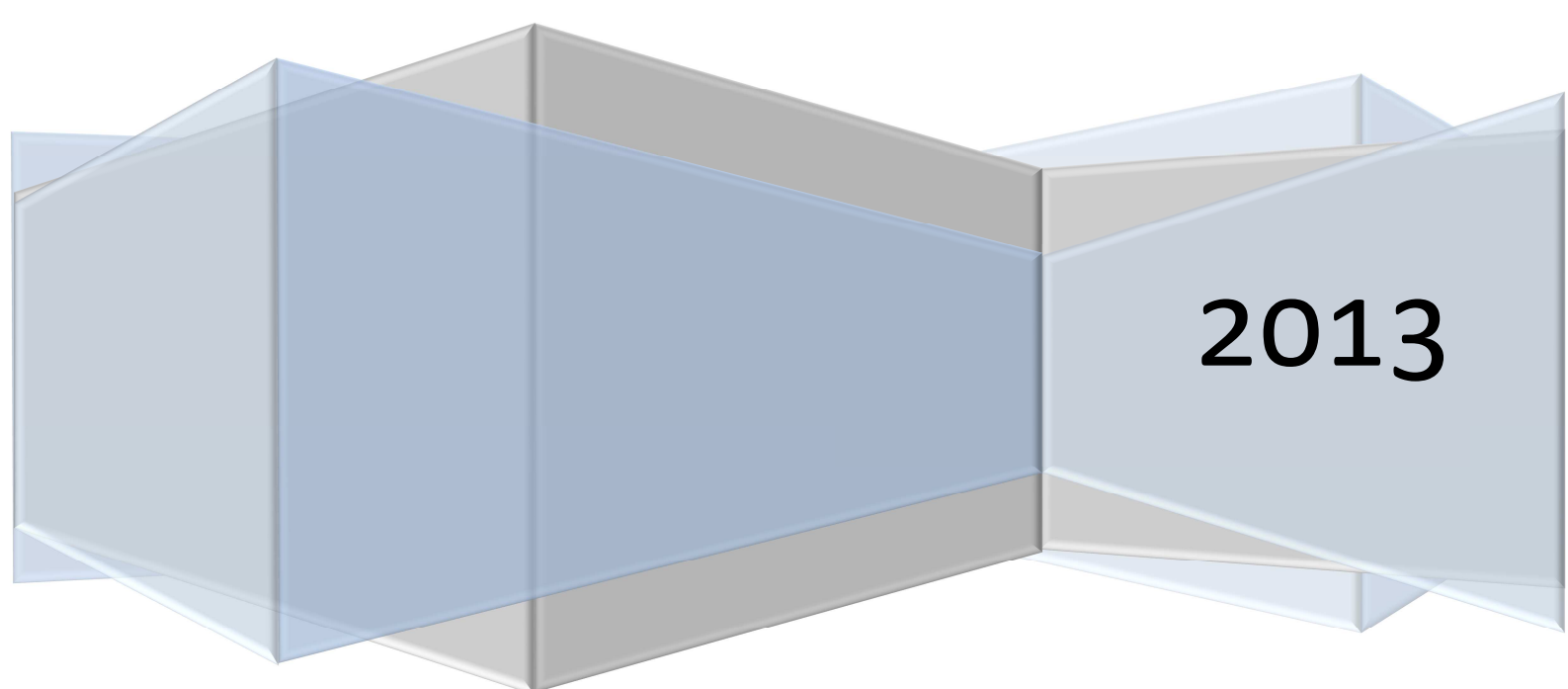


DBMS 2013

Database Management Survey 2013

PhD Research

Victoria Holt



2013

EXECUTIVE SUMMARY

With the explosion of structured and unstructured data, managing these ubiquitous data driven environments has become complex. The emergence of a significant number of new database engines including NoSQL, NewSQL, InMemory types, as well as the Cloud Database as a Service (DBaaS) and Cloud self-managed database servers running on Infrastructure as a Service (IaaS), provides a plethora of choice. These applications have been designed to address differing requirements such as scalability, performance, security, availability, agility and data management needs such as analytics, data quality, master data management and governance.

This new world of data and tools, sets the scene for the exploration and the future evolution of where database management needs to extend. The database landscape has and is continuing to change rapidly in both the On-premises and cloud arenas. The question is how do we administer and manage this complex landscape?

This research investigates the current practices and procedures that are used and examines the complexities of managing database systems. Based on the analysis of the collected data set, the objective is to identify if the use of holistic database methodologies can contribute to improvement and innovation.

This survey examines the extent practices and procedures are utilised by the database community and what affects their adoption. In this survey which was open for data collection between 13 December 2012 and 6 February 2013, 453 database and data professionals from across the global database community participated. The PhD study is carried out through The Open University.

The highlights of the demographics shared in this document are as follows:-

- ❖ In which country do you work?
- ❖ What industry sector do you work in?
- ❖ What is the approximate size of your organization's total workforce?
- ❖ What database applications do you use?

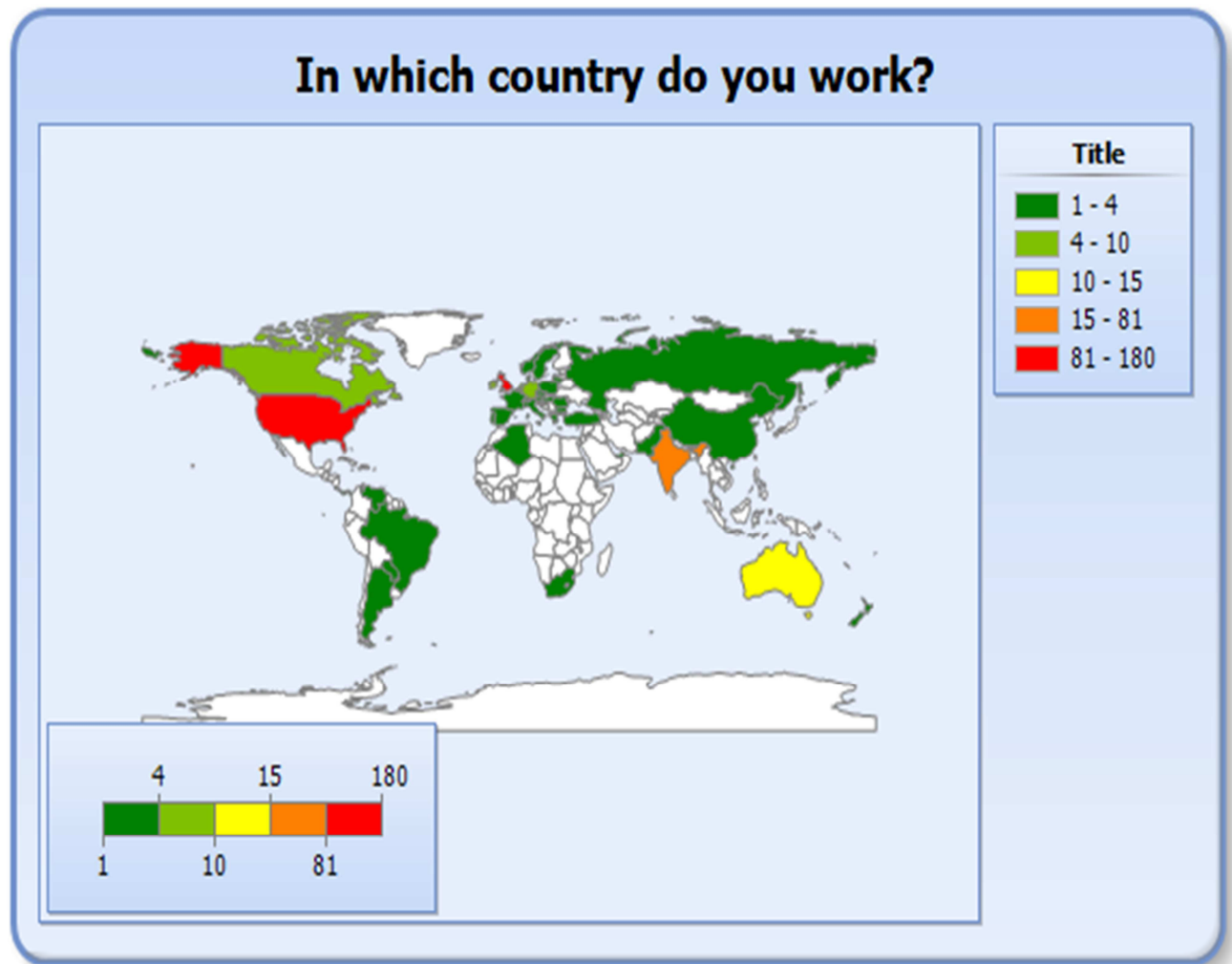
Further results of the survey will follow in due course once analysis has been carried out.



DEMOGRAPHIC HIGHLIGHTS

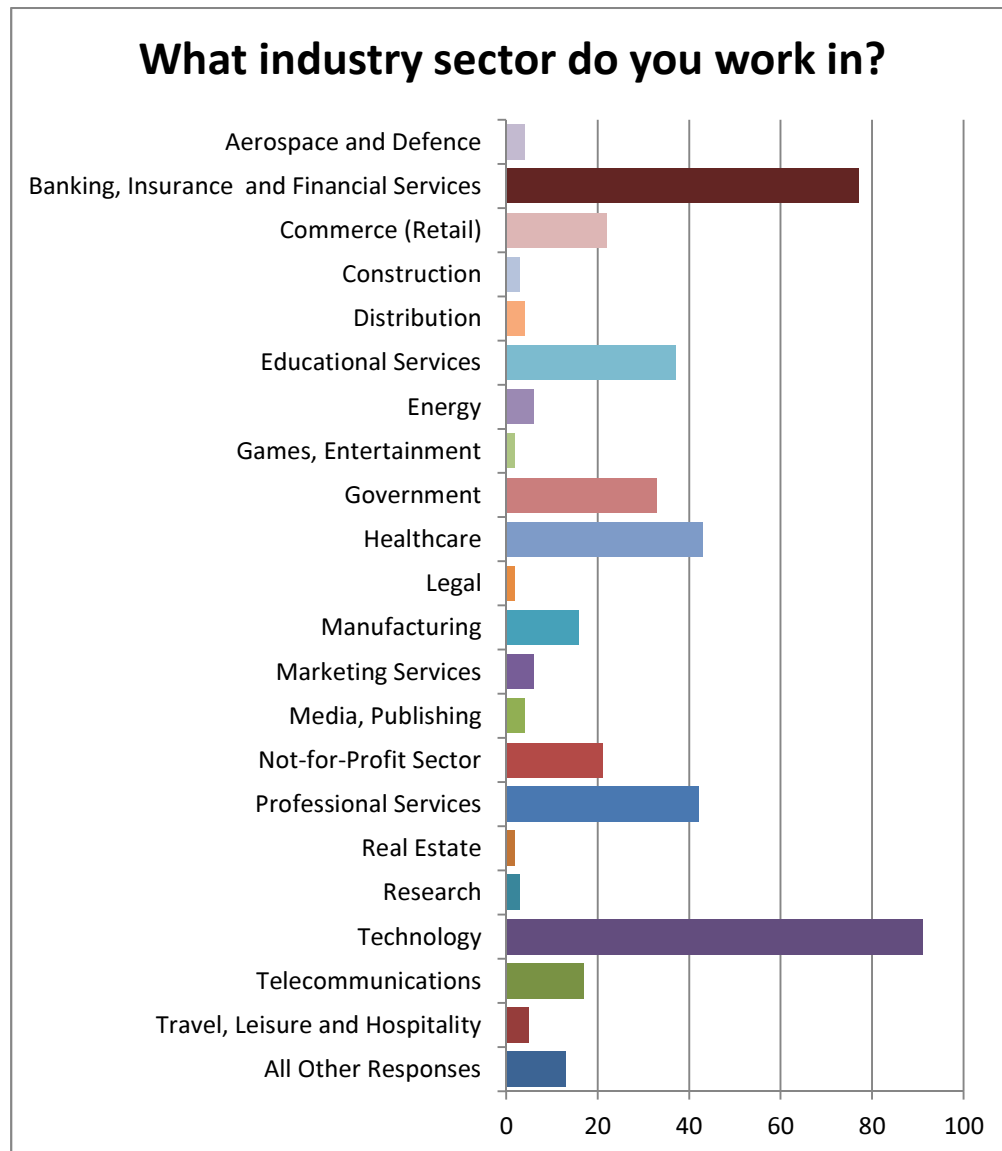
The countries the respondents work in are shared in figure 1.

Figure 1 Around the Globe



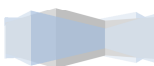
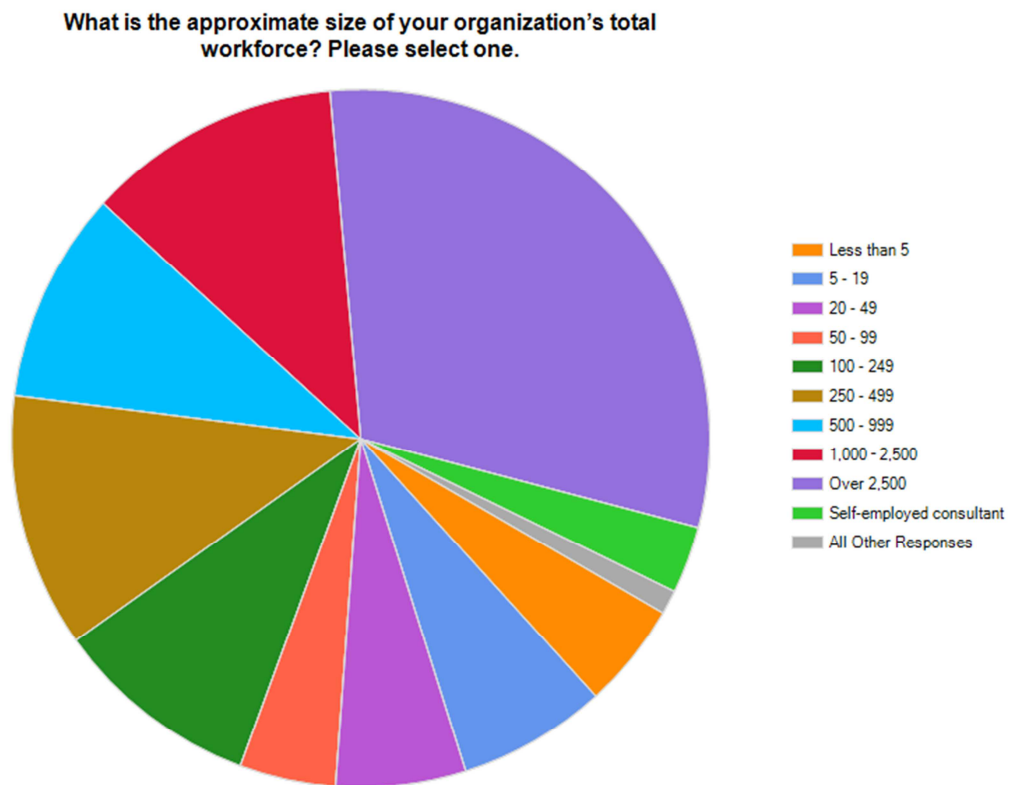
The industry sectors represented in the survey results are shown in figure 2.

Figure 2 Industries



The approximate size of the organization's total workforce is shown in figure 3.

Figure 3 Workforce



The database applications in use are pictorialized in the Wordle diagram figure 4. A couple of key facts show:

- A total of 51 database applications were recorded as being used in the survey.
- The top 3 database applications mentioned by the respondents were Microsoft SQL Server, Oracle and MySQL.

Figure 4 Database Applications

