

# Database Cosmetics

There is Desktop Application that represents the work of Cosmetics` Shop. You have an info about every Product (Price, Quantity, Color, Finish, Collection this product is from, shops where you can buy it).

There is info about shops (address, list of products, list of workers) and workers.

Technologies: C#, Windows Form App, DBMS - MS SQL Server Management Studio.

## Usage

There is a start menu where you can chose “Data” for work with database and “Data Filters” for work with some filters and finding info/lists of products.



In Data you see all the tables that you can change. You have to submit your changes by clicking “Save” otherwise data won’t be saved. If you wanna delete some records, you have to pick it and click “Delete”. All you highlighted records will be deleted, but you still have to Save it. You’ll receive notifications about wrong operations (wrong type of data, errors etc.)

Form1

Product	Finish	Store	Stock	Worker	Position	Type
	Id		Price		Quantity	Coll ^
▶	1		100		1	1
	10		120		3	5
	11		300		10	11
	18		600		5	11
	20		2333		22	3
	21		12		1	1
	24		10		120	3
	25		200		12	5
	26		90		100	11
	27		34		3	11
	28		2		3	3

Delete

Save

Form1

Product	Finish	Store	Stock	Worker	Position	Type
	Id		Price		Quantity	Coll ^
	29		450		12	3
	30		45		2	11
	31		39		23	5
	32		69		3	5
	33		89		90	1
	34		149		8	1
▶	35		29		8	3
	36		35		2	5
	37		67		4	11
!			23		3	
*						

Delete

Save



Form1

Product	Finish	Store	Stock	Worker	Position	Type
	Id	Price	Quantity	Coll		
	29	450	12	3		
	30	45	2	11		
	31	39	23	5		
	32	69	3	5		
	33	89	90	1		
	34	149	8	1		
▶	35	29	8	3		
	36	35	2	5		
	37	67	4	11		

**Delete**

**Save**

**Danger**

You wanna delete selected rows from ALL the tables. Are you sure?

OK

Form1

Product	Finish	Store	Stock	Worker	Position	Type
	Id	Price	Quantity	Coll		
	28	2	3	3		
	29	450	12	3		
	30	45	2	11		
	31	39	23	5		
	32	69	3	5		
			90	1		
			8	1		
			8	3		
			2	5		
			4	11		
		23	n			

**Delete**

**Save**

Wrong input! (in Products)

OK

Form1

Product	Finish	Store	Stock	Worker	Position	Type
	lectionId	CosmTypeId	ColorId	FinishId		
		5	1	3		
		4	3	2		
				4		
				7		
				1		
				2		
				3		
		1	1	5		
		3	1	7		
		7	5	3		
			-3			

Wrong input

Bad index/wrong input. Changes won't be saved.

OK

Delete

Save

In the Data Filters Unit, you can find some records after input some properties.

Form2

Find products that have  color in  store

Find  that have collection:  color:  type:  finish:

Find  that are  store

Find  that are  store

Find  that are   stores

Find products with price between  and

Find stores, that have all products of type

Form2

Find products that have Red color in NYX store OK

Find Products that have collection: Bare with me color: Red type: Lipstick finish: Lipstick OK

Find  that are  store OK

Find  that are   stores OK

Find products with price between  and  OK

Find stores, that have all products of type Lipstick OK

	Id	Price	Quantity	ColorId	CollectionId	CosmTypeId	Finish
▶	21	12	1	1	1	1	1
*							

Form2

Find products that have Blue color in NYX store OK

Find Products that have collection: Revolution color: Blue type: Lipstick finish: Matt OK

Find  that are  store NYX OK

Find  that are   stores OK

Find products with price between  and  OK

Find stores, that have all products of type Lipstick OK

	Id	Price	Quantity	ColorId	CollectionId	CosmTypeId	Finish
▶	27	34	3	3	11	1	3
*							



Form2

Find products that have Blue color in EVA store OK

Find Products that have

collection: Revolution

color: Blue

type: Lipstick

finish: Matt

OK

Find CosmType that are not in store EVA OK

Find Finish that are more than in only in less than in 23 stores OK

Find products with price between  and  OK

Find stores, that have all products of type Lipstick OK

	Id	Name
▶	1	Lipstick
	2	Foundation
	3	Blush
	5	Mascara
*		

Form2

Find products that have Blue color in EVA store OK

Find Products that have

collection: Revolution

color: Blue

type: Lipstick

finish: Matt

OK

Find CosmType that are not in store EVA OK

Find Finish that are  23 stores OK

Find products with price between -3 and 1 OK

Find stores, that have all products of type Lipstick OK

	Id	Name
▶	1	Lipstick
	2	Foundation
	3	Blush
	5	Mascara
*		

Form2

Find products that have Blue color in EVA store OK

Find Products that have

collection: Revolution

color: Blue

type: Lipstick

finish: Matt

OK

Find CosmType that are not in store EVA OK

Find Finish that are   stores OK

Find products with price between 0 and 1 OK

Find stores, that have all products of type Lipstick OK

	Id	Name
▶	1	Lipstick
	2	Foundation
	3	Blush
	5	Mascara
*		

Error

Wrong input!

OK

# Tables

## Products

Id	int
Price	int
Quantity	int
CollectionId	int
CosmTypeId	int
ColorId	int
FinishId	int

## Stores

Id	int
Name	varchar(50)
Address	varchar(50)

## Stock

Id	int
ProductId	int
StoreId	int
Quantity	int

## Colors

Id	int
Name	varchar(50)

## Finishes

Id	int
Name	varchar(50)

## Collections

Id	int
Name	varchar(50)
Info	varchar(50)

## CosmTypes

Id	int
Name	varchar(50)

### Workers

Id	int
Name	varchar(50)
StoreId	int
PositionId	int

### Positions

Id	int
Name	varchar(50)

