Catalyst Reporting Tool (CaRT)

Student Records Data
Key Topics

• Data Warehouse Modeling
• Key Subject Areas
• Scholar Dimension
• Common Questions and Issues
Data Warehouse Modeling

Key Concepts

• Dimension
  • A *dimension table* contains the descriptive attributes used for filtering and grouping measures.

• Fact Table
  • A *fact table* contains the numeric measures produced by an operational measurement event in the real world.

• Grain
  • Lowest level of the fact table. Establishes exactly what a single fact table row represents.
Data Warehouse Modeling

Star Schema

- Academic Plan
- Academic Subplan
- Academic Program
- Enrollment Status

**Term Enrollment**

**Facts** – Units, Cumulative GPA, Term GPA

**Grain** – Students Term Activated Record. One row per term activated student-career per term.
Key Subject Areas

• Academic Plan Summary
• Term Enrollment
• Class Enrollment
  • Academic Course
  • Academic Class
• Class Meeting Pattern
  • Class Enrollment and Meeting Pattern
Subject Areas

• Academic Plan Summary
  – Grain – Student, Career, Plan, Student Career Number
  • Note: Sub-Plan can “break” the grain of this subject area.
  – Facts – Cumulative GPA, Units Towards GPA
Subject Areas

• Term Enrollment
  – Grain – Student, Career, Term
    • Note: PPS information - Subplan can cause duplicates.
  – Facts – Term GPA, Term Units, Cumulative GPA, Cumulative Units, Student Counts
Subject Areas

• Class Enrollment
  – Grain – Student, Career, Term, Class Number
    • Note: PPS information including unique Subplan per student
  – Facts – Grades, Units, Student Counts
Subject Areas

• No Student Information
  • Academic Course
    • Course level information
  • Academic Class
    • Class level information
• Class Meeting Pattern
  • Class Meeting level information (classes with multiple meeting patterns appear multiple times in this subject area)
• Class Enrollment and Meeting Pattern
  • Combination of Class Enrollment and Class Meeting Pattern.
  • Aggregating facts not advised in this subject area, as many layer of duplication are possible.
Scholar Dimension

All tables connected to Scholar can cause duplication if values from them are included in an analysis.
Common Questions and Issues

• Which Units should I use?

• How do I return only enrolled students?

• How do I create an analysis combining multiple subject areas?

• How can I add something to a delivered report?

• How do I save a delivered report to edit in my own folders?