UNIVERSITY INTERSCHOLASTIC LEAGUE

UIL

Computer Applications

INVITATIONAL B

2022

DO NOT OPEN YOUR TEST UNTIL YOU ARE TOLD TO BEGIN.
DO NOT LEAVE THE ROOM UNTIL TIME IS CALLED.

2022 UIL Computer Applications Invitational Test B

General test instructions: Follow instructions to create printouts for this contest. When time is called, printouts will be graded. Calibri 12-point font must be used for Excel and Word documents, but Access default font size is acceptable for database reports.

I. DATABASE WITH REPORT   Maximum 150

A. Create a database named **InvB**.

B. In design view, create a table named **Inventory** with the field specifications on the right and with no primary key.

C. In datasheet view, enter the data below and save the table. *(Note: columns shown without data will be populated by an update query.)*

Field Name	Data Type	Description (Optional)
Part Number	Short Text	6 characters
Description	Short Text	20 characters
Cost	Number	double, standard, 2 decimals
Selling Price	Number	double, standard, 2 decimals
Beginning Inventory	Number	long integer, standard, no decimals
Number Purchased	Number	long integer, standard, no decimals
Number Sold	Number	long integer, standard, no decimals
Ending Inventory	Number	long integer, standard, no decimals
Total Sales	Number	double, standard, 2 decimals

Part Number	Description	Cost	Selling Price	Beginning Inventory	Number Purchased	Number Sold	Ending Inventory	Total Sales
	Unicycles	18.63	70.05	622	200	583		
	Clown Shoes	5.83	21.92	876	400	763		
	Rainbow Wigs	10.25	38.54	1,154	1,000	1,438		
	Juggling Balls	0.92	3.46	4,862	2,000	5,283		
	Rubber Chickens	0.89	3.35	8,700	14,000	16,283		

D. Create an update query in design view to update the following fields.
1. Update **Part Number** by concatenating the following.
    a. The left 2 characters of the **Description** field.
    b. The right 2 characters of the **Cost** field.
    c. The left 2 characters of the **Number Sold** field.
2. Update **Ending Inventory** by adding **Beginning Inventory** and **Number Purchased** then subtracting **Number Sold**.
3. Update the **Total Sales** field by multiplying **Number Sold** times **Selling Price**.
4. Run the query until all fields are updated. Save the query as **UpdQry**.

E. Create a report in landscape orientation with 1" margins and the following specifications.
1. Use all fields from the **Inventory** table.
2. Group by **Cost** and use grouping interval as 10s.
3. Sort by **Description** in ascending order.
4. Calculate the sum of **Cost**, **Selling Price** and **Total Sales**.
5. Use stepped layout and landscape orientation.
6. Use the following title: **Inventory**

F. In design view, make the following modifications.
1. Insert the following header top aligned with the title and right aligned on the right margin, replacing 99999 with your contestant number: **(99999)-InvB-1**
2. Title should be left aligned on left margin.
3. Wrap the following column headings to two lines: **Part Number**, **Selling Price**, **Beginning Inventory**, **Number Purchased**, **Number Sold** and **Ending Inventory**.
4. Left justify **Cost by 10s**, **Description** and **Part Number** column headings, detail lines and Sum label, and right justify all other column headings, detail data and summary values.
5. Make everything in report header, page header, group header and report footer black, boldface type, and everything else in plain, black type.
6. Be certain nothing is truncated or wrapped.

G. Save your report and print it on one page.

H.   The report should have the following appearance. *(Colons represent missing data, values may be incorrect and shading and borders are ignored in grading.)*

Inventory

Cost by 10s	Description	Part Number	Cost	Selling Price	Beginning Inventory	Number Purchased	Number Sold	Ending Inventory	Total Sales
0 - 10									
	Clown Shoes	Cl8308	5.83	21.92	876	400	763	513	16,725.57
	:	:	:	:	:	:	:	:	:
Summary for 'Cost' =	0.89 (3 detail records)								
Sum			7.64	28.73					89,489.96
	:	:	:	:	:	:	:	:	:
Grand Total			36.52	137.32					185,748.93

I.   With the **Inventory** table open in the datasheet view, select Word Merge from the Export block of the External Data ribbon and click to create a new document and link the data to it.

II.   DOCUMENT WITH MERGED DATA   MAXIMUM 200

A.   Create a modified block letter in Calibri 12-point font with indented paragraphs, mixed punctuation and the following specifications:
1.   Use today's date.
2.   Inside address: Mr. Ben Strummen, Clown City Supply, 943 Sky Dr., Denton, TX 76208
3.   Use the following salutation: Dear Mr. Strummen
4.   Use the following subject line in all caps: INVENTORY RECAP
5.   Use the following header right justified on the right margin and ½" from the top of the page, replacing 99999 with your contestant number: (99999)-InvB-2
6.   Use the following paragraphs for the body, merging data from **Inventory** table created in **Part I** with the following specifications.

Sales for the year have already surpassed last year. Below is a list of the large-ticket items and their total sales for your review.

**With your cursor on the line between Paragraph 1 and 2, set a left tab at ½"
and set a right tab at 2.8" using dot leaders.
Insert merge code for Description field at the first tab. Insert merge code for Part Number field at the next tab.
After Part Number field, insert Next Record from Rules icon of Write & Insert Fields block of Mailings ribbon.
Copy the entire line and replicate four more times so that five records will be merged.
Delete the Next Record indication of the fifth record.
Select all five rows with merged data and click on Columns in the Page Setup block of the Layout ribbon
and scroll down to select 2 to show the merged data in 2 columns.**

The following formulas were used in building this model.

Part Number: **[Insert Part Number formula from the UpdQry in Part I.]**

Ending Inventory: **[Insert Ending Inventory formula from the UpdQry in Part I.]**

Total Sales: **[Insert Ending Total Sales formula from the UpdQry in Part I.]**

7.   Leave one blank line between Paragraph 1 and merged data and between merged data and Paragraph 2.
8.   Use the following complimentary close: Sincerely yours
9.   Use the following sender's name and title on one line: Art Tillery, Sales Director
10. Use the following reference initials: uil
11. Save your document as **Printout 2**.
12. Click to finish and merge to edit individual documents.
13. Save your document as **Printout 2-merged** and print on one page in portrait orientation.

Inventory

Cost by 10s	Description	Part Number	Cost	Selling Price	Beginning Inventory	Number Purchased	Number Sold	Ending Inventory	Total Sales
0 - 10									
	Clown Shoes	Cl8376	5.83	21.92	876	400	763	513	16,724.96
	Juggling Balls	Ju9252	0.92	3.46	4,862	2,000	5,283	1,579	18,279.18
	Rubber Chickens	Ru8916	0.89	3.35	8,700	14,000	16,283	6,417	54,548.05
Summary for 'Cost' = 0.89 (3 detail records)									
Sum			7.64	28.73					89,552.19
10 - 20									
	Rainbow Wigs	Ra2514	10.25	38.54	1,154	1,000	1,438	716	55,420.52
	Unicycles	Un6358	18.63	70.05	622	200	583	239	40,839.15
Summary for 'Cost' = 18.63 (2 detail records)									
Sum			28.88	108.59					96,259.67
Grand Total			**36.52**	**137.32**					**185,811.86**

Today's Date

Mr. Ben Strummen
Clown City Supply
943 Sky Dr.
Denton, TX 76208

Dear Mr. Strummen:

INVENTORY RECAP

Sales for the year have already surpassed last year. Below is a list of the large-ticket items and their total sales for your review.

Unicycles .... Un6358   Juggling Balls Ju9252
Clown Shoes .... Cl8376   Rubber Chickens Ru8916
Rainbow Wigs................... Ra2514

The following formulas were used in building this model.
Part Number: Left([Description],2) & Right([Cost],2) & Left([Number Sold],2)
Ending Inventory: [Beginning Inventory]+[Number Purchased]-[Number Sold]
Total Sales: [Number Sold]*[Selling Price]

Sincerely yours,

Art Tillery, Sales Director

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2022 UIL Computer Applications Invitational Test B – Tiebreaker – Score Sheet

GENERAL INSTRUCTIONS: All contestants take the tiebreaker component of the test, but it is only to be scored if a tie occurs in the top six places.

I. **CALCULATE GROSS WORDS PER MINUTE**:
   A. Circle all errors on the tied contestants' papers.
   B. Determine the gross words per minute.
   1. Find the number of words typed to the right of the last complete line typed by contestant.
   2. Add the number of words in the last line if it is incomplete to the tally.
   3. Divide the number by five to get the gross words per minute.
   4. For example, if a contestant typed twenty lines plus seven words on the next line, add the number out to the right of the completed line plus seven.
   5. Divide by five to get gross words per minute.

II. **DETERMINE THE GROSS WORDS PER MINUTE** _____ _____ _____

III. **DEDUCT ONE POINT FOR EACH ERROR** _____ _____ _____

IV. ✔ **TOTAL - GROSS WPM TYPED LESS ERRORS** _____ _____ _____

V. **ADD FIVE BONUS POINT FOR EACH SUCCESS**

FORMAT	Top margin 1½"			
	Left margin 1"			
	Right margin 1"			
	Bottom margin 1 – 1 ½"			
	Everything in Calibri 12-point font			
TITLE	Title in boldface type			
	Umlaut accent shown on **KÖSEM**			
	Title centered			
	3 blank lines between title and body			
BODY	Body of report single spaced			
	Paragraphs not indented			
	Double spaced between paragraphs			
¶ 1	Umlaut accent shown on Kösem			
¶ 2	Add five points for each umlaut shown on Kösem **max 10**			
¶ 5	Umlaut accent shown on Kösem			
✔ **TOTAL - BONUS POINTS**				
✔ **GRAND TOTAL-WPM PLUS BONUS POINTS**				
GRADERS' INITIALS				

KÖSEM SULTAN

Kösem Sultan (c. 1589-1651) was an Ottoman sultana and advisor who essentially ruled the | 17
Ottoman Empire from 1623 to 1632 and then later from 1640 until her assassination in 1651. | 33
She became one of the most powerful women in Ottoman history as well as a notorious | 49
character during the era known as the Sultanate of Women. | 59

Kösem was of Greek descent whose maiden name was Anastasia, the daughter of a Greek | 74
Orthodox priest on Tinos Island. At the age of 15, she was kidnapped and bought as a slave by | 93
a high-ranking Ottoman official. Noting her beauty, Kösem was sent to Constantinople to join | 107
a group of other slave girls marked by their striking appearance and intelligence to be | 122
trained in the harem of Sultan Ahmed I as an imperial lady of the royal court. | 138

She rose to power and influenced the politics of the Ottoman Empire when she became | 154
Haseki Sultan as the favorite companion of Ottoman Sultan Ahmed I. She became Valide | 168
Sultan as mother of Murad IV and Ibrahim and grandmother of Mehmed IV. | 181

She used her power and the funds she received as favorite companion to establish charities | 196
for the poorest of people. She would leave the palace in disguise every year in the Islamic | 213
month of Rajab to personally coordinate the release of imprisoned debtors and other offenders, | 227
excluding murderers, by paying their debts or restitution for their crimes. She fed all of | 242
Istanbul's starving people at soup kitchens she began. She was fond of saying, "I show my | 258
anger to the palace, my milk to the public." She financed irrigation works in Egypt and | 274
provided relief for the poor people of Mecca. | 282

Kösem was legendary for freeing her slaves after only three years of service. She gained | 297
immense prominence and respect among her subjects during her reign as regent. She achieved | 311
unparalleled influence over political decision-making in her role as protector of the Ottoman | 324
dynasty. | 325

Her verdicts had such an impact that noblemen in her empire vowed that no woman would | 341
ever be so influential again after she died. Her death in 1651 marked the end of a period of | 360
prominence for women in the Sultanate of Women. | 368