

“Saving one day per week per scientist”



DBA Services

Data Management Services

Audience

IT Heads responsible for maintaining and integrating data management solutions

Abstract

This brochure describes a number of services designed to help you to maximise your usage of leading data management solutions. These services include:

- Workshops: Extracting information from data models
- Projects: Data Migration and Take-on
- Services: Performance Tuning and Configuration Review
- Services: Metric development

Are you getting the most from your data management solution?

Let us help...

→ Workshop: Extracting information from the database schema

Are you considering a project based on data from your biological data model?

After the full 3 day workshop attendees will be able to

- Understand the overall database structure
- Be able to query results
- Understand available packages for insert of object/plate data

Our approach includes analysis of your requirements for the training, leading to an agreed set of training objectives and development of a customized training course. Your trainer has over 20 years experience of relational database management systems in discovery and experience of using most of the leading solutions.

“Saving one day per week per scientist”

➔ Data Migration and Take-on Projects

Do you have legacy data that you'd like to move into the same database as your operational data?

Are you migrating from one solution to another?

We have extensive experience of moving data in and out of discovery data management solutions from the leading vendors as well as custom data models. With more than 10 years operational experience of using these solutions we are specialists in data migration between data models. As leading domain experts in discovery data management we believe the key to the success of any data migration project is an understanding its structure and context. We have experience of all of the leading data management data models.

Whether warehousing data from multiple databases or migrating data from one model to another our services will help reduce risk and costs of your projects. *See our data life cycle services brochure for more details.*

➔ Tuning and Configuration Review Service

Not all companies have access to experienced DBA services. Where there's no full time Database Administrator or the DBA doesn't have time to monitor and read up on specialist vendor solutions, we can help. A simple 1-2 day consultancy visit will highlight problems and improve the performance of the installation. This can transform the user's perception of the database solution and improve overall efficiency.

Our configuration review service analyses a number of areas to improve performance and check the database is secure and an effective backup/recovery strategy is in place.

Work Plan

Example work plan:

Operation	Man/Days	Location
Analysis of System	1-2	Onsite
Apply suggested changes	1	Onsite

The Edge DBA's will conduct the following activities:

- Server setup

A number of parameters can be used to optimise the performance of data management solutions deployed to a dedicated Oracle server. In general for larger shared use servers we recommend that this is dealt with by your full time DBA. The configurational review service covers the following areas.

- Table Structure

A general review of the structure of tables is conducted to identify heavily fragmented tables.

- Network latency

“Saving one day per week per scientist”

One of the key factors in improving performance is related to transmission of data over the network link. There are a number of client configuration parameters which can be set to get the best out of your network. These have highest impact on those using remote clients or operating in a high throughput environment.

- Condition Consolidation

The performance of the many databases can be impaired by redundant usage of result conditions. We will analyse your system and recommend changes which can improve performance and streamline operation of the database. At all times we will recommend actions and discuss any impacts.

- Data consistency problems

There are a number of data consistency problems which may occur with your database schema. We will identify and recommend remedial action for any problems identified.

➔ Metric Development Services

Operational Statistics

Operational statistics can help manage data capture and provide greater visibility on your operations. Our metric development service will provide business analysis, requirements preparation and a set of operational metrics including the following:

- Tests per week
- Results per Day
- Table Growth
- Result Types Stats
- Protocol Stats
- Study Stats

These can be used to provide operational reports or a live website providing greater visibility on progress and throughput.

High level audit log

Screening operations are often difficult to audit effectively. We have experience of applying data management solutions into compliant areas providing database auditing capabilities. Our high level audit log provides a readable audit log of user operations. This tracks usage statistics across users, objects and tests providing auditable information related to viewing and modification of data.

This can be used to provide audit logs similar to the following example:

Select username, timestamp, operatiob, record_type, record_id from edge_audit_log;

Username	Timestamp	Operation	Record_type	Record_Id
Fred	1/1/2001 10:10	Open	Test Occasion	Test1
Fred	1/1/2001 10:30	Close	Test Occasion	Test1
Jones	1/2/2001 12:23	Open	Protocol	ElizaA:1
Jones	1/2/2001 12:23	Close	Protocol	ElizaA:1

“Saving one day per week per scientist”

Work Plan

Operation	Man/Days	Location
Implementation Audit table & procedures	1-2	Onsite
Implementation on Database	1	Onsite
Custom event tracking (per type)	1	Onsite

The audit events can be used to update related systems without manual intervention improving productivity and efficiency. These services are another example of extending the transparency and integration of data management solutions with your internal systems.

→ Conclusion

Based on more than 10 years experience of dealing with leading data management solutions we understand the issues of keeping a system running efficiently and productively. Our flexible cost effective approach improves performance and throughput increasing productivity.

Why not contact us today and explore how we can help you meet your data management challenges?

Contact:

Telephone +44 (0) 23 8041 1098
Fax +44 (0) 20 7871 0317
Mobile +44 (0) 7914 896943
Email info@edgesoftwareconsultancy.com