# Tasks for LINQ module

# General information

You will need to modify the demo application. The required source code is in Task.zip file.

Modification is carried out according to the following rules:

* Create a new method in the LinqSamples class with the name LinqXXX for each task. XXX is the number in tasks order.
* Specify Category, Title and Description attributes for each method.
* The created method must contain required initialization, requested LINQ query itself and result output.
* You can check the result by running the application (F5) and viewing the result on form.

# Tasks.

1. Get a list of all customers whose total turnover (the sum of all orders) exceeds some value of X. Demonstrate the execution of the query with different X (think whether you can do that without copying the query several times)
2. Make a list of suppliers located in the same country and the same city for each client. 2 queries are required here: using grouping and without.
3. Find all customers who have orders that exceed the sum of X.
4. Get a list of customers including the month of the year they became clients (consider client first order month as a required date).
5. Do the previous task, but get the list sorted by year, month, customer turnover (from the maximum to the minimum), and the client's name.
6. Specify all customers who have a non-digital postal code, or the region is not filled, or the operator code is not specified in the phone (for simplicity, consider that this means "there are no round brackets at the beginning").
7. Group all products by category, inside - by stock, within the last group sort by cost.
8. Group the goods into groups "cheap", "average price", "expensive". The boundaries of each group set yourself.
9. Calculate the average profitability of each city (the average amount of the order for all customers from a given city) and the average intensity (the average number of orders per customer from each city).
10. Make the average annual activity statistics of clients by month (excluding the year), statistics by year, by year and by month (when one month in different years has its own value).