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# **Database Design and Applications**

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

## **Competencies**

This event is composed of two (2) parts: an objective test and a production test.

### *Objective Test Competencies*

- data definitions/terminology
- query development
- table relationships (include referential integrity)
- form development
- reports (sorts, groups, graphics, calculations)

### *Production Competencies*

- design of multiple table databases (selection of tables, field and data types, ER diagrams, relationships)
- creation of tables and inserting data into tables
- development of single table SQL statements
- development of multiple table SQL statements
- creation of forms/reports

### **Business Education Curriculum Standard(s):**

Computation; Information Technology

## **Region Eligibility**

Each chapter may enter three (3) participants who are members of active local chapters and are on record in the Pennsylvania state and the FBLA-PBL national offices as having paid dues by January 31. If the region conference is scheduled before January 31, then dues must be paid prior to that conference date as established by the region and posted on the PA FBLA web site.

*Participants are permitted to compete in this event one year only. Under no circumstances may a student repeat in this event.*

**The participant is required to take both the objective and production tests. Otherwise, the participant will be disqualified.**

It is the responsibility of the:

### **local chapter adviser**

- to pay membership dues for all competitors by the published region deadline and to register students through the PA FBLA online registration system by the published deadline.

### **region adviser**

- to verify that membership dues of participants at the region conference comply with the deadlines listed above.

## **State Eligibility**

The minimum number of competitors each region may enter is the first- and second-place winners who are members of active local chapters and are on record in the Pennsylvania state and the FBLA-PBL national offices as having paid dues by January 31 or prior to the region conference by the date posted on the PA FBLA web site.

**The participant is required to take both the objective and school-site tests in order to win an award at the SLC.**

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If the eligible winner(s) cannot attend the SLC, it is the responsibility of the:

**local chapter adviser**

to contact the region adviser about the student who will not be attending.

**region adviser**

- to contact the adviser of the next eligible competitor about participating at the State Leadership Conference.
- to notify the PA FBLA Executive Director/State Chairman of the change before the deadline date published at [www.pafbلا.org/importantdates.php](http://www.pafbلا.org/importantdates.php), which is posted on the PA FBLA web site.

## **Region Procedure**

### **Production Test**

The following procedures must be used:

1. The chapter adviser completes the School-site Test Reservation Form for competitors in this event no later than 3 business days prior to the region's school-site testing window or by the region's deadline for school-site test registration. The school-site test administrator is identified as part of this form. The link to the form is: <https://pafbلا.wufoo.com/forms/mla4cswx1efzqqv/>. The form will become available on November 1.
2. **The local chapter adviser is not permitted to be the school-site administrator.**
3. The PA FBLA Executive Director/State Chairman will email the production tests to the school-site test administrator at each school. The Proctor Instructions, Proctor Script, Proctor Certification Forms, and Student Certification Forms, and any other event-related information will be provided. It is the responsibility of the local chapter adviser to inform the school-site administrator that the tests will be emailed 1-2 days before the region's school-site test window opens.
4. The region adviser, in consultation with the remaining local chapter advisers, must determine the procedure for returning the school-site tests to the region adviser.
5. Calculators, and all other reference materials, are not allowed on the school-site production test.
6. Documents produced for this event must be prepared by the participant without help from the adviser or any other person.

### **Objective Test**

1. A one-hour written objective test will be administered according to the specific RLC procedures determined by the region adviser. The objective test will be based on the areas described in the Competencies section listed above and basic skills knowledge. All participants in this event must report at the event time determined by each region. **If a participant arrives after the objective test has begun, he or she will be admitted to the testing area and will be permitted to take the test in the remaining amount of time for the event. The participant will not receive any additional instructions from the event administrators.**
2. **The participant must comply with the PA FBLA Dress Code which can be found at [www.pafbلا.org/dresscode.php](http://www.pafbلا.org/dresscode.php). If the participant does not comply, the participant will not be admitted to the testing area until he or she is in compliance.**
3. Participants must furnish their own No. 2 pencils and erasers. No other equipment or materials are permitted in this event.

## **State Procedure**

### **Production Test**

The following procedures must be used:

1. The region adviser must submit the names of the RLC eligible winners on the Regional Winners Reporting Form to the PA FBLA Executive Director/State Chairman/State Chairman.

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2. It is the responsibility of the local chapter adviser to complete the School-site Test Request Form which will identify the school-site test administrator. The link to the form is: <https://pafbla.wufoo.com/forms/q10hcwk51exall1/>. The link will become available on December 1; it must be completed no later than January 20 in order for tests to be distributed 1-2 days prior to the start of the testing window, which typically will be February 1.
  3. **The local chapter adviser is not permitted to be the school-site administrator.**
  4. The PA FBLA Executive Director/State Chairman will provide the production testing materials to the test administrator by email. It is the responsibility of the local chapter adviser to make the test administrator aware that he or she is to receive, administer, and return these tests to the PA FBLA Executive Director/State Chairman. A PDF of all student work must be uploaded by the test administrator and received by the deadline posted on the [www.pafbla.org](http://www.pafbla.org) website. Specific instructions regarding the upload will be sent directly to the test administrator. The chapter adviser is to provide no assistance in this process.
  5. If at any time during this process it is determined that the student will not be taking the test, the test administrator or local chapter adviser must notify the PA FBLA Executive Director/State Chairman IMMEDIATELY. The PA FBLA Executive Director/State Chairman will contact the region's next eligible competitor. The test administrator must delete the test materials sent by the PA FBLA Executive Director/State Chairman.
  6. One **continuous** hour will be allowed for the production test at the school testing site. Additional time will be allowed for general directions, equipment set up, and warm up. Problems are weighted according to difficulty and may be completed in any order.
  7. Calculators are not allowed on the school-site test.
  8. No reference materials are allowed.
  9. Documents produced for this event must be prepared by the participant without help from the adviser or any other person.

### **Objective Test**

1. A one-hour written objective test will be administered at the SLC based on the areas described in the Competencies section listed above and basic skills knowledge. All participants in this event must report at the event time listed in the program. **If a participant arrives after the objective test has begun, he or she will be admitted to the testing area and will be permitted to take the test in the remaining amount of time for the event. The participant will not receive any additional instructions from the event administrators.**
2. **The participant must comply with the PA FBLA Dress Code which can be found at [www.pafbla.org/dresscode.php](http://www.pafbla.org/dresscode.php). If the participant does not comply, the participant will not be admitted to the testing area until he or she is in compliance.**
3. At the State Leadership Conference, the chapter adviser must confirm students' participation in the event. Participants who are not confirmed will be disqualified.
4. Participants must furnish their own No. 2 pencils and erasers.
5. No other equipment or materials are permitted in this event.

### **Region and State Judging**

This event will be scored in the following manner:

- 15% objective test score
- 85% production test (school-site test) score

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Judging of the school-site test will be based on the participant's printed copy. A panel of judges will evaluate the documents, and all decisions of the judges are final.

If there is a tie after the combined score, the production test will be used to break the tie. If there remains a tie after the production test, follow the objective test score tiebreaker below.

At the Regional and State Conferences, the following tiebreaker policy will be as follows:

All objective tests will be graded through the online test service. If there is a tie between competitors, the last ten (10) test questions will be compared and the individual/team with the highest number of correct answers will be ranked higher. The process will continue in groups of ten (10) questions until the tie is broken. If, after reviewing the entire test, the tie cannot be broken, the individual/team submitting the test in the least amount of time will be ranked higher.

Tiebreaker implementation examples can be found in this handbook or at [www.pafbla.org/tiebreakers.php](http://www.pafbla.org/tiebreakers.php).

## **Region Awards**

Each region may decide the number and type of awards to be presented at the RLC.

## **State Awards**

The state chapter will present a maximum of ten (10) awards at the State Leadership Conference.

## **National Conference Eligibility**

The first-, second-, third-, and fourth-place award winners at the State Leadership Conference are eligible to attend the National Leadership Conference. Advisers and participants should refer to the latest edition of the National Chapter Management Handbook for official National Leadership Conference event guidelines.

In the event that the first-, second-, third-, or fourth place winner cannot attend, it is the responsibility of the:

**local chapter adviser**

- to contact the PA FBLA Executive Director/State Chairman about the student who will not be attending.

**PA FBLA Executive Director/State Chairman**

- to contact the next eligible award winner about participating at the National Leadership Conference.

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USE THE FOLLOWING METHOD TO DETERMINE THE FINAL  
SCORE FOR THIS COMPETITOR

## Database Design and Applications

Total Points Received on the Production Portion	_____	
Multiplied by	x	.85
Equals Final Score on Production Test .....		(a) _____
Objective Test Score	_____	
Multiplied by	x	.15
Equals Final Score on Objective Test.....		(b) _____
ADD (a) AND (b) FOR FINAL SCORE.....		(c) _____

Names: \_\_\_\_\_

Region: \_\_\_\_\_ School: \_\_\_\_\_

Judge's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Judge's Comments:

VERIFICATION & INITIALS  
(scores checked for accuracy)

☐ Competitive Events Team \_\_\_\_\_

☐ Official Checker \_\_\_\_\_