How to use Reference Data Architectures

Barry Williams
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barryw@databaseanswers.org
1. Introduction
This Tutorial is an extract from our Best Practice in Data Management. We would be very pleased to receive your comments.

2. Our Generic Architecture
Over Christmas I reviewed my Reference Data Architecture to reflect the requirements of Big Data and complex Analytics. The new version is on this page of our Web Site:

- [http://www.databaseanswers.org/reference_data_architecture.htm](http://www.databaseanswers.org/reference_data_architecture.htm)

and looks like:
3. The IBM Big Data Architecture

3.1 Simple version
This diagram is from this page on the IBM Web Site:

and looks like:
3.2 Complex version
This version is on this page:
- [http://www.slideshare.net/findwise/ibm-big-dataanalytics](http://www.slideshare.net/findwise/ibm-big-dataanalytics)

and looks like this:
4. The Oracle Reference Architecture
From this page on our Web Site :-
- [http://www.databaseanswers.org/oracle_reference_data_architecture.htm](http://www.databaseanswers.org/oracle_reference_data_architecture.htm)

From this information on Kent Graziano’s Blog :-

and looks like :-

![Oracle Reference Architecture Diagram](image)

5. Our Simplified Generic Architecture
When I looked again at my new Reference Data Architecture I realised I could simplify this diagram a little by reducing it to three Layers like this :-

![Simplified Architecture Diagram](image)

The benefit of this is that it allows us to map the IBM and Oracle Architectures. In this way, we have a common framework to compare all the Architectures.