



# DATABASE APPLICATIONS (29)

## KEY

Regional —2013

*TOTAL POINTS*

\_\_\_\_\_ (450)

*Failure to adhere to any of the following rules will result in disqualification:*

- 1. Contestant must hand in this test booklet and all printouts. Failure to do so will result in disqualification.*
- 2. No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests or facsimile handwritten, photocopied, or keyed) are allowed in the testing area.*
- 3. Electronic devices will be monitored according to ACT standards.*

No more than ten (10) minutes orientation  
No more than 90 minutes testing/production  
No more than ten (10) minutes wrap-up

Do **NOT** open test booklet until instructed to do so.

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*Workplace Skills Assessment Program* competition.



**DATABASE APPLICATIONS**  
**SCORING SHEET**

	Points Possible	Earned
<b>Job 1 - Inventory Table</b>		
Correct field names	30	
Correct data entry (10 points per record)	50	
Sorted in ascending order by product name	10	
Printed using best fit	10	
<b>Total for Job 1</b>	<b><u>100</u></b>	
<b>Job 2 - Sales Table</b>		
Correct field names	15	
Correct data entry (5 points per record)	25	
Sorted by Qty Sold in ascending order	10	
Printed using best fit	10	
<b>Total for Job 2</b>	<b><u>60</u></b>	
<b>Job 3 - Relationship</b>		
One to many relationship printed	20	
<b>Total for Job 3</b>	<b><u>20</u></b>	
<b>Job 4 - Profit Query</b>		
Correct field names	20	
Gross Sales calculated correctly	15	
Product Cost calculated correctly	15	
Profit calculated correctly	15	
Calculated fields displayed in currency format	15	
Sorted by Product ID (ascending order)	10	
Printed using best fit	10	
<b>Total for Job 4</b>	<b><u>100</u></b>	
<b>Job 5 - Order Query</b>		
Correct Fields Name	15	
New Balance calculated correctly	15	
Sorted by Qty Sold (descending)	10	
Printed using best fit	10	
<b>Total for Job 5</b>	<b><u>50</u></b>	
<b>Job 6 - Order Report</b>		
Report format similar to example	25	
Correct columns are included	40	
New field "Order" is included	10	
Order Cost is calculated correctly	25	
Printed in landscape view	20	
<b>Total for Job 6</b>	<b><u>120</u></b>	
<b>Total Points Earned</b>		



### **GENERAL INSTRUCTIONS**

1. Check that you have five test pages.
2. Your name or initials should NOT appear on any work you submit. Substitute your contestant number wherever #99999 appears.
3. If you finish before the end of the testing time, notify the administrator of the contest. Time may be a factor in determining the winner in the event of a tie.
4. When turning in your completed work, place your scoring sheet on top of all of your jobs. Please arrange by job number. Turn in all partial jobs completed.

Professional Business Associates (PBA) has asked you to prepare an inventory listing.



### Job 1

1. Create a table to show Professional Business Associates inventory. Name the table **Inventory #99999**. Use appropriate field names, types, widths and properties considering the data provided. Product ID is the primary field.
2. Enter the following information.

Product ID	Product Name	Cost	In Stock	Minimum	Re-order Qty
AB2987	Hard Drive	24.00	100	150	50
CD4567	1 G Flash Key	15.00	450	450	200
EF3098	RW CD	.26	1000	998	500
GH6749	DVD	1.38	2567	2400	1000
IJ0930	USB Cable	.87	238	237	75

3. Resize columns to best fit, sort by product name alphabetically (ascending) and print the table on one page.

### Job 2

1. Create a second table named **Sales - #99999**. Enter the data as shown. Use Product ID as the Primary Field.

Product ID	Qty Sold	Retail Price
GH6749	56	2.98
CD4567	256	89.95
AB2987	23	77.99
EF3098	556	.99
IJ0930	31	4.99

2. Resize columns to best fit, sort by Qty Sold (ascending), and print table on one page.

### Job 3

1. Connect the primary (first) table to the secondary (second) table in a one to many relationship based on Product ID. Print the relationship ensuring that your contestant number and all fields show on the print.

### Job 4

1. Make a query named **Profit Query #99999**.
  - a. Include the fields Product ID, In Stock, Cost, Qty Sold, and Retail Price.
  - b. Create a calculated field called Gross Sales (Qty Sold \* Retail Price).
  - c. Create another calculated field called Product Cost (Qty Sold \* Cost).
  - d. Create a third calculated field called Profit (Gross Sales – Product Cost).
  - e. All the calculated fields should be formatted in currency with two decimals.
  - f. Sort the report by Product ID (ascending), auto fit the columns and print the query.



### Job 5

1. Make a new query called **Order Query #99999** to determine which items to purchase.
  - a. Include fields Product ID, Product Name, In Stock, Qty Sold, Minimum.
  - b. Make a calculated field called New Balance (In Stock – Qty Sold).
  - c. Sort the query by Qty Sold (descending).
  - d. Best fit the columns and print the query.

### Job 6

1. Open **Inventory #99999** table and add a new field called **Order** with the type Y/N.
2. Using the results of your Order Query manually enter the correct data into the new field.
3. Create a landscaped report called **Order Report #99999** similar to the following example.
  - a. Sort the Report by Product ID (ascending).
  - b. Include the fields Product Name, New Balance, Minimum, Re-order Qty, Order, and Cost.
  - c. Include a new field called **Order Cost** (Re-order Qty \* Cost).
  - d. Note: Print all records, even those not requiring a new order.

#### Order Report #99999

Product ID	Product Name	New Balance	Minimum	Re-order Qty	Order	Cost	Order Cost
AB2987	Hard Drive	77	150	50	<input checked="" type="checkbox"/>	\$24.00	\$1,200.00
CD4567	1 G Flash Key	194	450	200	<input checked="" type="checkbox"/>	\$15.00	\$3,000.00
EF3098	RW CD	444	998	500	<input checked="" type="checkbox"/>	\$0.26	\$130.00
GH6749	DVD	2511	2400	1000	<input type="checkbox"/>	\$1.38	\$1,380.00
IJ0930	USB Cable	207	237	75	<input checked="" type="checkbox"/>	\$0.87	\$65.25



**Job 1 – Inventory #99999**

Product ID	Product Name	Cost	In Stock	Minimum	Re-order Qty
CD4567	1 G Flash Key	\$15.00	450	450	200
GH6749	DVD	\$1.38	2567	2400	1000
AB2987	Hard Drive	\$24.00	100	150	50
EF3098	RW CD	\$0.26	1000	998	500
IJ0930	USB Cable	\$0.87	238	237	75

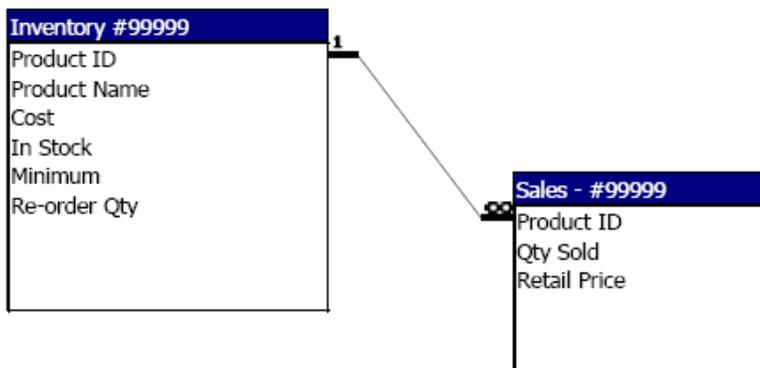
*Note to graders: Cost field can be fixed with two decimals instead of currency. This is acceptable since we told student to determine field types. This will be true of the remaining tables, also.*

**Job 2 – Sales #99999**

Product ID	Qty Sold	Retail Price
AB2987	23	\$77.99
IJ0930	31	\$4.99
GH6749	56	\$2.98
CD4567	256	\$89.95
EF3098	556	\$0.99

**Job 3 - Relationship**

**Relationships for Inventory #99999**



**Job 4 - Profit Query #99999**

Product ID	In Stock	Cost	Qty Sold	Retail Price	Gross Sales	Product Cost	Profit
AB2987	100	\$24.00	23	\$77.99	\$1,793.77	\$552.00	\$1,241.77
CD4567	450	\$15.00	256	\$89.95	\$23,027.20	\$3,840.00	\$19,187.20
EF3098	1000	\$0.26	556	\$0.99	\$550.44	\$144.56	\$405.88
GH6749	2567	\$1.38	56	\$2.98	\$166.88	\$77.28	\$89.60
IJ0930	238	\$0.87	31	\$4.99	\$154.69	\$26.97	\$127.72



**Job 5 - Order Query #99999**

Product ID	Product Name	In Stock	Qty Sold	Minimum	New Balance
EF3098	RW CD	1000	556	998	444
CD4567	1 G Flash Key	450	256	450	194
GH6749	DVD	2567	56	2400	2511
IJ0930	USB Cable	238	31	237	207
AB2987	Hard Drive	100	23	150	77

**Job 6 - Order Report #99999**

*The report should be printed in landscape. The Order field can be displayed as Y/N or check boxes.*

**Order Report #99999**

Product ID	Product Name	New Balance	Minimum	Re-order Qty	Order	Cost	Order Cost
AB2987	Hard Drive	77	150	50	<input checked="" type="checkbox"/>	\$24.00	\$1,200.00
CD4567	1 G Flash Key	194	450	200	<input checked="" type="checkbox"/>	\$15.00	\$3,000.00
EF3098	RW CD	444	998	500	<input checked="" type="checkbox"/>	\$0.26	\$130.00
GH6749	DVD	2511	2400	1000	<input type="checkbox"/>	\$1.38	\$1,380.00
IJ0930	USB Cable	207	237	75	<input checked="" type="checkbox"/>	\$0.87	\$65.25