

BAN 410 Term Project Spring 2024

The BAN410 Term Project consists of two programs. Instructions for the two programs are shown below.

Program 1

This program will require you to use the ZNAUS24_PRODUCTS database table to provide a list of products matching search parameters entered by a user. Your input screen should consist of two checkboxes and a search textbox, and should look like this:

Search for a product name: ☐

Search for a product category: ☐

Enter Search Term:

Users have the choice of checking the box to search based on a product name, or checking the box based on a product category (for this program, you can assume a user will never check both boxes). Once the user checks one of the boxes, they will enter a search term to provide either the name of a product or product category. When the user checks the product category box and enters a product category listed in the database table for the search term, the program will display the following report (in this example, CHAIRS was entered for the search term):

Product Name	Product Category	Depth	Height	width	Price
HENRIKSDAL	CHAIRS	58	97	51	\$ 225,00
URBAN	CHAIRS	48	79	45	\$ 225,00
STEFAN	CHAIRS	49	90	42	\$ 85,00
GUNDE	CHAIRS	45	78	41	\$ 30,00
HEMNES	CHAIRS	32	65	85	\$ 295,00
MARIUS	CHAIRS	0	0	40	\$ 25,00
EKERA	CHAIRS	73	75	70	\$ 695,00
EKENAB	CHAIRS	78	90	86	\$ 995,00
ERNFRID	CHAIRS	51	46	48	\$ 145,00
SVENBERTIL	CHAIRS	0	39	0	\$ 100,00
HATTEFJALL	CHAIRS	68	0	68	\$ 1045,00
MALINDA	CHAIRS	38	0	0	\$ 25,00

When the user checks the product name box, and enters the name of a product in the database table for the search term, the program will display the following report (in this example LIATORP was entered for the search term):

Product Name	Product Category	Depth	Height	width	Price
LIATORP	SIDEBOARDS, BUFFETS & CONSOLE TABLES	0	75	37	\$ 445,00

If the user attempts to execute the program without checking one of the boxes, the following error message (and only the error message) should be displayed:

Please check a box to search for a product name or product category

If the user attempts to execute the program without entering anything in the search term box, the following error message (and only the error message) should be displayed:

Please enter a search term

Finally, if the user checks one of the boxes, and enters a search term, but no records matching the search term is found in the tables, the following error message (and only the error message) should be displayed:

No matching records found

Program 2

This program will require you to use the ZNAUS24_PRODUCTS and ZNAUS24_ORDERS database tables to provide a list of product sales orders matching search parameters entered by a user. Your input screen should consist of two search textboxes, and should look like this:

Enter category or ANY:	<input type="text"/>
Enter max price or ANY:	<input type="text"/>

For the search boxes, the user has the option of entering the name of a product category, or the word ANY (which will display any product category), and a maximum product price, or ANY (which will display

any product price). If the user enters ANY for both search boxes, all records in the joined tables will be displayed in a report matching the one shown below (unit cost is equal to 0.25 of the unit price listed in the products table and order cost = unit cost * #sold):

Product Name	Product Category	Unit Price	# Sold	Order Revenue	Order Cost	Order Profit
FLYTTA	TROLLEYS	537,00	3	1.611,00	402,75	1.208,25
TROFAST	CHILDREN'S FURNITURE	50,00	5	250,00	62,50	187,50
LYCKSELE	BEDS	495,00	1	495,00	123,75	371,25
MYDAL	BEDS	795,00	2	1.590,00	397,50	1.192,50
LIATORP	SIDEBOARDS, BUFFETS & CONSOLE TABLES	445,00	2	890,00	222,50	667,50
INGOLF	BAR FURNITURE	395,00	4	1.580,00	395,00	1.185,00
HENRIKSDAL	CHAIRS	225,00	2	450,00	112,50	337,50
URBAN	CHAIRS	225,00	4	900,00	225,00	675,00
KIVIK	SOFAS & ARMCHAIRS	3800,00	1	3.800,00	950,00	2.850,00
STEFAN	CHAIRS	85,00	2	170,00	42,50	127,50
STEFAN	CHAIRS	85,00	1	85,00	21,25	63,75
STEFAN	CHAIRS	85,00	4	340,00	85,00	255,00
URBAN	CHAIRS	225,00	2	450,00	112,50	337,50
URBAN	CHAIRS	225,00	4	900,00	225,00	675,00
TROFAST	CHILDREN'S FURNITURE	50,00	4	200,00	50,00	150,00
TROFAST	CHILDREN'S FURNITURE	50,00	2	100,00	25,00	75,00

If the user enters a product category in the database for the product category search box, and ANY for the maximum product price, the resulting report will show only those records with a matching product category of any price in a report that should look like this (in this example CHAIRS was entered for the product category and ANY was entered for the max price):

Product Name	Product Category	Unit Price	# Sold	Order Revenue	Order Cost	Order Profit
HENRIKSDAL	CHAIRS	225,00	2	450,00	112,50	337,50
URBAN	CHAIRS	225,00	4	900,00	225,00	675,00
STEFAN	CHAIRS	85,00	2	170,00	42,50	127,50
STEFAN	CHAIRS	85,00	1	85,00	21,25	63,75
STEFAN	CHAIRS	85,00	4	340,00	85,00	255,00
URBAN	CHAIRS	225,00	2	450,00	112,50	337,50
URBAN	CHAIRS	225,00	4	900,00	225,00	675,00

If the user enters both a product category and maximum price, the resulting report will show all sales orders with a matching product category, but less than the maximum price entered (in this example CHAIRS was entered for the product category and 90 was entered for the maximum price):

Product Name	Product Category	Unit Price	# Sold	Order Revenue	Order Cost	Order Profit
STEFAN	CHAIRS	85,00	2	170,00	42,50	127,50
STEFAN	CHAIRS	85,00	1	85,00	21,25	63,75
STEFAN	CHAIRS	85,00	4	340,00	85,00	255,00

If at any time the user enters any combination of inputs screen entries which matches no records in the database tables, the following message (and only the message) should appear on the screen.

No records found

When your programs are complete, make sure they are both activated in the SAP system and paste text versions on the term project assignment page in Canvas.