

Search data from Database

In this example we will create search form and use it to find data from "Medical equipment.db" database with selected criteria.

```
base := "Medical equipment.db"
```

Database name

```
manu := "SELECT name FROM 'manufacturer' ORDER BY name ASC"
```

```
eqtype := "SELECT type FROM 'equipment_type' ORDER BY type ASC"
```

```
aptype := "SELECT type FROM 'application_type' ORDER BY type ASC"
```

```
eqname := "SELECT name FROM 'product' ORDER BY name ASC"
```

Query creation for
combo box data

```
col := ["Product" "Description" "Stock" "Manufacturer" "Adress" "City" "Contact"]
```

```
stv := ["" "" "" "" "" "" ""]
```

```
tt := table create(stv , col)
```

Creation
of empty
table

```
w := widget(0 , "Medical equipment")
```

Create form and
set it size

```
set size(w , 660 , 410)
```

```
tab := table widget(w , tt)
```

```
set pos(tab , 0 , 200)
```

```
set size(tab , 660 , 210)
```

Use created table
as a form table

```
g1 := group box(w , "Search Box")
```

```
set pos(g1 , 140 , 20)
```

```
set size(g1 , 400 , 180)
```

Create group box
and set his
position and size

```
l1 := label(w , "Select Vendor")
```

```
set pos(l1 , 160 , 40)
```

```
li1 := combo box(w , database query(base , manu))
```

```
set pos(li1 , 160 , 60)
```

Create label
'Select Vendor'
and appropriate
combo box

Set position for
created elements

```
l2 := label(w , "Equipment Type")
```

```
set pos(l2 , 160 , 90)
```

```
li2 := combo box(w , database query(base , eqtype))
```

```
set pos(li2 , 160 , 110)
```

Create label
'Equipment Type'
and appropriate
combo box

Set position for
created elements

```
l3 := label(w , "Application Type")
```

```
set pos(l3 , 350 , 40)
```

```
li3 := combo box(w , database query(base , aptype))
```

```
set pos(li3 , 350 , 60)
```

Create label
'Application Type' and
appropriate combo box

Set position for created
elements

```
l4 := label(w , "Equipment")
```

```
set pos(l4 , 350 , 90)
```

```
li4 := combo box(w , database query(base , eqname))
```

```
set pos(li4 , 350 , 110)
```

Create label 'Equipment'
and appropriate combo
box

Set position for created
elements

```
b := button(w , "Search")
```

```
set pos(b , 300 , 160)
```

Create button 'Search'

Set position of button

Set search criteria and press Search button to find data in database that satisfy it.

Search Box

Select Vendor	Application Type
Manufacturer 1 ▾	Drug Discovery ▾
Equipment Type	Equipment
Chemicals ▾	Anesthesia trolley ▾

Search

Product	Description	Stock	Manufacturer	Adress	City	Contact
---------	-------------	-------	--------------	--------	------	---------

```
on event(b , onSub(0))
```

Define what to do on Search button press,
b - button variable created earlier,
onSub() - custom function

Following code define custom function onSub() that will be used when search button is pressed
qq - query string that will be used to search data from database
rezVec - table of results that satisfy query

```
onSub( )
```

```
{  
1 qq := "SELECT product.Name as 'Product', product.Description, product.Stock, "  
2 qq += "manufacturer.Name as 'Manufacturer', manufacturer.Adress, "  
3 qq += "manufacturer.City, manufacturer.Contact FROM product INNER JOIN "  
4 qq += "manufacturer ON manufacturer.ID = product.ManID INNER JOIN "  
5 qq += "equipment_type ON equipment_type.ID = product.eqTypeID INNER JOIN "  
6 qq += " application_type ON application_type.ID = product.appTypeID WHERE "  
7 qq += "product.Name = " + widget value(li4) + " AND manufacturer.Name = "  
8 qq += widget value(li1) + " AND equipment_type.Type = " + widget value(li2)  
9 qq += " AND application_type.Type = " + widget value(li3) + ""  
10 rezVec := database query("Medical equipment.db" , qq)  
if(rezVec != "")  
11 {  
1 set widget value(tab , rezVec)  
}  
else  
12 {  
1 set widget value(tab , tt)  
}  
}
```