

FBLA: DATABASE DESIGN AND APPLICATIONS

Competency: Data Definitions/Functions
Tasks
1. Explain the principles of data analysis.
2. Evaluate and compare a variety of database programs for features and functions.
3. Determine when it is appropriate to use a database and identify the benefits derived.
4. Demonstrate correct use of database terminology.
5. Plan, design, and create a database file.
6. Construct database using appropriate inputting, formatting, and editing skills.
7. Set and modify field properties including limit field size, number formats, date/time formats, yes/no formats, validation rules, and input masks.
8. Distinguish between different field types.
9. Define and modify field names and data types.
10. Manipulate a database.
11. Import and export data into and from a database.
12. Save database objects as file types.
13. Use the Help feature of database software.
14. Compact and repair a database.
15. Produce documents integrating word processing, database, spreadsheet, and presentation files.

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Competency: Query Development	
Tasks	
1.	Use the simple query wizard.
2.	Create a query in design view.
3.	Search, sort, index, merge, and manipulate database for specific information.
4.	Filter data (sort, find specific records, and replace).
5.	Create multi-table queries.
6.	Design and create action queries (make-table, update, append, and delete).
7.	Design and create advanced queries (setting top values, creating calculated field, creating function query, and creating parameter query).
8.	Verify accuracy of output.
Competency: Table Relationships--Include Referential Integrity	
Tasks	
1.	Define and create table relationships.
2.	Use table wizard and design view to create a table.
3.	Add records to tables.
4.	Apply the default values, input masks, validation rules, validation text, required fields, and lookup fields to field properties in a table in design view.
5.	Understand the difference between a one-to-one, one-to-many, and many-to-many relationships.
6.	Enforce referential integrity.
7.	Create and modify a multi-table select inquiry.
8.	Save a table, query, and forms as a Web page.
9.	Import/export linked tables.

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Competency: Reports and Forms--Sort, Group, Insert Graphics, Headers, Calculation	
Tasks	
1.	Design, create, save, and modify reports for data output.
2.	Create a report with the Report Wizard.
3.	Enhance reports using formatting features and graphics.
4.	Preview and print a report.
5.	Modify and format report properties (font, style font size, color, and caption).
6.	Use report sections.
7.	Perform grouping and sorting to a report.
8.	Create reports using all types of controls including Active X and calculated totals.
9.	Use advanced report design to create a running summary, insert a date/time control, and use label wizard.
Competency: Form Development	
Tasks	
1.	Design, create, and modify basic forms in database.
2.	Create a form with the form wizard.
3.	Create a form based on a query.
4.	Modify Format Properties.
5.	Enter and delete records using a datasheet or form.
6.	Use the control Toolbox to add controls, move a control, and resize a control.
7.	View and print records in a form.
8.	Use design view to disable the snap to grid feature, display the field list, move, move part of a paired control, align and space controls, add a label or image, and to edit an unbound control.
9.	Create and modify a subform.

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