**Flaws in Database Design:**

* Not Normalized Data in Results Table:
  + The epicresults table contains multiple columns for results which violates the principle of database normalization.
* Lack of Foreign Key Constraints:
  + There are no foreign key relationships visible between tables, which can lead to referential integrity issues.
* Inconsistent Data Types:
  + The useradmin field uses tinyint which could be replaced with a boolean to better represent true/false values.
* Redundant Fields:
  + The courseentered field in the epiccourses table seems to be redundant as it seems to serves the same purpose as coursestarted.
* Inconsistent Naming Conventions:
  + The naming of columns across tables is inconsistent, for example: resultid vs. userid vs. courseid.
* Field Lengths and Types:
  + Some fields, like courseyear, use varchar where an int might be more appropriate.

**Corrective Actions Taken:**

* Normalized Results Table:
  + Created a new table epicresultitems to store individual results with columns id, resultid, indicator, and value. This table has a foreign key linking to resultid in the epicresults table. Value refers to the SLO old column from the non normalized epic db, and is this tables version of it.
* Implemented Foreign Key Constraints:
  + Added foreign key constraints to ensure resultcourse (now courseid) in epicresults references courseid in epiccourses, and courseinstructor in epiccourses references userid in epicusers.
* Corrected Data Types:
  + Attempted to change useradmin from tinyint to boolean to clearly represent administrative status, keeps leaving it at tinyint.
* Addressed Redundant Fields:
  + Evaluated the necessity of courseentered and removed it as I found it to be redundant.
* Standardized Naming Conventions:
  + Updated the naming convention to be consistent across all tables, excluding courseinstructor, as I feel this name should stay to not confuse anyone not in familiarity with this db.
* Refined Field Lengths and Types:
  + Changed courseyear to type int to store year values properly

**Corrected ERD:**

