

Linked Open Data Technologies for Publication of Census Microdata

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Censuses are one of the most relevant types of statistical data, allowing analyses of the population in terms of demography, economics, sociology, and culture. For fine-grained analysis, census agencies publish census microdata that consist of a sample of individual records of the census containing detailed anonymous individual information. Working with microdata from different censuses and during comparative studies are currently difficult tasks due to the diversity of formats and granularities. In this article, we show that novel data processing techniques can be applied to make census microdata interoperable and easy to access and combine. In fact, we demonstrate how Linked Open Data principles, a set of techniques to publish and make connections of (semi-)structured data on the web, can be fruitfully applied to census microdata. We present a step-by-step process to achieve this goal and we study its theory and practice, first with case studies: the 2005 Spanish census and a general framework for Integrated Public Use Microdata Series (IPUMS).

Census Data Dissemination and Open Data

Let us quote in full the reflection of the United Nations Statistics Division (2009):

Census is not considered complete until the collected information is readily available to users in the form indicated in their needs. Recent decades have witnessed an increasing demand for census data since, for a broad range of census products and services, both census providers and the needs of dissemination, often competing advantages and limitations. In some instances, the census census providers and various international institutions and user-groups colluding ways to reach out to a wide range of users in the public and private sectors. With the widespread use

of microcomputers and growing access to the Internet, an increasing number of data users prefer to obtain census data in electronic media rather than in printed form (p. 37).

One of the main challenges in this area is the computational support to fulfil the demands posed by these trends. A recent survey shows that most countries publish their census results in electronic media. The published media are in this order: data tables (95%), CD-ROMs (80%), geographic information systems (68%), web-based tools (59%), and online databases (37%) (United Nations Statistics Division, 2009).

From a computational point of view, census web tools indicate that increasingly people consider that a piece of information is “available” or “public” only if it can be obtained online. This follows technological trends that indicate that intermediate “artifacts” of information (printed, CD-ROMs, data centers, etc.) are rapidly becoming obsolete. Our research work refers on this fact and examines the behavior of web technologies regarding publication of census microdata.

Microdata

Records of censuses are disseminated via tabulations of different topics and granularities and often, in many cases, via microdata samples. The United Nations Statistics Division (2009) defines microdata as:

the individual records that contain information collected in a census or survey on the characteristics of each person, household and housing unit. A census microdata sample allows researchers to learn simultaneously all the personal characteristics of every individual in the sample (p. 96).

National organizations have diverse policies regarding the distribution of basic census information. Usually there is a standard dissemination policy for data for the general public and specialized, more restricted case-by-case policies for

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