A Start-Up Plan for Database Answers in Egypt

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Chapter 1. The Plan

1.1 Background

Database Answers is an established company in the UK providing consulting services in Enterprise Data Management to a range of Clients in both the public and private Sectors. Their Website is :-

• http://www.databaseanswers.org/index.htm

It is now their intention to investigate the feasibility of opening an Office in Egypt.

Database Answers supports a global Community of people interested in Databases and Data Management which includes fifty members in Egypt who will be invited to be involved in the new Office.

1.2 Strategy

The strategy is to establish the business in Egypt and use this to extend in the Middle East. There will be four major areas of activity:-

- 1) The Future of Ubiquitous Data In the future data will be available 'any Time, any Place using any Device'. This will involve collaboration with Universities and Research organizations to address areas of interest which will bridge the gap between the present and the future. An example is creating Transformation Frameworks to produce formal specifications from unstructured statements of business requirements.
- 2) Smarter City Applications
 Building a Generic Platform for Smarter City Applications.
- 4) Developing Tutorials eg "Learning Data Modelling by Example".
- 5) Careers Advice
 Mentoring Students on how to have a successful career in Enterprise Data Management

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1.3 Getting Started

Part of our mission is to establish Proof of Concept for the feasibility of a general approach to Ubiquitous Data by building on a Best Practice Road Map for Enterprise Data Management. In casual conversation, we might say simply 'The Theory and Practice of Ubiquitous Data'.

This would achieve the aim of moving the concept of Ubiquitous Data into mainstream thinking.

Barry Williams
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Chapter 2. Planning for the Future

2.1 Ubiquitous Data

Our Vision of the Future is 'Ubiquitous Data' with data available 'at any Time, any Place and using any Device'.

We can see this now with the Apple iPhone and other Smartphones.

These all offer thousands of Applications ('Apps') for specific functions that are delivered over the mobile device.

Our vision of the Future replaces all these specific Applications with a Generic Data Platform to support families of Generic Applications.

This picture shows Data Sources with streams of data going everywhere.

 $Sources\ include\ Communities,\ Education,\ Environment,\ Family\ and\ Friends,\ Interests\ and\ so\ on.$

This diagram can be seen in full on this page of the Database Answers Website :-

http://www.databaseanswers.org/Future of Databases/the vision.htm



A Proof-of-Concept is in the process of development.

This page describes the specifications and the current situation with IBM Software :-

http://www.databaseanswers.org/Future of Databases/poc bmews ibm.htm

2.2 Families need Data

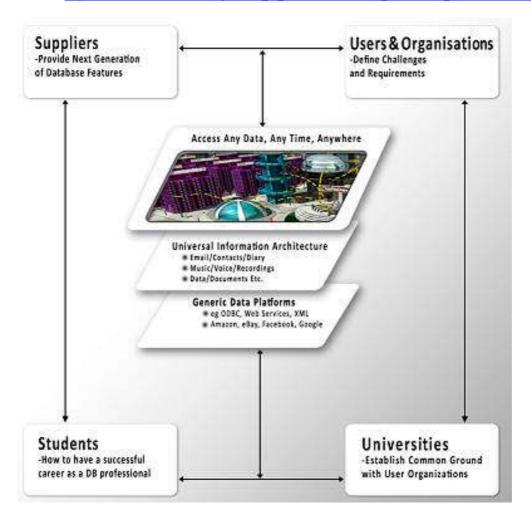
This diagram shows the range of Data that a typical Family will need.



2.3 A Universal Information Architecture

There are four points of view representing four different points of interest. This diagram appears on this Page on the Database Answers Web Site:-

• http://www.databaseanswers.org/Future of Databases/Universal Information Architecture.htm



2.4 Data Architecture for Migration to the Future

This diagram shows the major Building Blocks for the future.

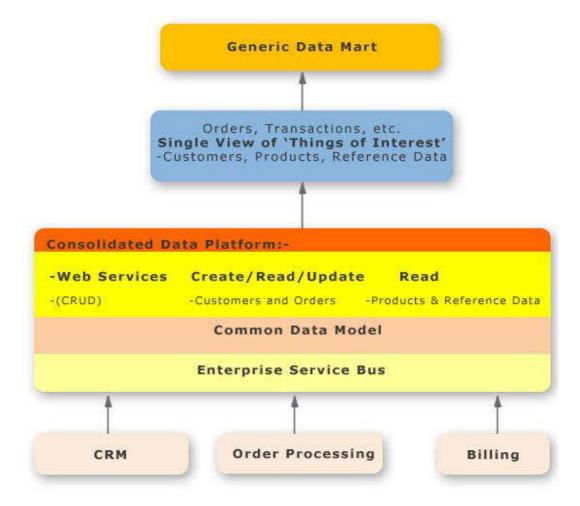
They provide a migration path from Business Specifications to implementation using Products from specific Vendors.

Each of these Building Blocks can be provided by major vendors and niche players.

They represent the 'State-of-the-Art' and using them in an integrated manner is currently a serious challenge.

It appears on the Proof-of-Concept Page on the Database Answers Web Site :-

• http://www.databaseanswers.org/Future of Databases/proof of concept.htm



Chapter 3 .A Generic Platform for Smarter City Applications

3.1 Monitoring the Environment

This diagram shows a 'Traffic Light' approach to monitoring the environmental quality of a region in London, England.

Key Performance Indicators ('KPIs') have been defined and values are displayed as Red, Amber or Green, depending whether the environmental situation needs:-

- urgent management attention ('Red)'
- attention but not urgently (Amber)
- no attention (Green).

The same approach is used to monitor other factors such as Vandalism and the Ethnic Origins of the population.

It appears on the Database Answers Web Site :-

• http://www.databaseanswers.org/street environment services/traffic lights rag.htm

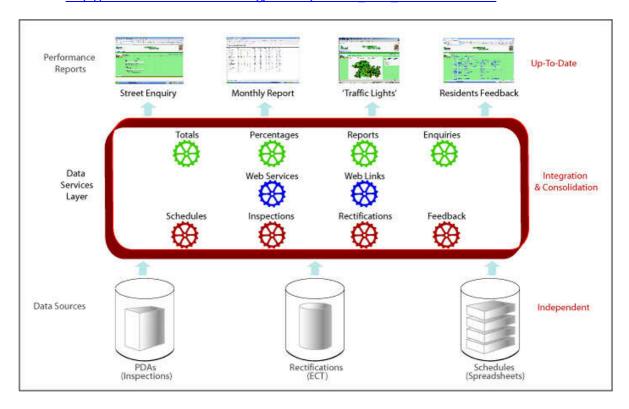


3.2 An SOA Architecture

This diagram shows the SOA Architecture that we designed to support the Monitoring System shown above.

It appears on the Database Answers Web Site :-

http://www.databaseanswers.org/bmews/bmews_data_architecture.htm



Chapter 4. The Present - Road Map for Data Management

4.1 Road Map for Best Practice

This Framework defines a Road Map with six Stages.

The Road Map recommends Best Practice in each of six major Stages for Data Management.

This document defines Templates for each Stage.

Best Practice involves Activities in each Stage, along with the integration of these Activities.

The major vendors, such as IBM, Microsoft and Oracle, all offer Software Products for each Stage.

This shows Stages and related Business Questions.

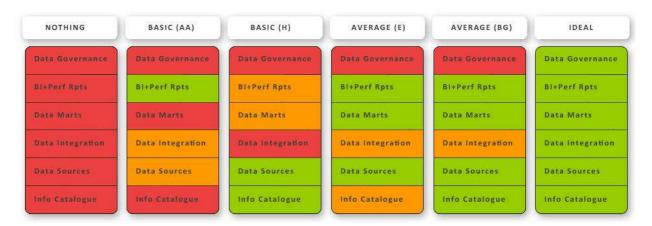
Stages Comment **Business Questions** Roles, Responsibilities How can the CEO be sure that data Data and Compliance with in the Reports is consistent, correct Governance **Use Report Templates** Do the Key Performance Indicators (KPIs) report the things that should be Performance and Ad-Hoc Enquiries Reports monitored? A Generic Design to What data summaries are required for strategic Reports, Data Marts provide totals for Reports To provide a 'Single Is there a 'Single View of the Data Customer' and other important Integration View of the Truth', with Things, like Products, To record details of all How many different sources of data Data Sources have to be considered? major Systems What Information is available about Maintain a Repository Information Systems, Data Owners and so on? Catalogue of all Databases, People

4.2 Maturity Model in Data Management

This diagram makes it possible to identify where an organization is situated in its use of Data Management.

It appears on the Database Answers Web Site :-

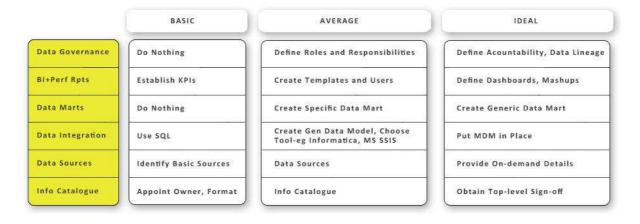
• http://www.databaseanswers.org/best practice road map/maturity model.htm



4.3 Planning a Strategy for Data Management

This diagram offers possibilities for strategies. It appears on the Database Answers Web Site:-

http://www.databaseanswers.org/best practice road map/strategy production.htm



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Chapter 5. Career Guidance

We offer advice on your Career based on our many years experience.

Here is a selection of pages on the Database Answers Web Site :-

- Careers http://www.databaseanswers.org/careers.htm
- Personal Qualities for Success choose a career that suits your personality :-
 - http://www.databaseanswers.org/personal_qualities_for_success.htm
- Tutorials http://www.databaseanswers.org/tutorials.htm

Chapter 6. Implementation with IBM Products

Here are Web Links for each Stage :-

- 1) Data Governance -
 - Data Governance Council http://www-01.ibm.com/software/sw-library/en-us/detail/z992137B74662E40.html
- 2) Performance Reports
 - Cognos http://www-01.ibm.com/software/data/cognos/
- 3) Data Marts
 - InfoSphere http://www-01.ibm.com/software/data/infosphere/warehouse/values/design.html
- 4) Data Integration
 - Cast Iron http://www.castiron.com/
 - o Data Architect http://www.ibm.com/software/data/integration/rda/
- 5) Data Sources -
 - Business Glossary http://www-01.ibm.com/software/data/infosphere/business-glossary/
- 6) Information Catalogue
 - o http://www-01.ibm.com/software/data/infosphere/business-glossary/

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