Paper Title

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ABSTRACT

300 word description of the project

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1 INTRODUCTION

• Use case 1: Keyword Query

A data scientist wants to analyze the impact of food cost inflation on food consumption. Initially The user decides to start the search with a keyword-query $Q_0 = (\{\text{``food''}, \text{``consumption''}\}, k = 10)$. The search engine returns Table 1 which contains data from year 1990 to 2009 about "Per Capita Consumption of Principal Foods (in pounds)". The user decides to keep Table 1 for the study and continue to search for other relevant tables.

• Use case 2: Join Query Table 1 is a good first result as it contains a complete list of the main food types, however this result lacks information on food prices. For that the use perform a join query on the food column to explore other tables that may have information about food prices for the years 1990 to 2009.

Attempt 1: To speed up search the user submits $Q_1 = \text{(Table 1, Join column : "Food", } k = 10\text{)}$ with a small k value. The search engine returned 775 tables. However, after skimming through the list of returned tables nothing seemed relevant to the user.

Attempt 2: The user decides to increase k to get more results from the search engine. He/she submits a second query $Q_2 =$ (Table 1, Join column: "Food", k = 20). This time the search engine returned 161 tables, because the number of results is big the user could notice Table 2 ranked at position 55.

Attempt 3: As a last attempt the user gave up on getting any fast meaningful result so he/she decide to increase k significantly in hope that a relevant table will appear in the list of results. He/she submits $Q_3 =$ (Table 1, Join column: "Food", k = 200). Finally and after several attempts, the search engine returned Table

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2 at position 11 which contains information on food prices from the $2007~\rm WIC$ program.

2 BACKGROUND

3 SYSTEM ARCHITECTURE

4 DEMONSTRATION

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Food	1990	1995	2000	2002	2004	2005	2009
Wheat flour	135.9	140.0	146.3	136.8	134.3	134.1	134.6
Vegetables	386.0	407.6	423.0	411.8	422.8	415.4	390.9
Veal	0.9	0.8	0.5	0.5	0.4	0.4	0.3
Turkey	13.8	13.9	13.7	14.0	13.4	13.1	13.3
Tree nuts	2.45	1.94	2.57	3.24	3.62	2.7	3.7
Rice (milled basis)	15.8	17.1	18.9	19.5	20.4	21.0	21.2
Red meats2,3,4	112.2	113.6	113.7	114.0	112.0	110.0	105.7
Poultry2,3,4	56.2	62.1	67.9	70.7	72.7	73.6	69.4

Table 1: U.S. Economy and the Federal Budget Economy: Per Capita Consumption of Principal Foods

Food item	Retail sales database selection criteria	Units	Price per unit (inflated to FY06)
Yogurt	Quart sized containers and larger. Plain, vanilla, and fruit flavors	qt	2.068
Whole-grain	bread Wheat or grain bread	lb	1.422
Whole	Fresh dairy milk only, $1/2$ gallon or gallon containers. Reduced fat includes skim milk and milk identified as 2% or lower milk fat	qt	0.767
Tuna	Chunk light, canned	oz	0.101
Peanut butter	All forms and varieties. Not mixed with jelly	oz	0.094
Brown rice	Instant or regular	lb	1.178

 ${\bf Table~2:~Federal~Register --~Special~Supplemental~Nutrition~Program~for~Women, Infants~and~Children~(WIC), } {\bf 2007}$