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высшего образования «Национальный исследовательский ядерный
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Институт интеллектуальных кибернетических систем
Кафедра №42 «Криптология и кибербезопасность»

Отчёт о лабораторной работе №13
по дисциплине "Наука о данных"

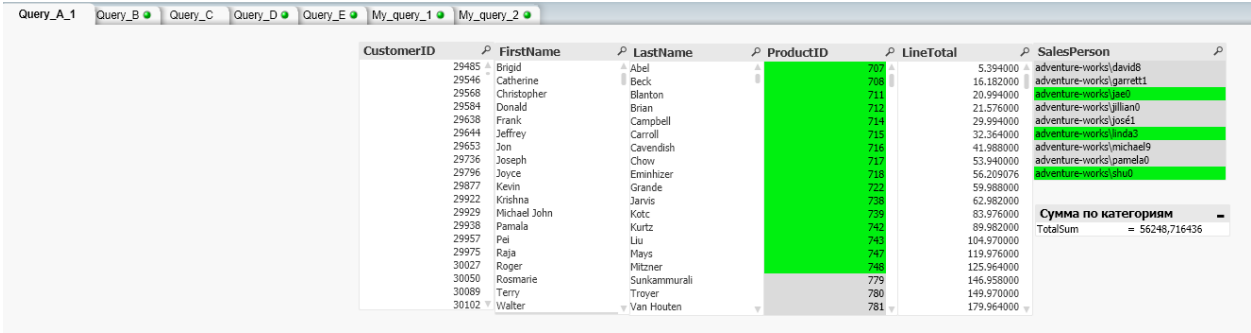
Выполнила студентка группы Б17-505:
Худоярова А.М.

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A.

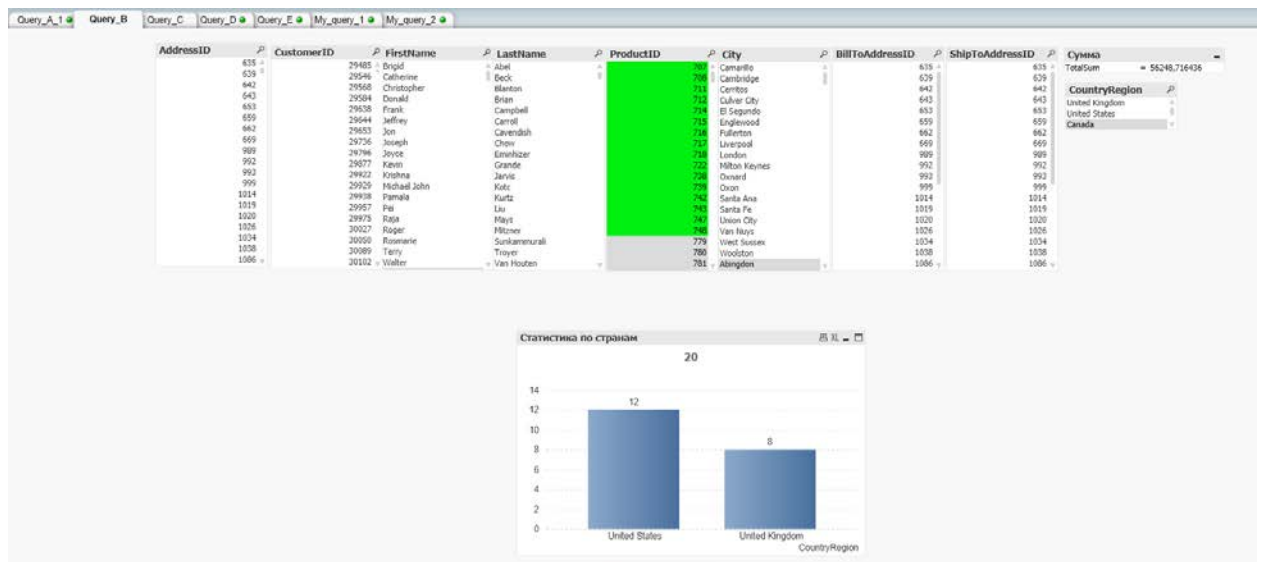
Report about income from sales by product, client and sales person. Please mind discounts. Also mind that for some combinations of values in these dimensions there are no sales at all, so create two versions of queries with and without zero values.



CustomerID	FirstName	LastName	ProductID	LineTotal	SalesPerson
29485	Brigid	Abel	767	5.394000	adventure-works\david8
29546	Catherine	Beck	798	16.182000	adventure-works\garrett1
29568	Christopher	Blanton	711	20.994000	adventure-works\jane
29584	Donald	Brian	712	21.576000	adventure-works\jillian0
29638	Frank	Campbell	714	29.994000	adventure-works\josé1
29644	Jeffrey	Carroll	715	32.364000	adventure-works\linda3
29653	Jon	Cavendish	716	41.988000	adventure-works\michael9
29736	Joseph	Chow	717	53.940000	adventure-works\pamela0
29796	Joyce	Eminhizer	718	56.209076	adventure-works\shuo
29877	Kevin	Grande	722	59.988000	
29922	Krishna	Jarvis	728	62.982000	
29929	Michael John	Kotc	739	83.976000	
29938	Pamela	Kurtz	742	89.982000	
29957	Pai	Liu	743	104.970000	
29975	Raja	Mays	747	119.976000	
30027	Roger	Mitner	748	125.964000	
30050	Rosmarie	Sunkammurali	779	146.958000	
30089	Terry	Troyer	780	149.970000	
30102	Walter	Van Houten	781	179.964000	
				Сумма по категориям	
				TotalSum	= 56248,716436

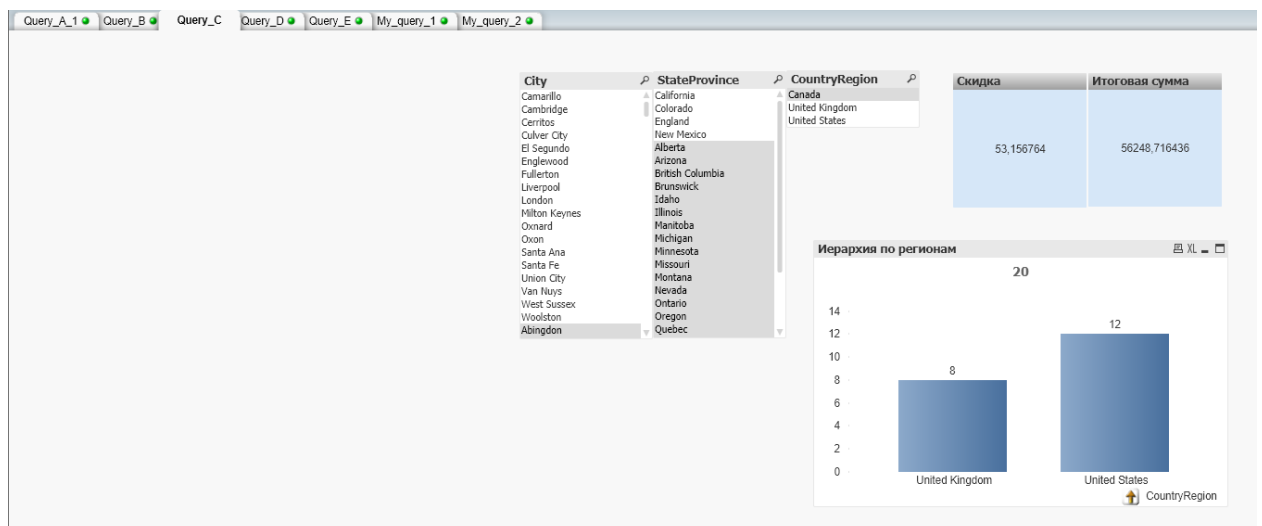
B.

Report about income from sales by product, client and country (region) for billing, shipping and client residency as they can be different. Is it case according our data? But you should generalize in any case. Please mind discounts. You should include in that report only data that supported by sales (so no zero entries except discounted price is zero)



C

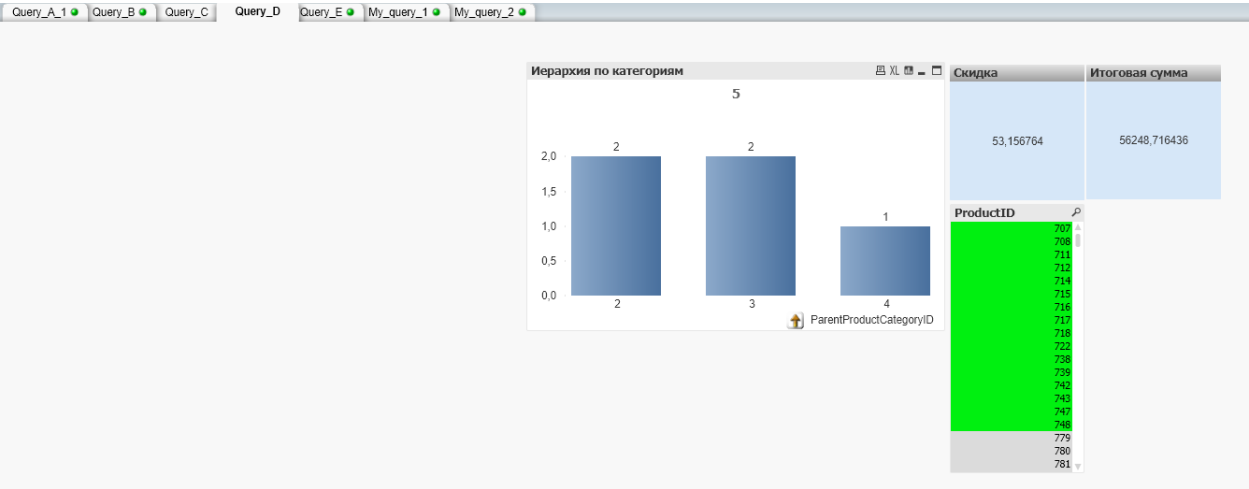
Report about income from sales and provided discounts by location in form of hierarchy city>state/province>country/region. In that report you can rely on unique geographical names, but in general it is not the case. Think about how to solve that task in case that there is a possibility of existence of multiple cities in the same province with the same name. For big cities someone would need more detailed report that can include city districts, solve this task for extra points.



D

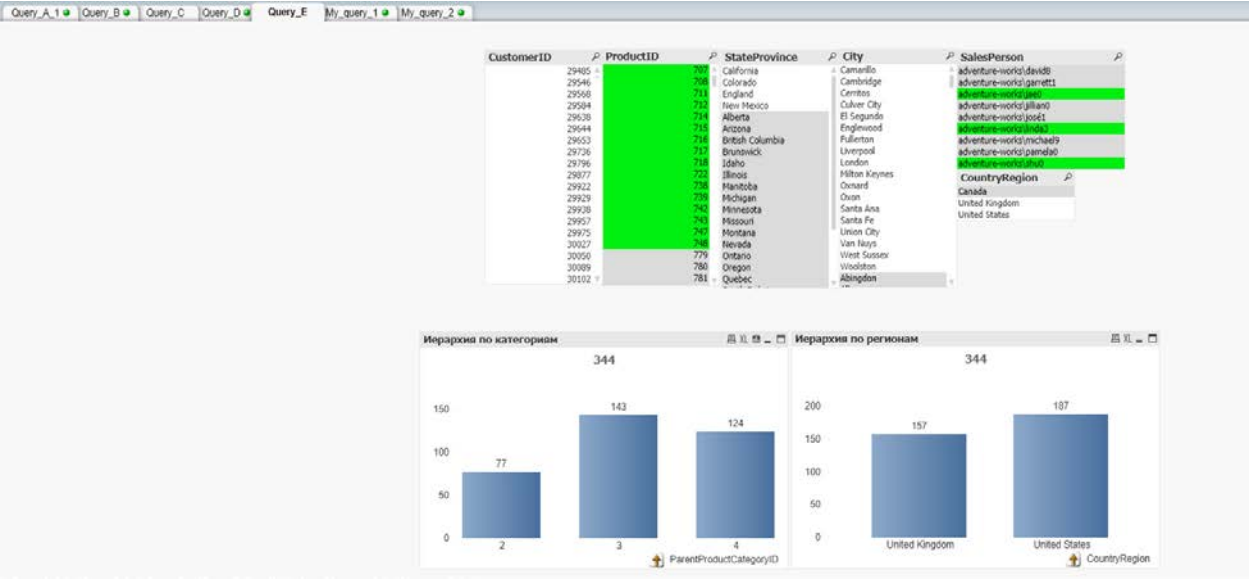
Report about income from sales and provided discounts by product and hierarchy of product categories (high level category-> next level category->...->low level category->product). Please mind that some products can be outside (any) category or be only partially categorized (be not in low level of hierarchy). You can rely on you data to solve to solve this task (especially on that how much subcategories in

the current data set), but try to think how to solve this task in general (with arbitrary category tree).



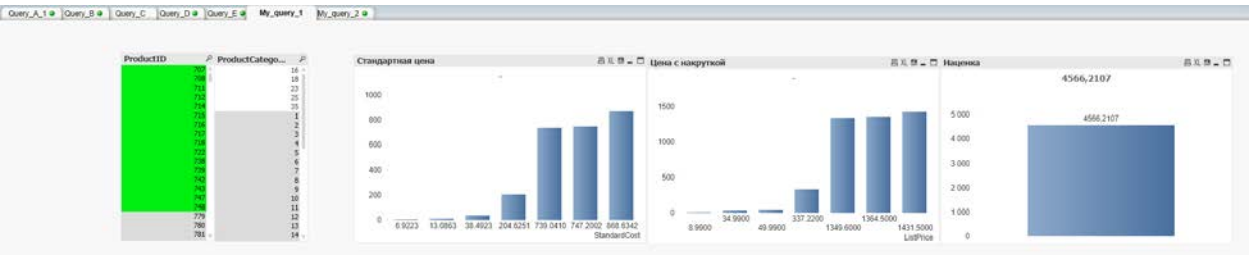
E

Create integral report on number of product sales by product, client, sales person and hierarchy of regions.



Запрос 1.

Получение стандартной цены, цены в прайс – листе и наценки. Можно использовать для анализа выгодности продукта: чем больше наценка, тем больше доход от него.



Запрос 2.

Вывод, сколько продаж по продавцам. Можно использовать для формирования акций.

