

DATABASE DESIGN & APPLICATIONS

Databases are necessary to organize data and information in business. This event recognizes PBL members who demonstrate they have acquired entry level skills for understanding database usage and development in business.

Eligibility

Each chapter may submit individual who are members from active local chapters, on record in the national center as having paid membership dues by SBLC of the current school year.

Overview

This event consists of two (2) parts: an objective test and a production test, both administered prior to SBLC. Participants are required to complete both parts to be eligible to win an award.

A one (1) hour objective test will be administered prior to SBLC based on the objective test competencies. The score received on this portion of the event will constitute 20 percent of the final event score. Nongraphing calculators will be provided.

Two (2) hours will be given for the school-site production test at a site designated by the state chair/state adviser. Calculators are not allowed on the production portion of the test. The score received on this portion of the event will constitute 80 percent of the final event score.

Guidelines

- Documents produced for this event must be prepared by the participant without help from the adviser or any other person.
- No reference materials are allowed.
- Calculators are not allowed on the production portion of the test.
- The production test will be used to break a tie.

Objective Test Competencies

- data definitions/terminology
- query development/SQL
- table relationships (include referential integrity)
- normalization of data
- advanced queries (joins and unions, subqueries)

Production Competencies

- design of multiple table databases (selection of tables, fields and data types, etc.)
- creation of tables and inserting of data into tables
- development of single table SQL statements
- development of multiple table SQL statements
- creation of forms/reports