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i Data Analysis replaced Cube Designer in the [E.1035 Release Pack \(August 2010\)](#). See a [Feature Comparison between Data Analysis and Cube Designer](#).

Overview

PATH: *Ad hoc Reporting > Data Analysis*

The Data Analysis tool analyzes Campus data and allows users to measure student progress as well as understand and visually present school, district and state-wide performance data. This tool allows users to cross reference student information by dimension and produce visual results of this data in an easy to understand format.

For example, a list of students who have a specific race/ethnicity can be selected and cross-referenced with those students' attendance records, behavior incidents and semester grades. This data can then be visually produced on a grid, bar chart, line chart or pie chart, facilitating comparison and analysis.

! This tool requires the Adobe Flash Player. Users are encouraged to run this tool within the Firefox web browser.

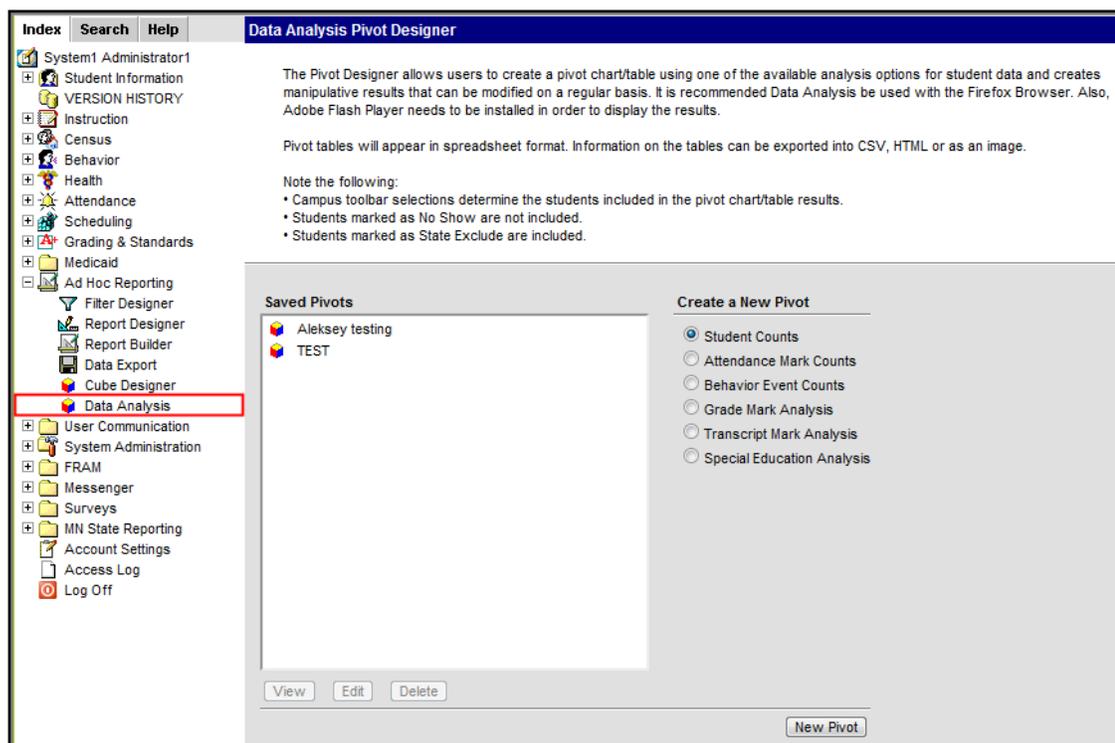


Image 1: Data Analysis

Data Analysis uses pivot table functionality. A pivot table is a data summarization tool often found in spreadsheets and other business intelligence software. Pivot table tools can sort, count and total the data stored in one table or spreadsheet and then displays the data in a new table.

Data Analysis Options

The following information provides descriptions on available fields, selections and logic used in Data Analysis.

Pivot Options

Users can create different pivots depending on the desired outcome. The table below describes each available count or analysis type.

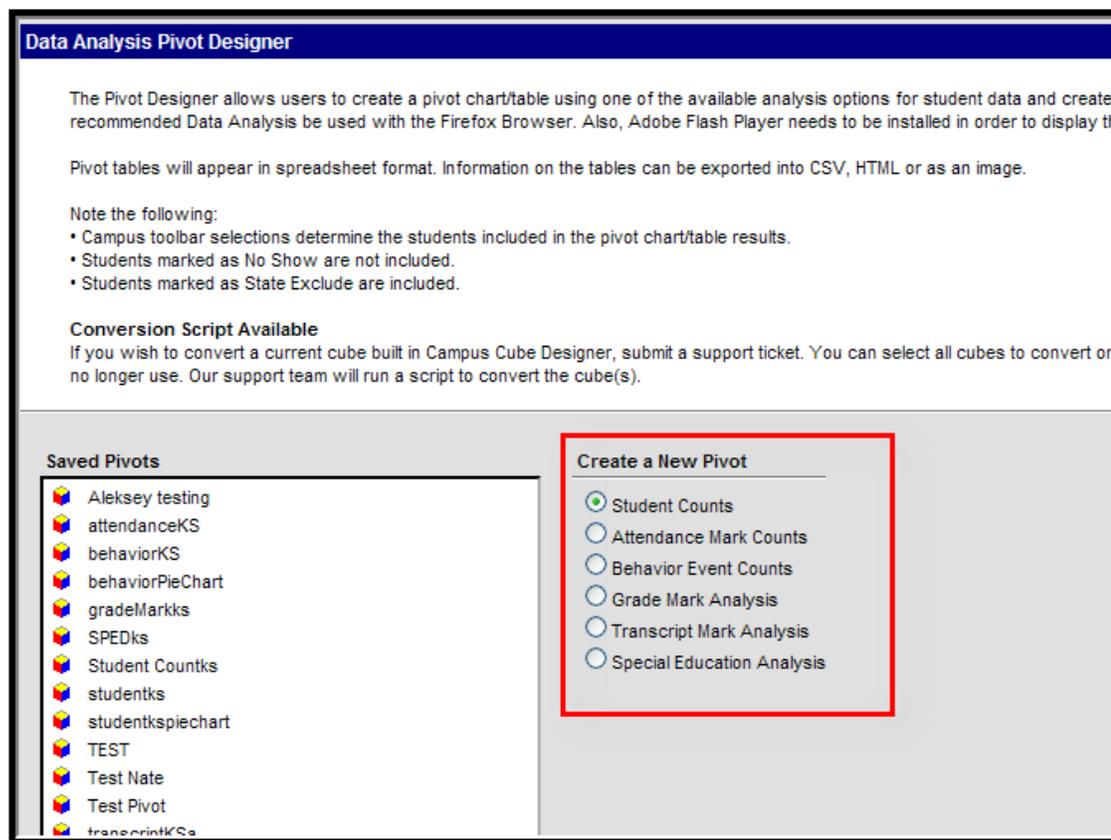


Image 2: Data Analysis Pivot Type Options

Measure	Description
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<p>Student Counts</p>	<p>Bases information on total number of students enrolled.</p> <ul style="list-style-type: none"> • No show students are not included. • Students marked as State Exclude are included. • Count of Students is the default Measure on the field list.
<p>Attendance Mark Counts</p>	<p>Bases information on students' attendance records.</p> <ul style="list-style-type: none"> • Students must be on a roster in order to report. • Students must have at least one attendance event. • Each attendance event displays as one count. • No show students are not included. • Students marked as State Exclude are included. • Sum of Period Absences is the default Measure on the field list.
<p>Behavior Event Counts</p>	<p>Bases information on students' behavior records.</p> <ul style="list-style-type: none"> • Each behavior event displays as one count. • No Show students are included. • Students marked as State Exclude are included. • Count of Behavior Events is the default Measure on the field list.
<p>Grade Mark Counts</p>	<p>Bases information on the Total Number of Students Enrolled + GPA + Credits Earned</p> <ul style="list-style-type: none"> • GPA is based on the student's Grades tab. • Credits Earned is based on the student's Transcript tab. • Each credit earned displays as one count. • No Show students are included. • Students marked as State Exclude are included. • Count of Grades, Sum of Credits Earned and Weighted Term GPA are the default Measures on the field list.
<p>Transcript Mark Counts</p>	<p>Bases information on students' transcripts.</p> <ul style="list-style-type: none"> • Only students who have transcript credits on the Transcript tab are included. • Each posted transcript credit on a student's Transcript tab displays as one count. • No Show students are included. • Students marked as State Exclude are included. • Count of Transcript Records, Sum of Credits Earned and Transcript GPA are the default Measures on the field list.

<p>Special Education Analysis</p>	<p>Bases information on students who have a special education record.</p> <ul style="list-style-type: none"> • Students must have a locked IEP in order to report. • No Show students are included. • Students marked as State Exclude are included. • Count of Special Education students is the default Measure on the field list.
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Saved pivots will appear in the Saved Pivots section. Users can view, edit or delete these pivots as needed.

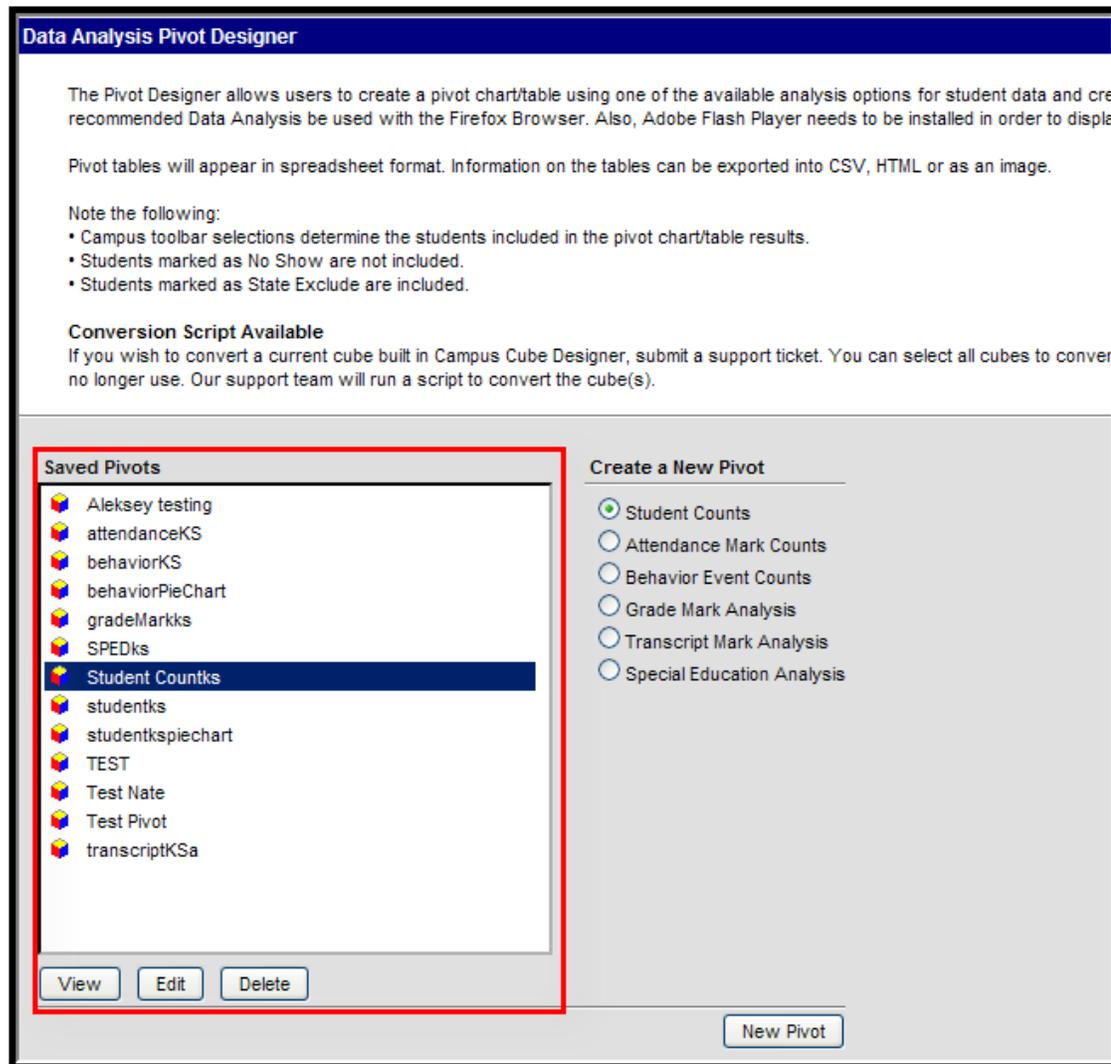


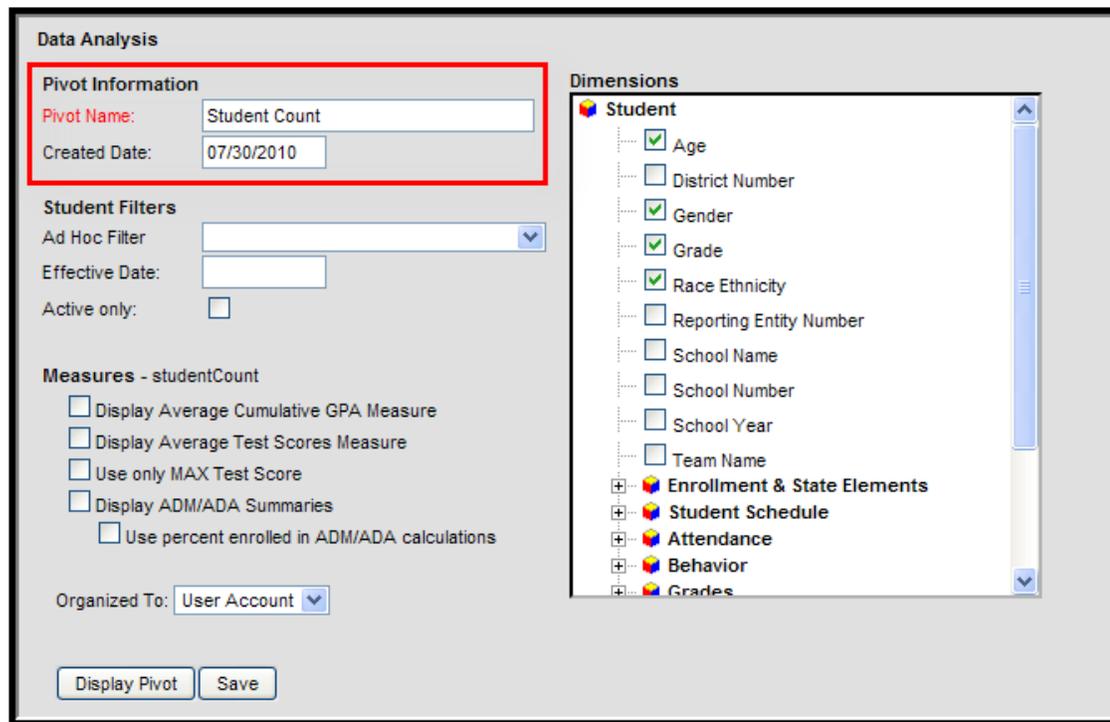
Image 3: Data Analysis - Saved Pivots

Data Analysis Pivot Details

After selecting the desired pivot type, users can enter additional pivot information, select particular students and choose certain measures that will further analyze the data.

Pivot Information

Pivot Information fields identify the pivot on a high level. A **Pivot Name** is required for all pivots. The **Created Date** indicates when the pivot was first created.



The screenshot shows the 'Data Analysis' interface. The 'Pivot Information' section is highlighted with a red box and contains the following fields:

- Pivot Name:** Student Count
- Created Date:** 07/30/2010

Other sections visible in the interface include:

- Student Filters:** Ad Hoc Filter (dropdown), Effective Date (text input), Active only (checkbox).
- Measures - studentCount:** Display Average Cumulative GPA Measure, Display Average Test Scores Measure, Use only MAX Test Score, Display ADM/ADA Summaries (with sub-option Use percent enrolled in ADM/ADA calculations).
- Organized To:** User Account (dropdown).
- Dimensions:** A list of dimensions with checkboxes, including Age, Gender, Grade, Race Ethnicity, and Enrollment & State Elements.
- Buttons:** Display Pivot and Save.

Image 4: Pivot Information Fields

Student Filters

Users can select an **Ad hoc Filter** that contains specific students on which to base the pivot table. This will narrow the data set used. Users can enter an **Effective Date** to use, which will include students who are actively enrolled as of the entered date. Marking the **Active Only** checkbox will force the pivot to only return students who are currently enrolled as of the effective date.

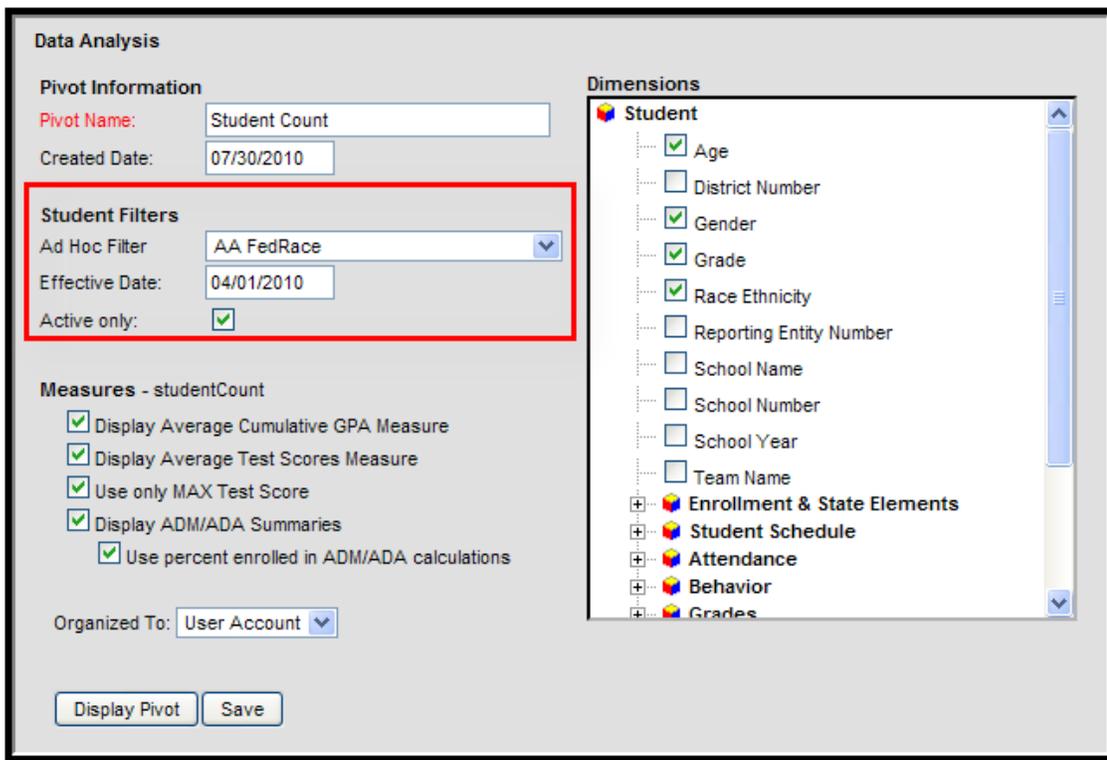


Image 5: Student Filter Fields

Measures

Select the desired measures for the pivot table. These options vary based on the type of pivot selected. The following is a list of Available Measures and corresponding Pivot Types.

Available Measure	Description	Pivot Type
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<p>Display Average Cumulative GPA Measure</p>	<p>The pivot displays the Average Cumulative GPA for all reported students. If selected, the view v_CumGPA is used to generate results.</p>	<ul style="list-style-type: none"> • Student Counts • Attendance Mark Counts • Behavior Event Counts • Grade Mark Analysis • Transcript Mark Analysis • Special Education Analysis
<p>Display Average Test Scores Measure</p>	<p>The pivot will display students' average test scores.</p>	<ul style="list-style-type: none"> • Student Counts • Attendance Mark Counts • Behavior Counts • Grade Mark Analysis • Transcript Mark Analysis • Special Education Analysis

<p>Use only MAX Test Score</p>	<p>The pivot will display students' highest test score.</p>	<ul style="list-style-type: none"> • Student Counts • Attendance Mark Counts • Behavior Event Counts • Grade Mark Analysis • Transcript Mark Analysis • Special Education Analysis
<p>Display ADM/ADA Summaries</p>	<p>The pivot will display students' Average Daily Membership (ADM) and Average Daily Attendance (ADA).</p>	<p>Student Counts</p>
<p>Use percent enrolled in ADM/ADA calculations</p>	<p>This field determines which views are used for calculating ADM/ADA and whether or not Percent Enrolled is taken into account.</p> <p>If Percent Enrolled is selected, the following views are used:</p> <ul style="list-style-type: none"> • v_MembershipAttendanceEnrollmentDetailPercent • v_MembershipAttendanceDetailPercent <p>If Percent Enrolled is not selected, the following views are used:</p> <ul style="list-style-type: none"> • v_MembershipAttendanceEnrollmentDetail • v_MembershipAttendanceDetail Student Counts 	<p>Student Count</p>

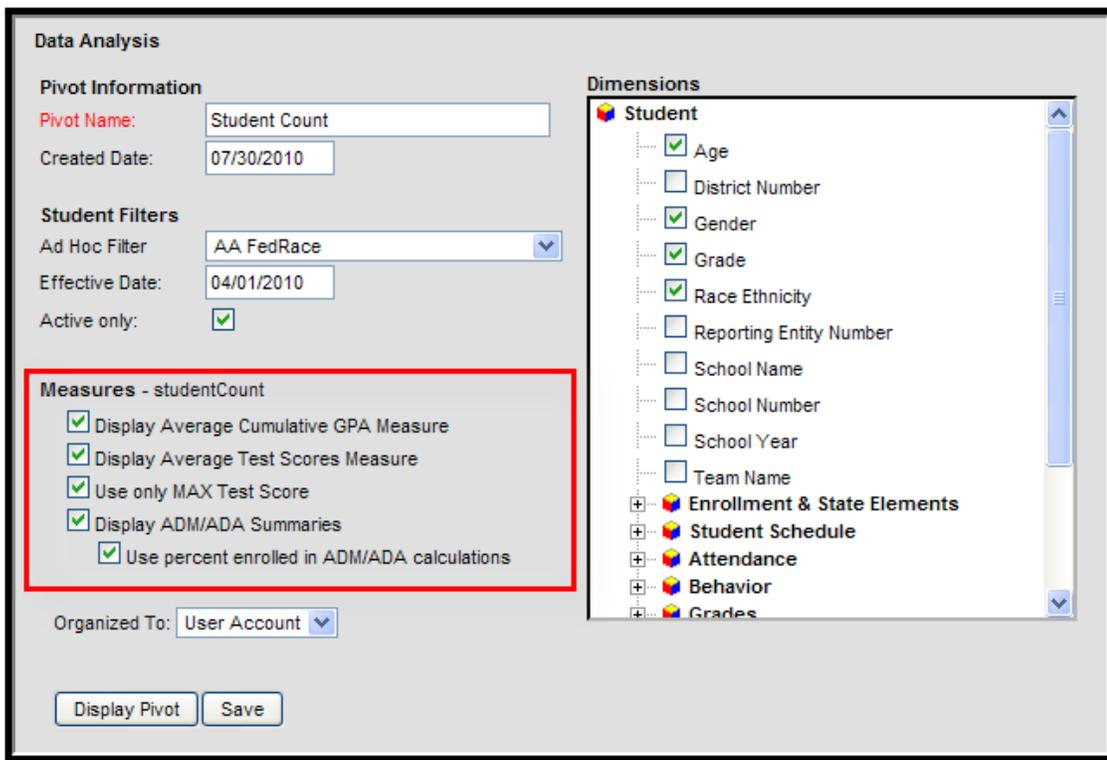


Image 6: Pivot Measures

Organized To

This selection indicates which user groups are allowed access to the pivot from the Saved Pivots list.

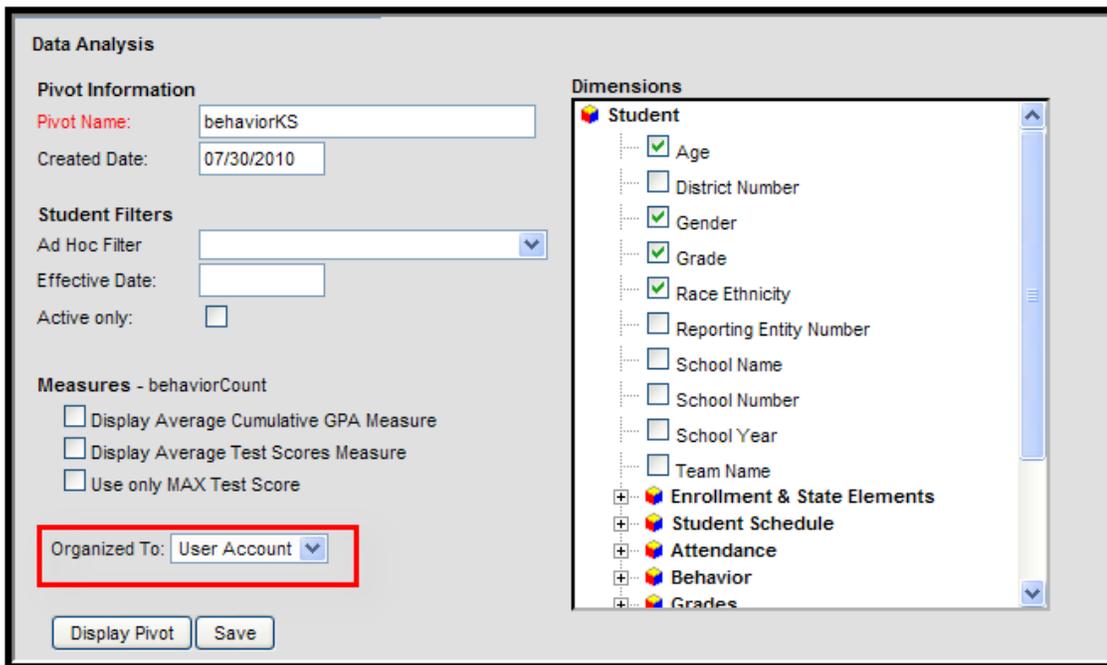
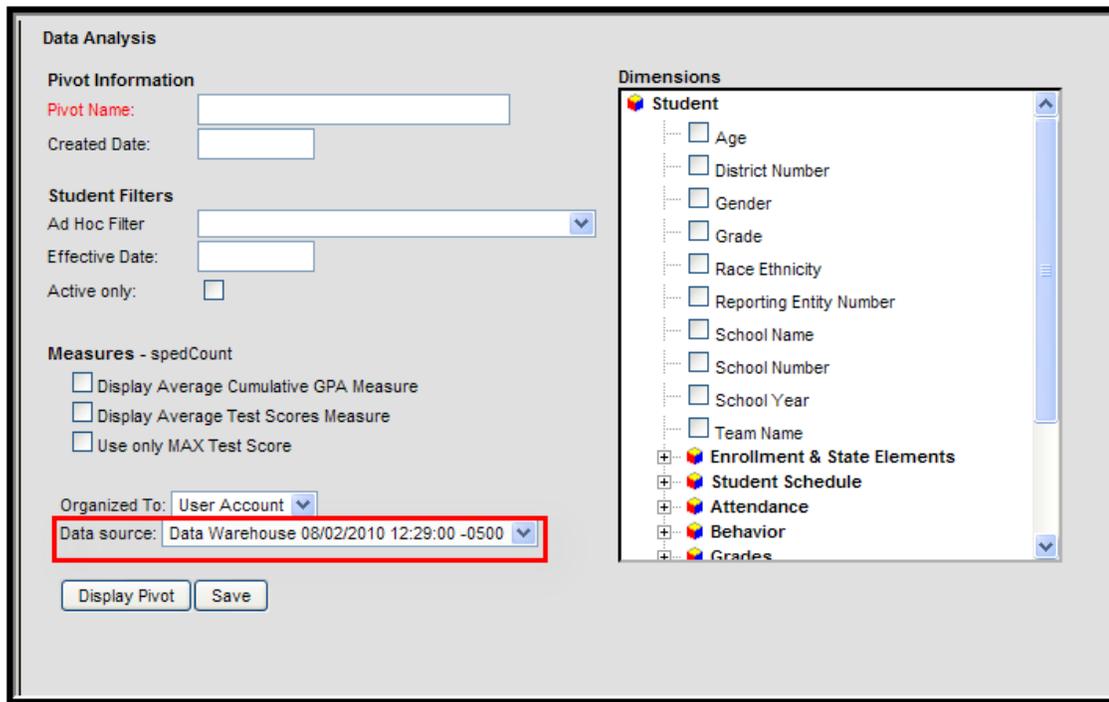


Image 7: Organized To

Data Source

The Data Source selection determines which database is used when pulling pivot information.

 This option is only available to customers who have [Data Warehouse Settings](#) properly configured.



The screenshot shows the 'Data Analysis' interface. On the left, there are sections for 'Pivot Information', 'Student Filters', and 'Measures - spedCount'. The 'Data source:' dropdown is highlighted with a red box and contains the text 'Data Warehouse 08/02/2010 12:29:00 -0500'. On the right, the 'Dimensions' section is expanded to show a list of fields under the 'Student' category, including Age, District Number, Gender, Grade, Race Ethnicity, Reporting Entity Number, School Name, School Number, School Year, Team Name, Enrollment & State Elements, Student Schedule, Attendance, Behavior, and Grades.

Image 8: Data Warehouse

Data Analysis Dimensions

Dimensions allow users to designate specific data elements that are pulled into the pivot table. Users must select at least two dimensions to use in the pivot. These fields are available within the user interface throughout Campus. Select dimensions by marking the checkbox next to the desired field.

 If **All Years** and **All Schools** are selected in the Campus toolbar, the **School Name** and **School Year** elements must be selected in order for the pivot to display correct data.

 Data Analysis uses database views to more efficiently pull data into pivots. These views are listed with the corresponding dimension in the tables following.

The following tables describe all available dimensions within Data Analysis. The first column lists the field-level data elements available when creating a pivot. The second column defines the data elements and

provides their location within Infinite Campus.

 Only dimensions available to all districts are listed. State-specific or Reporting Entity-specific fields are not included.

 Student enrollment pivots within the [Data Analysis](#) tool will report data from historical LEP fields and not from new LEP fields.

Student

View: cube_student

Element	Mapping and Definition
Age	<i>Census > People > Demographics</i> This option displays the selected students' ages, based on the entered birth date.
District Number	<i>System Administration > Resources > District Information</i> This is the state-assigned district number of the student's enrollment record.
Gender	<i>Census > People > Demographics</i> This element is listed as either Male (M) or Female (F).
Grade	<i>Student Information > General > Enrollments</i> <i>Census > People > Enrollments</i> This is the student's grade level of enrollment. This grade level is generated from the student's enrollment record for the selected school year.
Race Ethnicity	<i>Census > People > Demographics</i> There are six standard categories of race/ethnicity: American Indian/Alaskan Native, Asian/Pacific Islander, Hispanic, Black (Not Hispanic) and White (Not Hispanic).
Reporting Entity Number	<i>System Administration > Resources > School</i> This is the district- or state-assigned school number of the student's enrollment information.
School Name	<i>Student Information > General > Enrollments</i> (limited to school currently selected in Campus Toolbar unless All Schools is selected) This is the name of the school in which the student is enrolled.
School Number	<i>System Administration > Resources > School</i> This is the district- or state-assigned school number of the student's enrollment information.

School Year	<p><i>Student Information > General > Enrollments</i> (limited to year currently selected in Campus Toolbar unless All Years is selected) This is the year of enrollment. This information comes from the calendar and the student’s enrollment record.</p>
Team Name	<p><i>Student Information > General > Schedule > Walk-in Scheduler</i> This is the team a student is assigned to for scheduling purposes. If the student is assigned to a team, the team name will display in a dropdown list of the Walk-in Scheduler.</p>

Enrollment and State Elements

View: cube_enrollment

Student Information > General > Enrollments

These elements are displayed on the General Enrollment and State Reporting Enrollment editors; they are used in several reports throughout Campus and in state reporting extracts. Many elements are renamed to aid in state reporting. For example, the field language may be renamed as Language Background. Meal Status information is now reported from the Eligibility too found in the Food Service view.

 Available dimensions vary by state.

Student Schedule

View: cube_roster

Element	Mapping and Definition
Course/Section	<p><i>Scheduling > Courses</i> <i>Scheduling > Courses > Sections</i> This option lists the course name and number, as well as the section number and period meeting time.</p>
Department	<p><i>Scheduling > Courses</i> The department is a sorting feature that can be assigned to the course. When used in the pivot, the name of the department will appear and can be used to sort departments by the course.</p>
Secondary Teacher Name	<p><i>Scheduling > Courses > Sections</i> Name of an additional teacher assigned to the course section.</p>

Section Period Name	<i>Scheduling > Courses > Sections</i> The section period name lists the period in which the section meets.
Section Term Name	<i>Scheduling > Courses > Sections</i> The section term name lists the term in which the section meets.
Teacher Name	<i>Scheduling > Courses > Sections</i> Name of the teacher assigned to teach the course section.
Teacher's Education Level	<i>Census > People > District Employment</i> The code associated with a teacher's education level (e.g. 5 for a Bachelor's degree, 2 for a Doctorate degree).
Teacher's Gender	<i>Census > People</i> The gender of the teacher.
Teacher's Race/Ethnicity	<i>Census > People</i> The code associated with the race/ethnicity of the teacher.
Teacher's Seniority	<i>Census > People > District Employment</i> The code associated with the seniority level of the teacher (e.g., T for tenure, 1 for 1st year).

Attendance

View: cube_attendance

 If Student Counts is selected when a new pivot is built, SQL creates an INNER JOIN between two views. This means student counts will only reflect the students who have attendance records.

Element	Mapping and Definition
Attendance Course /Section	<i>Student Information > General > Attendance</i> <i>Scheduling > Courses > Section</i> The attendance course/section lists the course numbers, names and sections associated with attendance events. If attendance entries were recorded for 0012 English Sections 1 and 3, the pivot can display 0012 English with attendance events broken down into sections 1 and 3, and the total number of attendance events for all sections of the course.
Attendance Period Name	<i>Student Information > General > Attendance</i> <i>System Administration > Calendar > Calendar > Periods</i> The attendance period name lists the name of the periods, as labeled in the school calendar.
Attendance Teacher Name	<i>Student Information > General > Attendance</i> <i>Scheduling > Courses > Section</i> This field lists the Display Name of the teacher that recorded the attendance. Most often, this will be the teacher of the section.

Attendance Term Name	<p><i>Student Information > General > Attendance</i> <i>System Administration > Calendar > Calendar > Terms</i></p> <p>The attendance term name lists the name of the terms, as labeled in the school calendar.</p>
Course Department	<p><i>Student Information > General > Attendance</i> <i>Scheduling > Courses</i></p> <p>The department is a sorting feature that can be assigned to the course. When this is used in Data Analysis, the name of the department will appear and can be used to sort departments by the course.</p>
Excuse Reason	<p><i>Student Information > General > Attendance</i> <i>System Administration > Attendance > Attendance Codes</i></p> <p>The reason attached to an attendance event (e.g., illness, denied busing, parent excuse). These codes are created in the System Administration area.</p>
Excuse Type	<p><i>Student Information > General > Attendance</i> <i>System Administration > Attendance > Attendance Codes</i></p> <p>The excuse is attached to the attendance status (e.g., excused, unknown).</p>
Status	<p><i>Student Information > General > Attendance</i> <i>System Administration > Attendance > Attendance Codes</i></p> <p>This is an attendance status (e.g., tardy, early release).</p>

Behavior

View: cube_behavior

Element	Mapping and Definition
Event	<p><i>Student Information > General > Behavior</i> <i>System Administration > Behavior > Event Types</i></p> <p>Behavior event types are setup in the System Administration module and are used when recording student behavior incidents.</p>
Event Code	<p><i>Student Information > General > Behavior</i> <i>System Administration > Behavior > Event Types</i></p> <p>Event codes are used in state reporting for certain states. If a code is created in System Administration, the pivot will display with that code for student behavior events.</p>
Referring Staff	<p><i>Student Information > General > Behavior</i> <i>Census > Person</i></p> <p>This field reports the name of the school employee that recorded the behavior event.</p>
Regional Event Code	<p><i>Student Information > General > Behavior</i></p> <p>This is the district's code used for the event that may differ from the state code.</p>
Regional Res Code	<p><i>Student Information > General > Behavior</i></p> <p>This is the district's code used for the resolution that may differ from the state code.</p>

Resolution	<p><i>Student Information > General > Behavior</i> <i>System Administration > Behavior > Resolution Types</i></p> <p>For each behavior event, a resolution can also be entered. The list of resolutions is setup in the System Administration module. In Data Analysis, the resolution will be listed as the type of resolution assigned to a student's behavior event.</p>
Resolution Code	<p><i>Student Information > General > Behavior</i> <i>System Administration > Behavior > Resolution Types</i></p> <p>Resolution codes are used in state reporting for certain states. The resolution code is created in System Administration. If this code is used, information in the pivot will display with that code for student behavior resolutions.</p>
Role	<p><i>Student Information > General > Behavior</i></p> <p>A student's behavior role is assigned to a behavior event and lists the student's participation in that event (e.g., Offender, Participant, Victim).</p>
Weapon Code	<p><i>Student Information > General > Behavior</i></p> <p>This field is also used in state reporting. On the pivot, this code is associated with a weapon used in a behavior event.</p>

Grades

View: cube_grades

Element	Mapping and Definition
Grade Course/Section	<p><i>Student Information > General > Grades</i> <i>Scheduling > Courses</i></p> <p>This option lists the course name of the course section into which the student is scheduled.</p>
Grade Credit Group	<p><i>Student Information > General > Grades</i> <i>Scheduling > Courses > Grading Tasks</i> <i>Grading & Standards > Credit Groups</i></p> <p>A credit group is a category of credits that a student earns based on completion of grading tasks or achieving a certain level of scores.</p>
Grade Credit Type	<p><i>Student Information > General > Grades</i> <i>Scheduling > Courses > Grading Tasks</i> <i>Grading & Standards > Credit Groups</i></p> <p>Credit types are the categories in a Credit Group (e.g., English, History).</p>
Grade Period Name	<p><i>Student Information > General > Grades</i> <i>System Administration > Calendar > Calendar > Periods</i></p> <p>The grade period name lists the name of the period, as labeled in the school calendar.</p>

Grade Score	<p><i>Student Information > General > Grades</i> <i>Grading & Standards > Score Groups & Rubrics</i></p> <p>This is the letter grade or percentage grade a student has earned for a grading task.</p>
Grade Term Name	<p><i>Student Information > General > Grades</i> <i>System Administration > Calendar > Calendar > Terms</i></p> <p>The grade term name lists the name of the terms, as labeled in the school calendar.</p>
Task Name	<p><i>Student Information > General > Grades</i> <i>Scheduling > Courses > Grading Tasks</i></p> <p>This is the name of the task that is being graded.</p>
Teacher	<p><i>Student Information > General > Grades</i> <i>Scheduling > Courses > Section</i></p> <p>The teacher field lists the Display Name of teacher selected to teach that section.</p>

Transcript

View: cube_transcript

Element	Mapping and Definition
Course Name	<p><i>Student Information > General > Transcript</i> <i>Scheduling > Courses</i></p> <p>This option lists the name of the course that appears on the student's transcript. It comes from the transcript record or, when the transcript is posted, the student's schedule.</p>
Grade Taken	<p><i>Student Information > General > Transcript</i> <i>Student Information > General > Enrollments</i></p> <p>This is the student's grade of enrollment (10, 11, 12, etc.) at the time he/she attempted and/or completed the transcript course.</p>
State Standard	<p><i>Student Information > General > Transcript</i> <i>Scheduling > Grading & Standards > Standards Bank</i></p> <p>If the transcript entry is associated with a grading standard, it will be listed in this area.</p>
Transcript Credit Type	<p><i>Student Information > General > Transcript</i> <i>Scheduling > Courses > Grading Tasks</i> <i>Grading & Standards > Credit Groups</i></p> <p>Credit types are the categories in a Credit Group (e.g., English, History).</p>
Transcript Credit Group	<p><i>Grading & Standards > Credit Groups</i></p> <p>This is the categories of course credits used to organize courses and graduation requirements.</p>
Transcript Mark Year	<p><i>Student Information > General > Transcript</i> <i>System Administration > Calendar > Calendar > School Years</i></p> <p>This is the school year the course was completed. If a course was completed in the 2003-2004 school year, the field would report as 2003-2004.</p>

Transcript Score	<p><i>Student Information > General > Transcript Grading & Standards > Score Groups & Rubrics</i></p> <p>This is the letter grade or percentage grade a student has earned for a course.</p>
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Health Visits

View: v_HealthVisitDetail

Element	Mapping and Definition
Complaint Type	<p><i>Student Information > Health > Health Office Visits > New > Complaint(s)</i> <i>System Administration > Health > Health Complaint Type</i></p> <p>Indicates the type of complaint assigned to the student's visit to the Health Office.</p>
Discharge Type	<p><i>Student Information > Health > Health Office Visits > Discharge(s)</i> <i>System Administration > Health > Health Discharge Type</i></p> <p>Indicates the discharge action assigned to the student's visit to the Health Office.</p>
Intervention Type	<p><i>Student Information > Health > Health Office Visits > Interventions(s)</i> <i>System Administration > Health > Health Intervention Type</i></p> <p>Indicates the assigned care noted on the health office visit record in response to the observation.</p>
Intervention Type Item	<p><i>Student Information > Health > Health Office Visits > Interventions(s)</i> <i>System Administration > Health > Intervention Type</i></p> <p>Indicates specific action given in response to the selected intervention.</p>
Observation Type	<p><i>Student Information > Health > Health Office Visits > Observation(s)</i> <i>System Administration > Health > Observation Types</i></p> <p>Indicates the issue the health office staff noted when the student arrived at the health office for treatment.</p>
Observation Type Item	<p><i>Student Information > Health > Health Office Visits > Observation(s)</i> <i>System Administration > Health > Observation Type</i></p> <p>Indicates specific action given in response to the selected intervention.</p>
Recorded By (Full Name)	<p><i>Student Information > Health > Health Office Visits > Recorded By</i></p> <p>Staff who recorded the student's visit.</p>
Student's Full Name (Health Visits)	<p><i>Student Information > General > Summary</i></p> <p>Student who visited the Health Office.</p>

Medication

View: v_MedicationDetail

Element	Mapping and Definition
Comments/Precautions	<i>Student Information > Health > Medications > Comments/Precautions</i> Notes about the student's medication record.
Date Submitted	<i>Student Information > Health > Medications > Date Submitted</i> Indicates the date the medication information was given to the school.
Directions	<i>Student Information > Health > Medications > Directions for Use</i> Lists how to administer the medication, as directed by the student's medical professional.
Doses Remaining	<i>Student Information > Health > Medications > Remaining Doses</i> Lists the remaining medication doses the school has on site.
Doses Submitted	<i>Student Information > Health > Medications > Doses Submitted</i> Total number of doses given to the school by the parent/guardian.
Medication Form	<i>Student Information > Health > Medications > Medication Form</i> Form of the medication (e.g., tablet, capsule, etc.)
Medication Name	<i>Student Information > Health > Medications > Medication Name</i> The name of the medication that is administered to the student.
Notification Threshold	<i>Student Information > Health > Medications > Notification Threshold</i> Number at which the parent is notified more doses are needed.
Recorded By (Full Name)	<i>Student Information > Health > Medications > Recorded By</i> Health office staff who recorded the medication.
Student's Full Name (Medication)	<i>Student Information > General > Summary</i> Student receiving the medication.

Special Education

View: cube_spед

Element	Mapping and Definition
Disability	<i>Student Information > General > Enrollments > Special Ed Fields > Special Education Disability Setting</i> Student's assigned disability.
Evaluation Name	<i>Student Information > Special Education > Documents > Evaluation > Evaluation Editor</i> Name of the evaluation assigned to the student.
Evaluation Result Disability	<i>Student Information > Special Education > Documents > Evaluation > Results and Eligibility</i> Notes the student's evaluation results and disability to receive services.

Evaluation Result Eligibility	<i>Student Information > Special Education > Documents > Evaluation > Results and Eligibility</i> Notes the student's evaluation results and eligibility to receive services.
Plan Manager Name	<i>Student Information > Special Education > Team Members</i> Name of the staff person responsible for the student's plan (case manager).
Plan Name	<i>Student Information > Special Education > Documents > Plan</i> Name of the plan assigned to the student.
Primary Disability	<i>Student Information > General > Enrollments > Special Ed Fields > Primary Disability</i> The primary disability assigned to the student.
Secondary Disability	<i>Student Information > General > Enrollments > Special Ed Fields > Secondary Disability</i> The secondary disability assigned to the student.
Service Name	<i>Student Information > Special Education > Documents > Plan > Services Editor > Services</i> The service a student is receiving as noted on his/her Education Plan.
Service Position	<i>Student Information > Special Education > Documents > Plan > Services Editor > Service Position</i> The selected service position the student is receiving.
Service Provider Name	<i>Student Information > Special Education > Documents > Plan > Services Editor > Service Provider</i> The person/organization providing the service.
Service State Code	<i>Student Information > Special Education > Documents > Plan > Services Editor > Services</i> State code assigned to the service, if applicable.
Special Education Exit Reason	<i>Student Information > General > Enrollments > Special Ed Fields</i> Reason student is no longer receiving services
Special Education Setting	<i>Student Information > General > Enrollments > Special Ed Fields</i> Student's special education setting.
Special Education Status	<i>Student Information > General > Enrollments > Special Ed Fields</i> Student's special education status.

Food Service

View: cube_fram

Element	Mapping and Definition
Certified Type	<i>FRAM > Eligibility > Certified Type</i> The determination reason for the student's reported Eligibility value.

Eligibility	<i>FRAM > Eligibility > Eligibility</i> Indicates the level of meal service benefits awarded to a student/household.
End Date	<i>FRAM > Eligibility > End Date</i> The last day on which the student's Eligibility is active.
Opt Out Medicaid	<i>FRAM > Eligibility > Opt Out Medicaid</i> Indicates the student's guardian has indicated he/she does not wish to be contacted by Medicaid regarding meal benefits.
Opt Out State Child Health Insurance Provider	<i>FRAM > Eligibility > Opt Out SCHIP</i> Indicates student's guardian has indicated he/she does not wish to be contacted by SCHIP regarding meal benefits.
School Year	<i>FRAM > Eligibility > School Year</i> The school year for which the Eligibility applies.
Start Date	<i>FRAM > Eligibility > Start Date</i> The first day on which the Eligibility applies.
State Code	<i>FRAM > Eligibility > State Eligibility Code</i> The State Eligibility Code based on the student's Eligibility status.

Standardized Tests

View: This view is built dynamically based on the contents of the Test and TestScore tables.

System Administration > Assessment > Tests

Student Information > General > Assessments

Standard tests can be state-required exams by grade level (BSTs, MCAs) or they can be nation-wide tests or college acceptance exams (SATs, ACTs). The pivot reports the Result Codes recorded for students for each test defined in Campus. **The list of tests and applicable elements will vary by district.**

Custom Tabs

View: Depending on the database setup, the following may be used:

- CustomStudent
- CampusDictionary
- CampusAttribute
- Enrollment
- Enrollment.state

System Administration > Custom > Custom Tabs

System Administration > Custom > Custom Attribute

Information is pulled from the various custom elements created by a district. Elements are listed alphabetically and vary by district.

Creating a New Pivot

1. Select one of the available Counts or Analysis options from the list of options under the **Create a New Pivot**.
2. Click the **New Pivot** button.
3. Enter the **Pivot Name**.
4. Enter the **Created Date**.
5. If desired, select an **Ad hoc Filter** for a list of students to include in the Pivot.
6. Enter an **Effective Date**.
7. Mark the **Active Only** checkbox, if desired.
8. Select the desired **Measures**.
9. Select the desired **Dimensions**.
10. Select the appropriate **Organized To** option from the dropdown list.
11. If **Data Warehouse** options are activated, select the appropriate Data Source from the dropdown list.
12. Click the **Display Pivot** button to display the new pivot, or click the **Save** button to save the selections to display at a later time.

Understanding Pivots

Once pivot fields are defined in the Data Analysis editor or an existing pivot has been opened, users are directed to the Flash-based Data Analysis tool. From here, users can manipulate pivot data and present information in several visual forms.

NATE TESTING									
1	2	3	4	5	6	7	8	9	10
1									
2		▼ Age							
3	▼ Race Ethnicity	10	11	6	7	8	9		Total Count of Students
4	American Indian or Alaskan Native	3			1		1		5
5	Asian or Pacific Islander	7			5	5	10		27
6	Black, not Hispanic	32		2	18	28	26		106
7	Hispanic	14	1	2	16	15	23		71
8	White, not Hispanic	47	2	4	51	45	59		208
9	Total Count of Students	103	3	8	91	93	119		417
10									

Image 9: Pivot Display

The Year, School, Calendar, Dimensions and additional fields selected or entered on the Data Analysis editor will determine what information is populated on the pivot grid. By default, only two dimensions are included on the grid. Instructions on adding additional dimensions are described in the following sections below.

In the example above, data is broken down into the total amount of students of a particular Race Ethnicity per Age. To modify what Race Ethnicities or Ages are factored into this data, users can select the white arrow next to the column or row header.

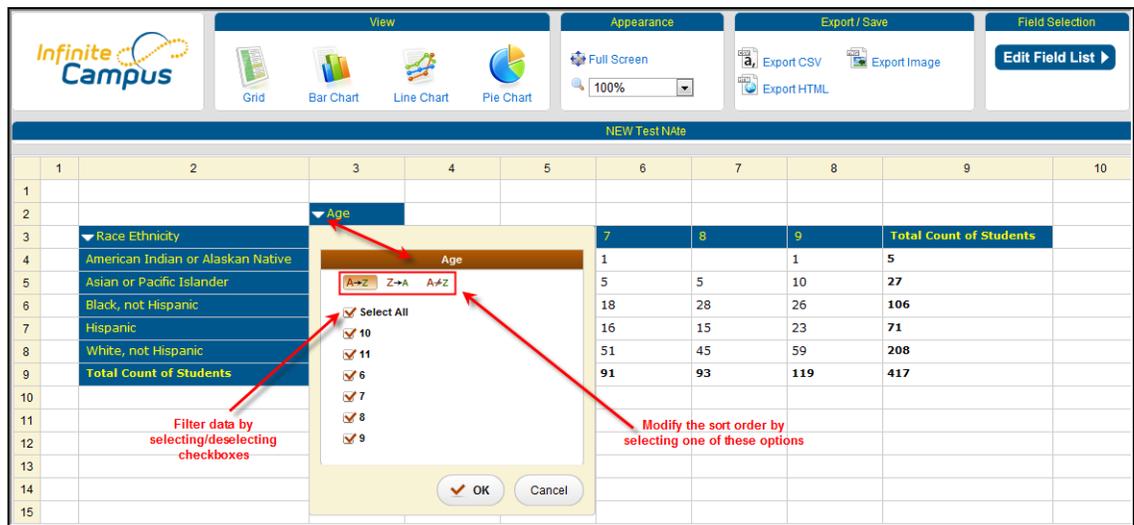


Image 10: Changing Pivot Display Criteria

An editor will appear in a separate window, displaying all included values within the element. Users can filter pivot table data by selecting or deselecting element values. Users may also control how pivot table data is sorted by selecting one of the three sort options above the element value checkboxes. Once all appropriate changes have been made, select the **OK** button. Selected values are now saved and reflected on the pivot table.

One important feature of the Data Analysis tool is the ability to freely move and remove dimensions from columns and rows. To begin modifying and adding pivot table dimensions, select the **Edit Field List** button.

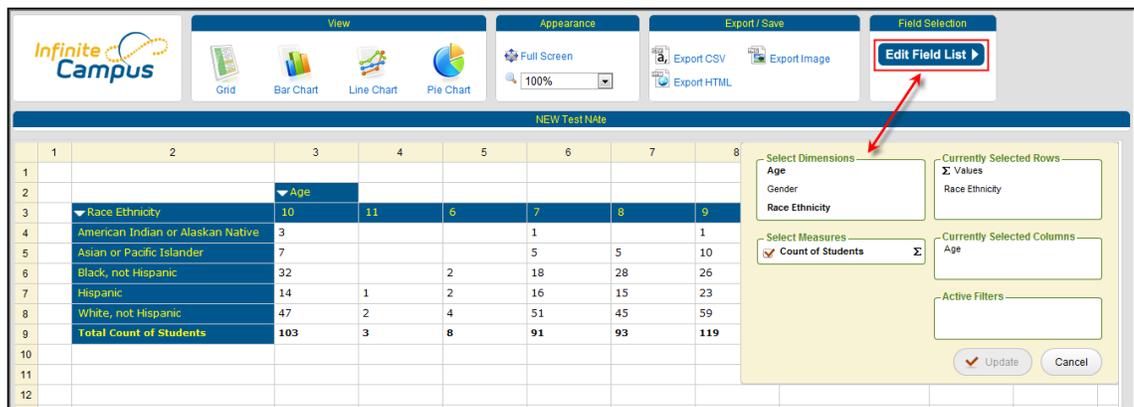


Image 11: Editing Pivot Information

An editor will appear displaying all available dimensions (based on dimensions originally set when creating the pivot), applied Measures, Active Filters and all dimensions currently set in rows or columns (as indicated in bold in the Select Dimensions window). To add a dimension to a row or column, click and drag the dimension into the **Currently Selected Rows**, **Currently Selected Columns** or **Active Filters** sections. Once all dimensions have been moved accordingly, select the **Update** button to apply these changes to the pivot table.

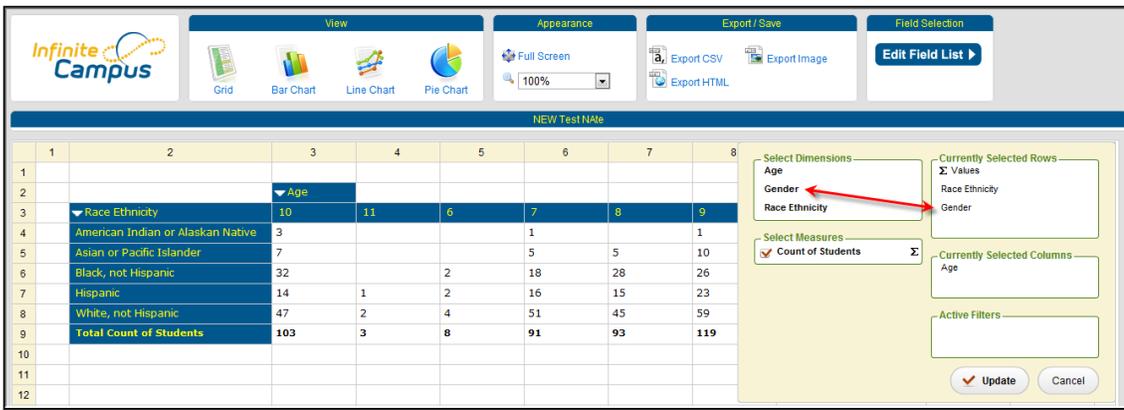


Image 12: Selected Rows and Columns

In the example above, Gender was added as a row. This modification was saved by selecting the **Update** button and the change was reflected on the pivot table (see image below).

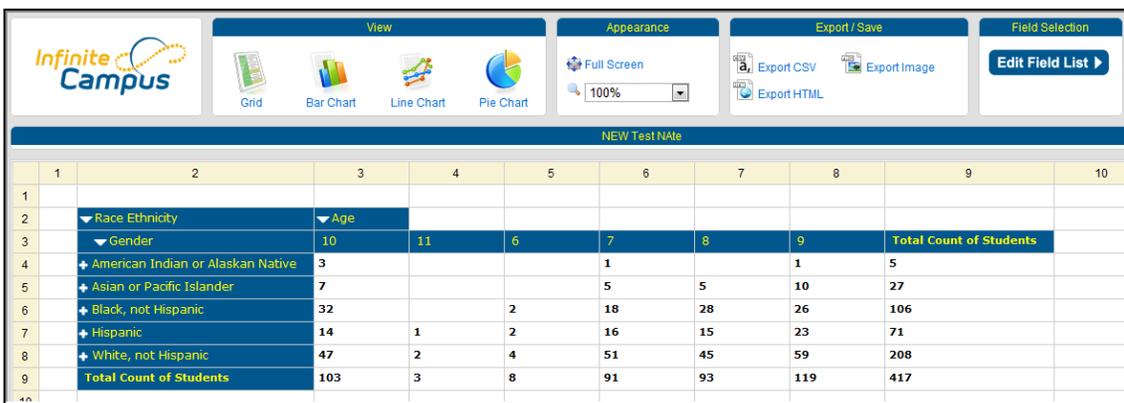


Image 13: Modified Pivot Display

The pivot table now includes the Gender row and totals are now a culmination of Race Ethnicity and Gender defined by Age. By default, all values for an added column or row are selected. To better refine pivot table results, specific values can be chosen by selecting the white arrow next to the column or row.

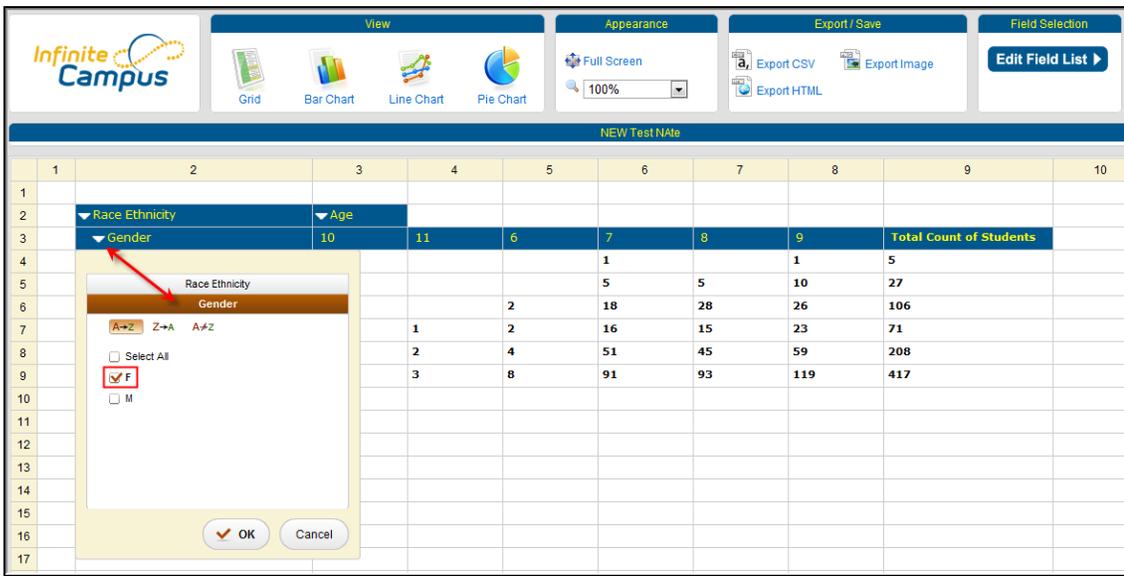


Image 14: Modified Pivot Options

In the example above, only the Gender value of the Female row has been selected. Pivot table data will now reflect this value modification once the OK button is selected.

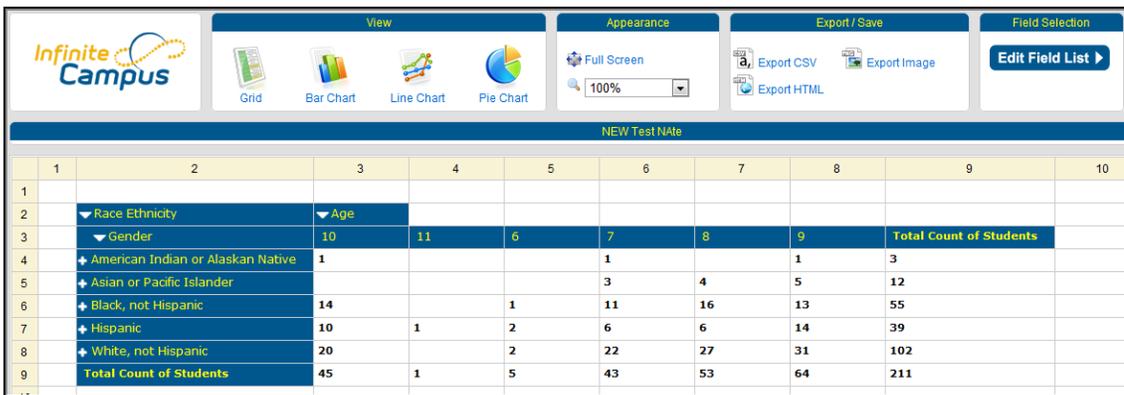


Image 15: Modified Pivot Options

Pivot table data has now been narrowed down to the total amount of Females who have a specific Race Ethnicity by Age. This allows the user to visually see complicated cross referenced data in an easy to understand format.

1	2	3	4	5	6	7	8	9	10
1									
2	▼ Race Ethnicity	▼ Age							
3	▼ Gender	10	11	6	7	8	9		Total Count of Students
4	➔ American Indian or Alaskan Native	3			1		1		5
5	➔ F	1			1		1		3
6	➔ M	2							2
7	➔ Asian or Pacific Islander	7			5	5	10		27
8	➔ Black, not Hispanic	32		2	18	28	26		106
9	➔ Hispanic	14	1	2	16	15	23		71
10	➔ White, not Hispanic	47	2	4	51	45	59		208
11	Total Count of Students	103	3	8	91	93	119		417

Image 16: Modified Pivot Options

Users may also break down cross referenced data per column or row by selecting the (+) sign next to a column or row header.

In the example above, expanding the American Indian or Alaska Native header enabled the Gender rows and values to appear. These rows display the total amount of Male and Female students who have a Race Ethnicity of American Indian or Alaska Native by Age, allowing users to better understand how Total amounts were determined. This feature is most useful when attempting to understand column or row totals when multiple column and row dimensions are being cross referenced.

Another important feature of the Data Analysis tool is its drill-through functionality. This feature allows users to convert grid numbers into a list of all students included within that number. This can be done by double clicking the desired number on the grid.

1	2	3	4	5	6	7	8	9	10
1									
2	▼ Race Ethnicity	▼ Grade							
3	▼ Gender	10	11	12					Total Count of Students
4	➔ American Indian or Alaskan Native	4	6	8					18
5	➔ F	3	5	3					11
6	➔ M	1	1						
7	➔ Asian or Pacific Islander	56	50						
8	➔ Black, not Hispanic	182	185						
9	➔ Hispanic	52	48						
10	➔ White, not Hispanic	176	189						
11	Total Count of Students	470	478	465	1,413				

Image 17: Drilling Down Pivot Data

In the example above, the number 3 (representing the number of American Indian or Alaska Native females in grade 10) is double clicked, causing a validation pop-up to appear. Selecting **OK** will cause the Search tab to display all students represented in this number.

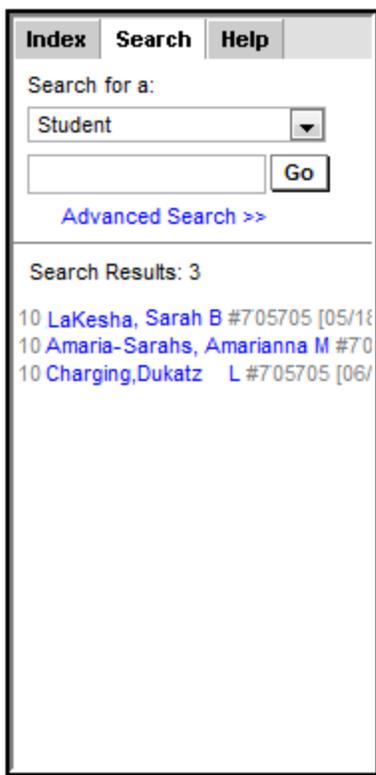


Image 18: Drill Down Search Results

As seen in the image above, double clicking the 3 on the grid returned Search results on the three students that make up this number.

Users can also sort column/row data by ascending or descending numeric value by selecting the white triangles in a column or row.

The screenshot shows the 'Infinite Campus' interface with a data grid. The grid has columns numbered 1 to 10 and rows numbered 1 to 10. The data is as follows:

	1	2	3	4	5	6	7	8	9	10
1										
2		▼ Race Ethnicity	▼ Grade							
3		▼ Gender	12	11	10	▲ Total Count of Students				
4		+ American Indian or Alaskan Native	8	6	4	18				
5		- Hispanic	38	48	52	138				
6		M	19	24	24	67				
7		F	19	24	28	71				
8		+ Asian or Pacific Islander	45	50	56	151				
9		+ White, not Hispanic	222	189	176	587				
10		- Black, not Hispanic	152	185	182	519				

Image 19: Sorting Grid Values

Selecting the < triangle will sort the columns or rows by ascending numeric value. Selecting the > triangle will sort the columns or rows by descending value.

Data Visualization Options

Pivot table data can be viewed in several formats and appear differently for the desired results.

	1	2	3	4	5	6	7	8	9	10
1										
2			Age							
3		Race Ethnicity	10	11	6	7	8	9	Total Count of Students	
4		American Indian or Alaskan Native	3			1		1	5	
5		Asian or Pacific Islander	7			5	5	10	27	
6		Black, not Hispanic	32		2	18	28	26	106	
7		Hispanic	14	1	2	16	15	23	71	
8		White, not Hispanic	47	2	4	51	45	59	208	
9		Total Count of Students	103	3	8	91	93	119	417	
10										

Image 20: Pivot Display Options

By default, pivot table data is displayed in the **Grid** format. The Grid is a spreadsheet-like representation of pivot data and serves as the general format for manipulating and reorganizing dimensions, filters and measures. Grids may be presented in a full screen display by selecting the **Full Screen** button in the Appearance section at the top of the screen. Full Screen is used for presentational purposes only and does not allow users to modify pivot table data. To exit Full Screen, select the Esc key.

Users may also zoom in or out on Grid data by selecting a percentage from the zoom dropdown list next to the magnifying glass in the Appearance section. This feature allows users to view a larger portion of grid data at once, or zoom in on specific columns or rows.

Users also have the ability to display pivot data visually in bar, line and pie charts, as described in the sections below.

Bar Chart

Pivot table data can be displayed in a detailed Bar Chart format. To convert data into a bar chart, select the **Bar Chart** icon in the View section at the top of the screen.



Image 21: Pivot Display Options - Bar Chart

Pivot data is broken down into totals for each column/row intersection. Colors are defined in the legend at the bottom of the screen. To view detailed information about the total and exact row and column, hover the cursor over the bar. A small box will appear describing information.

To save this chart in CSV, HTML or Image format, select the appropriate option in the Export/Save section at the top of the screen. HTML and Image formats will save the chart to visually appear exactly as shown on screen.

Line Chart

Pivot table data can be displayed in a detailed Line Chart format. To convert data into a line chart select the **Line Chart** icon in the View section at the top of the screen.

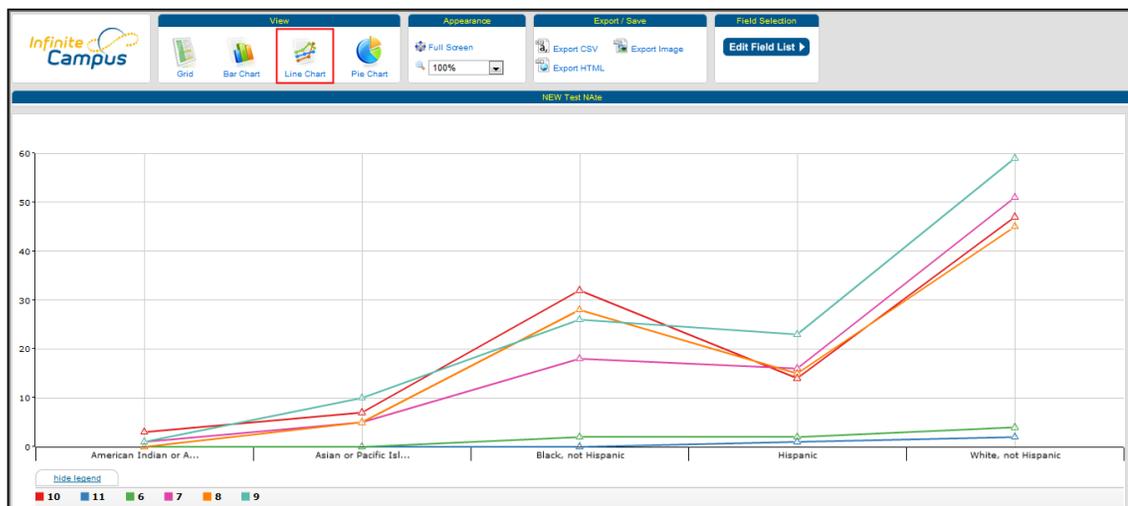


Image 22: Pivot Display Options - Line Chart

Pivot data is broken down into totals for each column/row intersection. Colors are defined in the legend at the bottom of the screen. To view detailed information about the total and exact row and column, hover the mouse cursor over the triangle of the corresponding color and line. A small box will appear describing information.

To save this chart in CSV, HTML or Image format, select the appropriate option in the Export/Save section at the top of the screen. HTML and Image formats will save the chart to visually appear exactly as shown on screen.

Pie Chart

Pivot table data can also be displayed in a detailed Pie Chart format. To convert data into a pie chart select the **Pie Chart** icon in the View section at the top of the screen.

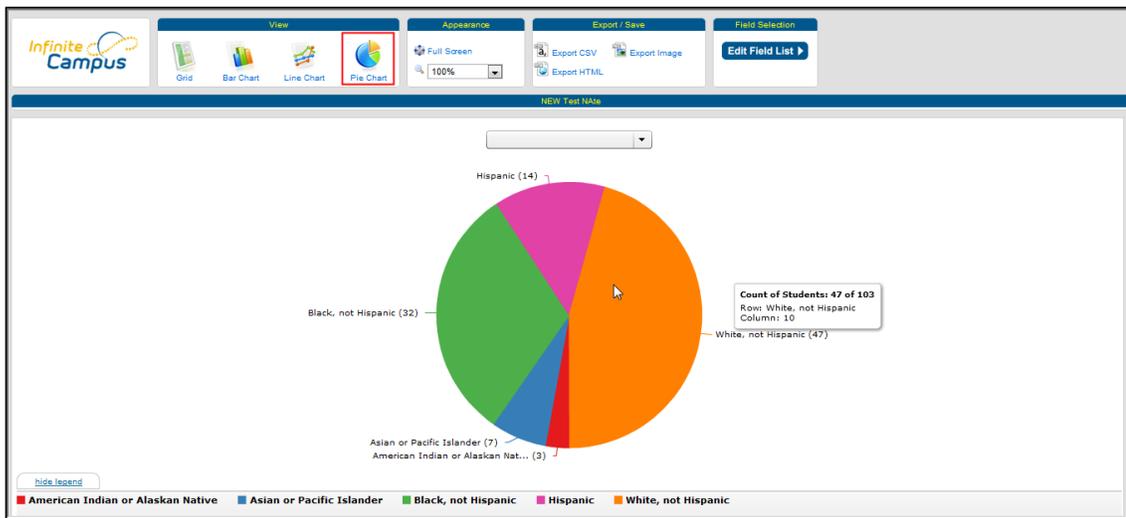


Image 23: Pivot Display Options - Pie Chart

Pivot data is broken down into totals for each column/row intersection. Colors are defined in the legend at the bottom of the screen. To view detailed information about the total and exact row and column, hover the cursor over the desired pie slice. A small box will appear describing information. Pie chart information is displayed based on the column selected in the dropdown list above the chart.

To save this chart in CSV, HTML or Image format, select the appropriate option in the Export/Save section at the top of the screen. HTML and Image formats will save the chart to visually appear exactly as shown on screen.

Exporting/Saving Pivots

Users have the ability to export pivot data into a number of useful formats. Users may also save the exact organization and data within a pivot.

- ⊖ Pivots contain all data from the Effective Date entered on the Data Analysis editor to the current date. Because of this, users are unable to do historical comparative analysis of data. Users are highly encouraged to export data periodically in order to facilitate comparative analysis.

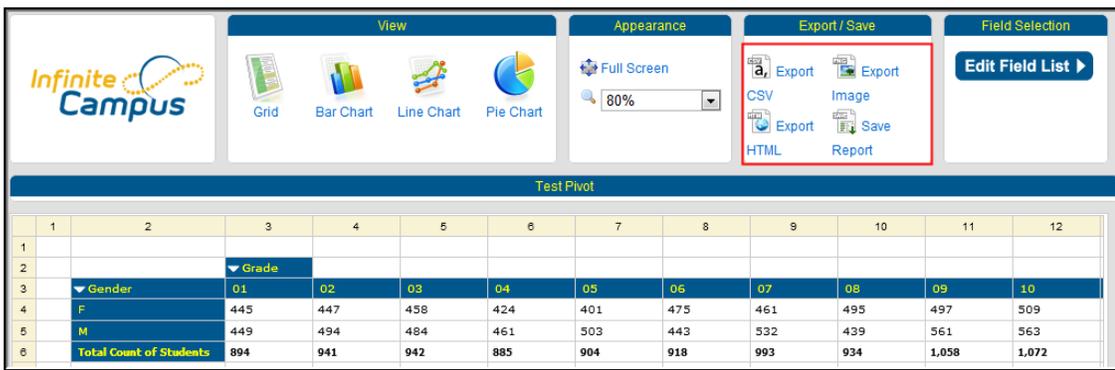


Image 24: Pivot Display Options - Exporting Data

To save the organizational layout of the pivot, select the **Save Report** button. A new pivot will appear in the Saved Pivots window, allowing users to access the pivot in the desired layout.

 If the Pivot Name was not saved when creating the pivot within the Data Analysis editor, the Save Report button will not be available.

To export a pivot, select the desired format in the Export/Save section at the top of the screen. Users will receive a validation pop-up message.

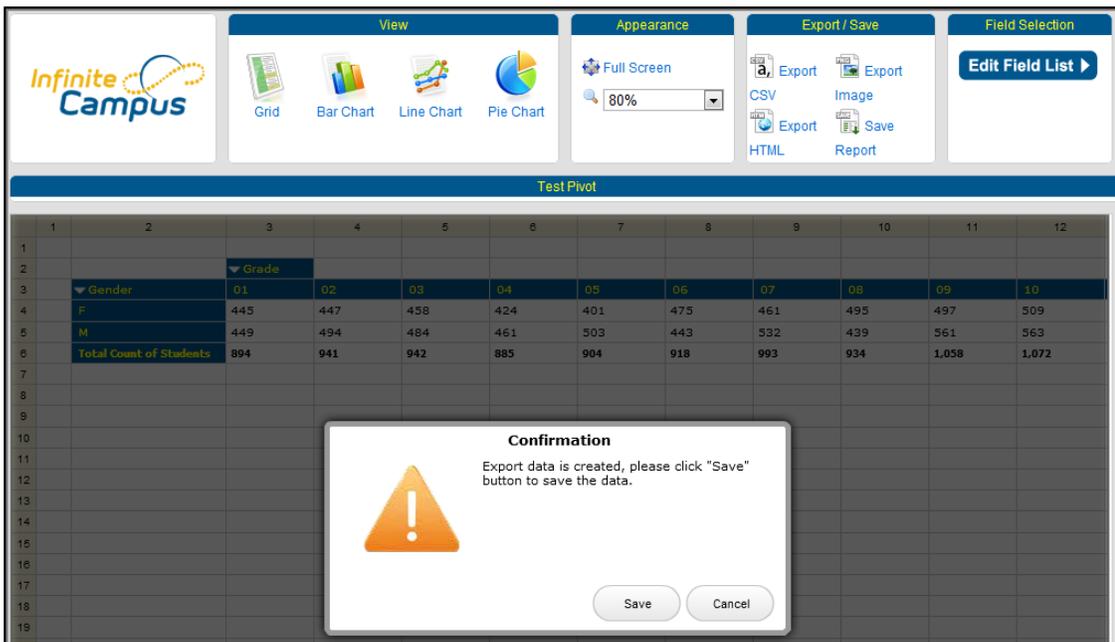


Image 25: Pivot Display Options - Saving Pivots

Select the **Save** button to initiate saving the pivot to a local harddrive or storage device. Select the **Cancel** button to cancel the save and return to the pivot grid.

	01	02	03	04	05	06	07	08	09	10	11	12	12th	13	bn 6	EC	HK	K	KA	KD	KG	KP	PS	Total Count of Students
F	445	447	458	424	401	475	461	495	497	509	479	591	2	12	2	88	17	2	145	170	41	131	70	6,362
M	449	494	484	461	503	443	532	439	561	563	544	582		6		160	35	3	131	172	51	95	65	6,773
Total Count of Students	894	941	942	885	904	918	993	934	1,058	1,072	1,023	1,173	2	18	2	248	52	5	276	342	92	226	135	13,135

Image 26: Pivot Display Options - HTML View

Once the pivot has been saved, users may open and use the file as desired. The image above is an example of a grid saved in HTML format.

Editing and Deleting Pivots

To edit an existing pivot, select the pivot from the Saved Pivot window and click the **Edit** button.

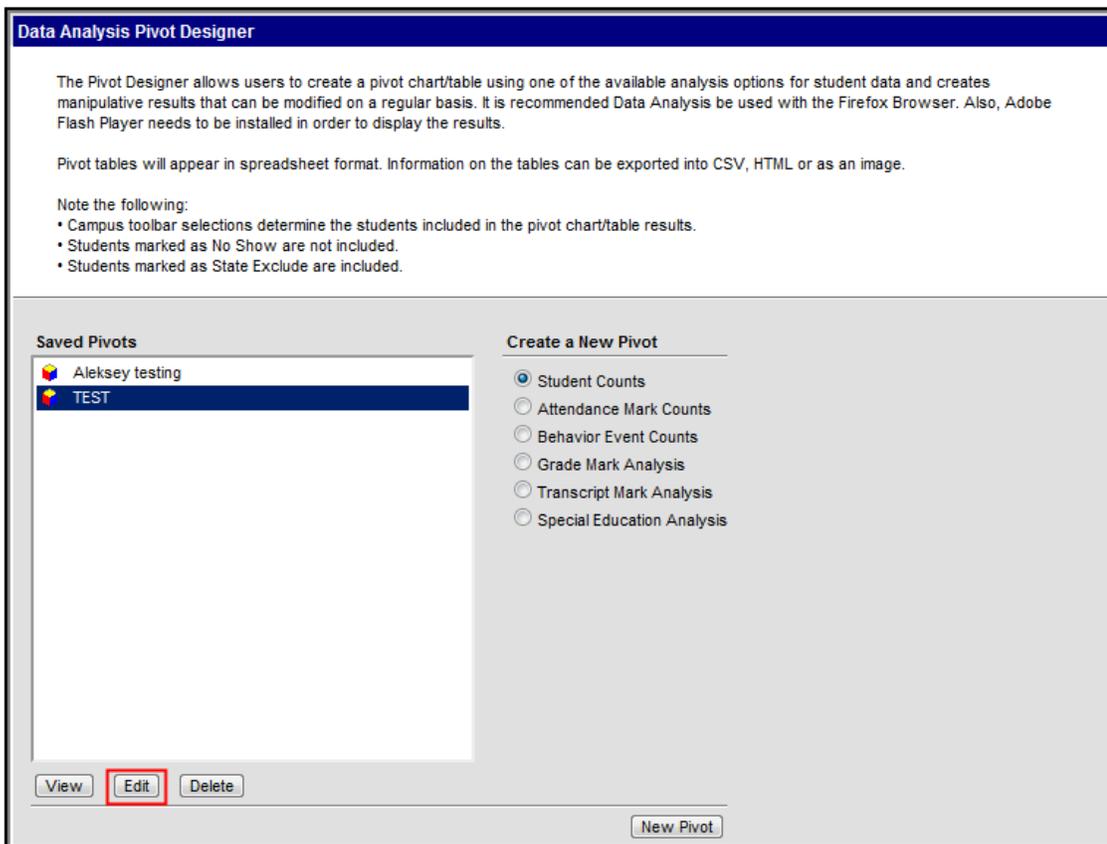


Image 27: Data Analysis - Edit

Users are directed back to the Data Analysis editor where modifications can be made to existing dimensions and field data. To save modified pivot field data select the **Save** icon. To view modified pivot data select the **Display Pivot** button.

To delete an existing pivot, select the pivot from the Saved Pivots window and click the **Delete** button. Users will receive a warning message. Select **OK** to delete the pivot or select **Cancel** to cancel the deletion process.

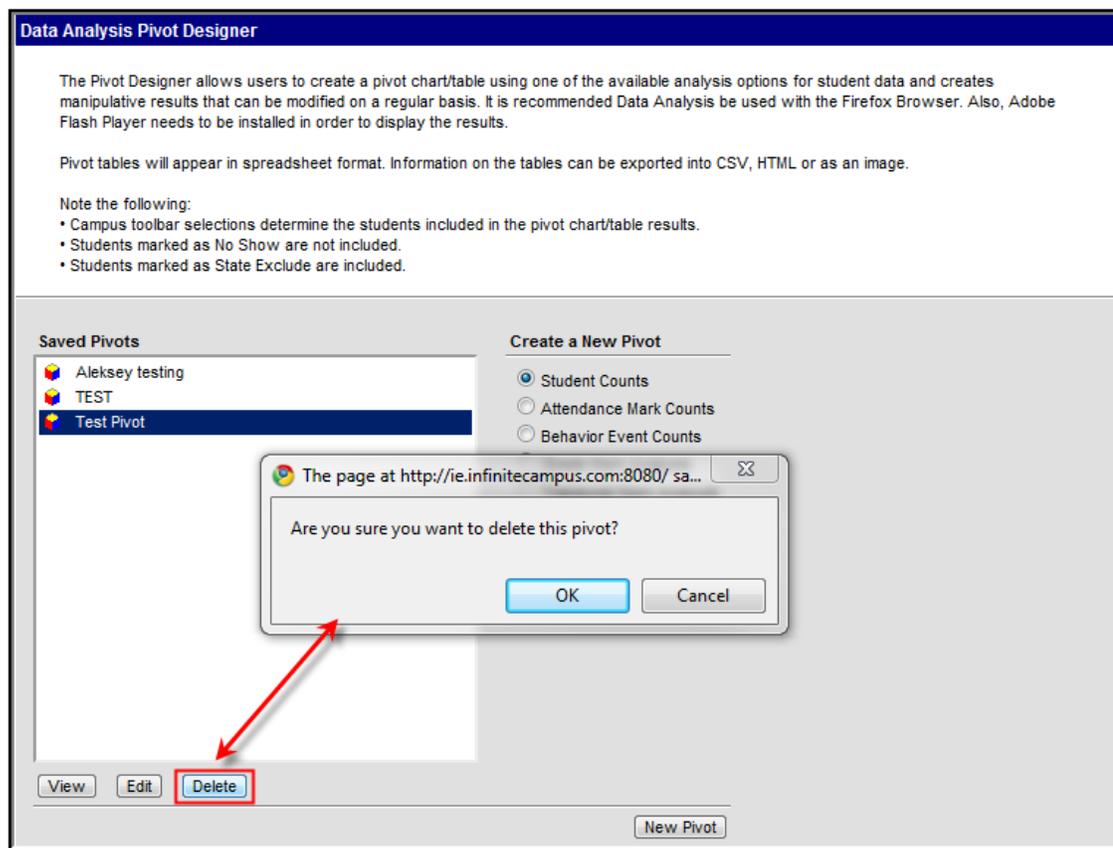


Image 28: Data Analysis - Delete

Sample Pivots

The following are sample pivots that can be created using Data Analysis.

Analyzing Attendance Data and Race/Ethnicity

1. Create a new pivot using the **Attendance Mark Counts** option and click the New Pivot button.
2. Enter a **Name** for the report – **R/E by G/Grade**.
3. If desired, enter the current date in the **Created Date** field.
4. Select the following fields from the choice of options:
 - Student** - select **Gender, Race/Ethnicity, and Grade**
 - Attendance** - select **Status** (this is either absent or tardy)
5. Click the **Display Pivot** button.
6. Click the Edit Field List and move the **Race/Ethnicity** Dimensions to the Currently Selected Columns and click the Update button.

R/E by G/Grade (se)								
	1	2	3	4	5	6	7	8
1								
2			▼ Grade	▼ Race Ethnicity				
3	▼ Gender	+ 09	+ 10	+ 11	+ 12	Total Sum of Period Absences		
4	F	46	49	61	92	248		
5	M	45	71	71	98	285		
6	Total Sum of Period Absences	91	120	132	190	533		
7								
8								
9								

Image 29: Data Analysis Pivot - Race/Ethnicity and Absences

Analyzing Student Enrollment Data

1. Create a new pivot using the **Select Student Counts** measure and click the **New Pivot** button.
2. Enter the **Name** for the pivot.
3. If desired, enter the current date in the **Created Date** field.
4. Select the following options:
 - Student** - select **Gender** and **Race/Ethnicity**
 - Enrollment** – select Start and End Status
5. Click the **Display Pivot** button.

Student Enrollment						
	1	2	3	4	5	6
1						
2			▼ Race Ethnicity			
3	▼ Gender	American Indian or Alaskan Native	Asian or Pacific Islander	Black, not Hispanic	Hispan	
4	F	12	60	168	72	
5	M	14	63	188	79	
6	Total Count of Students	26	123	356	151	
7						
8						
9						

Image 30: Data Analysis Pivot - Race, Enrollment

Analyzing Student Behavior Data

1. Create a new pivot using the **Behavior Event Counts** measure and click the **New Pivot** button.
2. Enter the **Name** for the pivot.
3. If desired, enter the current date in the **Created Date** field.
4. Select the following options:
Student Filters - select Active Only
Student – Grade and Gender
Behavior – Role, Event and Resolution
5. Click the **Display Pivot** button.
6. Select the **Edit Field List** and move the **Event** and **Resolution** options from the **Select Dimensions** to the **Currently Selected Columns**.
7. Click the **Update** button. The pivot table will recalculate and display the newly added columns.

The screenshot shows the Infinite Campus Data Analysis Pivot interface. At the top, there are tabs for 'View' (Grid, Bar Chart, Line Chart, Pie Chart) and 'Appearance' (Full Screen, 100% zoom). Below these are 'Export CSV' and 'Export HTML' buttons. The main area displays a pivot table titled 'behavior' with columns 1 through 6. The table shows data for Gender (F, M) and Total Count of Behavior Events, with sub-totals for Event (Abuse, Verbal/Non-Verbal) and Resolution (Abuse/Lang/Gest, AL/Chem Pos/Use).

	1	2	3	4	5	6
1						
2			▼ Event	▼ Grade	▼ Resolution	
3			- Abuse, Verbal/Non-Verbal		+ Abuse/Lang/Gest	+ AL/Chem Pos/Use
4	▼ Gender	Total		+ 10	Total	Total
5	F					4
6	M	1		1	4	1
7	Total Count of Behavior Events	1		1	4	1
8						
9						

Image 31: Data Analysis Pivot - Behavior

Feature Comparison - Campus Data Analysis vs. Campus Cube Designer

Campus Data Analysis provides a number of improvements over Campus Cube Designer. The following table describes how these tools stack up against one another:

Feature	Campus Data Analysis	Campus Cube Designer
Presents results using real-time data or most recent data exported from Data Warehouse.	X	
Display percentages on the grid and charts.	X	

Creates charts and reports using present dimensions. This allows users who are unfamiliar with the pivot design to click once to run a report with present dimensions or go directly to a chart.	X	
Save format for a specific district user group to allow access to real-time data with one click access.	X	
Ability to configure up to eight dimension levels.	X	
Display totals appear on bottom right of page.	X	
Improved dimension filtering	X	
Illustrate behavior counts using day, month and year sorting options for resolutions and events.	X	
Functions similarly to Microsoft Excel pivot tables	X	
View grand totals and subtotals indicated in bold	X	
One click to display graph formats	X	
Modify display appearance sizes to accommodate personal needs	X	
Runtime environment	Flash 10	Java
Export data to CSV, HTML or image format	X	X
Graph formats: Grid, bar chart, pie chart and line graph	X	X
Export data to Microsoft Word or PDF format		X
Graph formats: Area chart and gauge chart		X
Ability to use exception highlights such as adding color to certain amounts		X
Advanced features/operators: Differences, ratios, percent growth, multiply by constant, ability to add custom formulas		X
Ability to access sub-reports without returning to User Interface		X
Ability to print from report in one click		X