

The eScholar Complete Data Warehouse® for PK-12 (CDW-PK12) is a commercial off-the-shelf (COTS) solution enabling state and local education agencies to integrate system-wide education data into a centralized data repository, the data warehouse. Data stored in the data warehouse may be sourced from the wide-variety of often disparate transactional systems within an education system. CDW-PK12 unlocks the value of system-wide transactional data by integrating data into a single data architecture sharing common definitions and linkages. Using the CDW-PK12, education agencies can analyze data from multiple functional areas, and can do so longitudinally in order to spot long-term trends and gain insight into what works when educating students. Leveraging the CDW-PK12 solution, education professionals can have a complete picture of their organization from student demographics, courses, grades, tests, attendance, and discipline to staff demographics, assignments, and qualifications, to budgets, funding, programs, services, surveys and more.

As the needs of the education market evolve, so does our data model. With each new version of the CDW-PK12 product, new data elements and/or domains may be introduced to accommodate a need to capture more or different data. The most recent release, version 11.0, introduces a new Facilities domain as well as additional elements in support of discipline data, data provided from the National Student Clearinghouse®, and elements for defining and grouping districts and schools.

Please find below descriptions for the broad range of data categories maintained in the CDW-PK12.

1. Student Demographics and Attributes

Track student attributes including gender, race/ethnicity, economic status, address, contact and guardian information, primary language, challenges, LEP participation, weighted and un-weighted GPA. Mappings to the US Department of Education's NCES defined data elements are included. Snapshots of student demographics can be taken at crucial points to capture the composition of the student body at that point. A snapshot of the students and their demographics can also be captured in association with the administration of an assessment. This feature provides the ability to understand differences in the makeup of the student body at different points during a school year.

2. Course and Class Attributes

Track attributes of courses and sections offered including subject, department, credits, honors indicator, course type, grade type, and course length.

3. Course Instructor

For any point in time, track which instructors teach which classes. These data are a key component in analyzing relationships among teachers and students, and particularly in analyzing student performance and outcomes within the context of teachers and their qualifications.

4. Class Summary

Track summary class information for any point in time including number of special education students, gifted students, and all students.

5. Staff Assignment

For any point in time, track all staff assignments, including assignments of staff members to locations outside their home districts. Elements include assignment code, assignment location, assignment job code, assignment room and site, funding source, and more.

6. Student Attendance

Track daily student attendance at each location. Define attendance codes representing both positive and negative attendance such as tardy, AM only, left early, unexcused absence, field trip etc. Summary attendance, including days present, days absent, days absent without excuse, days enrolled, days tardy, and FTE percent, may also be tracked for any range of dates.

7. Staff Attendance

Track staff attendance as well as personal time earned, used, and total accrued both daily and for any date range. Summary attendance data may also be recorded, reflecting aggregate time earned, used, and accrued by all staff at a location for any date range.

8. Student Course Attendance

Track student course attendance including course periods that repeat daily and course blocks with irregular timing. This level of detail is usually captured in middle through high school.

9. Assessments and Assessment Results

Within a single domain of dimension and fact tables, store information for any number of tests – classroom tests and quizzes, exams, state and national high-stakes tests (such as SAT, ACT, MAP, Terranova, etc.) – along with individual student results. Store attributes of a test such as test name, version, components (subtests, clusters or learning standards, skills or content strands, and items or questions), achievement levels and their score ranges, and accommodations and modifications available. Store the corresponding state standard of each test component. Track individual student results for each component of each test and test date, including multiple types of scores (raw, scaled, percent, and alpha scores, local and national percentiles and stanines, norm curve equivalents, standard performance index, standard

performance level), status (tested, not tested, invalid, etc.), achievement level, and accommodations and modifications used. Storing test data in a single set of tables enables sophisticated longitudinal analysis across time, across tests, for individuals or cohorts, within or across achievement levels or state standards, and within the context of other educational performance measures or student activity.

10. Course Grades, Quarter Grades, Final Grades

Track numeric and alpha grades for individual students for each class.

11. Course Enrollment

Track student enrollment and withdrawal within a course and section. Enrollment codes may represent various types of enrollment or withdrawal and may be grouped into categories representing broader types of enrollment or withdrawal.

12. School Enrollment

Track school enrollment (entry and exit) at the individual student level. Entry and exit codes may identify various reasons for enrollment or withdrawal and may be grouped into categories representing, for example, transfer-in enrollment or dropout withdrawal. By analyzing patterns in School Enrollment, a district can highlight mobility patterns and dropout rates when identifying academic interventions.

13. Discipline Incidents

Track disciplinary incidents including an unlimited number of offenders, infractions, and victims per incident, as well as attributes of incidents and infractions including involvement of weapons, police, and much more.

14. Disciplinary Action

Track disciplinary action per incident per offender, including suspension or expulsion, status of hearings and appeals, time elements and parental involvement. This is used to review the effectiveness of types of responses in reducing recidivism, as well as for determining patterns for dealing with particular types of infractions within the district, a school, classroom, or by individual student.

15. Student Groups and Extracurricular Involvement

Define and track an unlimited number of groups of individual students based on a wide variety of criteria. Examples may include cohorts, students participating in a specific activity, a shared interest or experience. A compelling feature of this domain is the ability to support historical analyses based on current definitions of the groups. The capacity to track student participation in extracurricular and other activities allows analysis against academic performance to find correlations.

16. Title I Programs

Track a variety of services that Students may be receiving under Title I. The details of Title I program eligibility and participation can be recorded using the Program Qualification and Program Participation domains.

17. Transportation

Transportation data includes pickup and drop-off locations for individual students. This information is often used to determine co-occurrence of discipline and attendance issues.

18. Food Service, Medicaid and Household

Track student membership within a household (regardless of name) and a student's degree of participation in lunch and medical programs. This information is used to analyze the effectiveness of specific programs for students in particular socioeconomic and family situations.

19. Special Education Students

Track details specific to special education students such as disabilities, placement type, last IEP date, last evaluation date, service level, periodic review dates, special education entry and exit dates and reasons, and much more.

20. Special Education Services

Track each special education service received by a student as well as the details of each service. Elements include Service Code, Placement Type, Compliance Date, Start and End Dates of service, Service Provider Name, and much more.

21. Special Education Events

Define events and event sequences, and track the details of each event including Event Type Code, Event Reasons, Event Status and Outcome Codes, relevant dates, and more.

22. Location Attributes and Measures

Attributes and measures of a location, such as AYP Status and Graduation Rate, can be recorded on an annual basis. Data disaggregated by various subgroups can be easily stored for reporting to state and federal agencies.

23. District Attributes and Measures

Attributes and measures of the district, such as AYP Status and Graduation Rate, can be recorded on an annual basis. As with location level data, data disaggregated by various subgroups at the district level can be easily stored for reporting to state and federal agencies.

24. District and Location Groups

Define an unlimited number of groups by which districts or locations may be defined and associate districts or locations to those groups. A group may identify districts or locations as, for

example, **Large**, **Urban**, or **Rural**. The ability to group districts and schools enables analysis of those groups in the context of student or teacher performance, funding, or other data.

25. Programs

Define all programs available and record attributes such as description, type, state program code, accreditation, and category rollups. Example programs may include Reading programs, Enrichment programs, Bilingual programs, LEP/ELL programs, and Special Education programs. Use the Program Qualification and Program Participation domains to track student eligibility for and participation in programs. The ability to track a program provides a powerful mechanism to evaluate and compare the effectiveness of educational programs and to determine how well school programs are meeting the needs of particular sub-populations. The Programs component also provides the foundation to analyze entry and exit from programs and the reasons for such activity.

26. Program Qualification

Track student eligibility for and referral to programs. Elements include qualification date, type, and comments.

27. Program Participation

Track information on student participation in programs. Elements include begin and end dates, program intensity, entry and exit reasons, and more.

28. Staff Demographics and Attributes

Track staff member attributes including gender, race/ethnicity, job class codes, address, contact information, tenure date, years of experience, highest degree earned, and much more. Mappings to the US Department of Education's NCES defined data elements are included. Snapshots of staff demographics can be taken at crucial points to capture the composition of the staff at that point. This feature provides the ability to understand differences in the makeup of the personnel pool at different points during a school year.

29. Staff Professional Development

Define any number of professional development activities, such as mentoring, seminars, and workshops, and track involvement of staff in those activities including start and end dates, withdrawal date, participation level, hours, credits, and more.

30. Staff Certifications

Track Staff certifications, course certification requirements, and staff assignment certification requirements. Each certification achieved by a staff member can be recorded. Additionally, information can be tracked on the specific combination of Certification Types, Certification Areas, and Certification Levels a Staff member must have in order to teach specific Courses. There may be different combinations defined to meet the Course Requirements

and multiple Types, Areas and/or Levels may be required in combination for a particular Course. Finally, information can be tracked on the specific combination of Certification Types, Certification Areas, and Certification Levels a Staff member must have in order to hold a specific Assignment or Position. There may be different combinations defined to meet the Assignment Requirements and multiple Types, Areas and/or Levels may be required in combination for a particular Assignment. The Staff Certification data collected can assist a school district in addressing the 'No Child Left Behind' requirement for highly qualified teachers.

31. Post School Activity

Track information about students after they have left the PK-12 system – through graduation, dropping out, or reaching the maximum age. This domain includes the ability to store information about student enrollment in and degrees earned from higher education institutions as may be provided to education agencies who subscribe to the National Student Clearinghouse®. Such information can be important in analyzing long term success of students within the context of their PK-12 experience.

32. Budgets by Account, Department and Location

Track proposed and approved budget activity by department, fund source, program, account, and date.

33. Actual Spending by Account, Department and Location

General ledger entries can be summarized by department, fund source, program, account, and date and linked to student performance indicators to determine program effectiveness and efficiency.

34. Elementary School Report Cards

Elementary School Report Card data is a valuable component of a student's profile and includes measurements in a broad set of categories. This domain stores a rich set of this data and tie it to a student's record for reference and analysis throughout a student's career.

35. State Attributes & Measures

Records state attributes, such as the Chief State School Officer and the State AYP Status. This data can be easily stored on an annual basis for reporting to state and federal agencies. The capability of storing factual as well as demographic data greatly expands analysis of school and student data.

36. Survey

Gather and analyze a wide variety of anonymous Survey data. Surveys provide you the tool to track your longitudinal success against the public's perception of your schools.

37. Career and Technical Education

Track data related to the Carl D. Perkins Vocational and Technical Education Act of 2006 (Perkins IV). Record information about student participation in CTE education including Classification of Instructional Program (CIP) information, industry credentials earned, statuses, program completion, and learning components,

38. Facilities

New for v11.0 the CDW-PK12 solution provides the capability to store facilities-related data, including building and room attributes building and room components, condition, history, renovation dates, and use. This information can be powerful in analyzing student performance within the context of facility age, environmental conditions, or components.

Why eScholar?

- The leader in education data management, providing successful statewide solutions for 11 SEAs, supporting over 3,500 school districts and over 12 million students across the country.
- Focused exclusively on the education data management industry since 1997.
- Comprehensive services, training and support programs to ensure customer success.
- An established, active user community allowing access to best practices, experience, and support from peers nationwide

Today, our products have become the recognized standards in the student and staff identification and educational data warehousing markets. The eScholar Complete Data Warehouse® solution has become an indispensable solution to local and state education agencies for integrating and managing the vast quantity of information they collect on students, programs, teachers and much more. For more information, contact Sales at sales@escholar.com or (877) 328-2969.

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