Data integration Analysis and Review Tool [DART]

The manual intervention and effort spent during code review process in ETL platform like Informatica, Data Stage and Data Integrator has a profound impact on delivery and quality of work. Further, the complexity of ETL application is unknown without walking through the code. The analyst has to invest time in understanding code and during rework.

Hexaware’s Data integration Analysis and Review Tool [DART] is a rule based XML engine which applies pre defined policies over a XML data and identifies the deviations. DART is applied to ensure coding standards in ETL environment like Informatica, DataStage and Data Integrator.

DART consists of a
- Scanner, through which the DTD structure is scanned and made available for policy definition
- Policy Maker, through which the policies can be defined and maintained
- Query Engine, which takes the defined policies, applies them over the XML data and identifies the deviations
- Report Viewer, through which the deviations identified are made available to the users as reports

Features
- Find all available Metadata objects automatically from the .dtd file using the Scanner
- Provides interface for easier addition and maintenance of the rules related to ETL Standards, like naming conventions for transformations, properties of the transformation ports etc using Policy Maker
- Provides summarized and detail results of the deviations
- Provides metrics on the mappings and workflows like number transformations, ports etc to determine the complexity of the objects

Benefits
- Automated review process eliminates manual intervention, speeds up delivery process and improves quality
- Identifies common coding errors in the ETL platform like data type mismatch, data truncation and missing link
- Reduces effort & cost spent on code understanding and rework
- Determine the complexity of existing ETL applications without walking through the code
- Secured practice. Access to metadata without having access to repository

Figure 1 - DART Architecture
### Data integration Analysis and Review Tool [DART]

#### Figure 2 - Metrics Report

<table>
<thead>
<tr>
<th>Service Area</th>
<th>Tool’s usage description</th>
<th>Percentage Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Upgrade</td>
<td>• Reduces the object reconciliation effort and generates the metrics for each version of the product&lt;br&gt;• Identifies Invalid objects during the upgrade&lt;br&gt;• Efficient study of the source environment&lt;br&gt;• Easy identification of the required entities that need to be migrated&lt;br&gt;• Easy, quicker, accurate comparison and validation of the metadata of the old and new versions</td>
<td>25</td>
</tr>
<tr>
<td>Product Migration</td>
<td>• Provides report of redundant and dead objects&lt;br&gt;• Produces report on complex expressions&lt;br&gt;• Can Extract any granular information on each object details&lt;br&gt;• Helps in identifying the target table fields when the source column is impacted in a mapping</td>
<td>30</td>
</tr>
<tr>
<td>Object Consolidation</td>
<td>• Reduces time spent on Impact Analysis&lt;br&gt;• Improves the overall quality of the deliverable&lt;br&gt;• Eliminates/minimizes review process in project life cycle.&lt;br&gt;• Access to metadata without having access to repository.&lt;br&gt;• Improves software performance and standards.&lt;br&gt;• Ensures best practices and client specific coding standards are followed</td>
<td>30</td>
</tr>
<tr>
<td>Impact Analysis</td>
<td>• Suits for any version of the tools with XML architecture&lt;br&gt;• Reduces the cost spent on rework and coding&lt;br&gt;• Helps in identifying complex mappings through transformation and port metrics&lt;br&gt;• Identifies performance bottle necks</td>
<td>25</td>
</tr>
<tr>
<td>Development</td>
<td>• Serves as a knowledge acquisition tool for existing systems where maintenance is needed&lt;br&gt;• Reduces the object reconciliation effort and generates the metrics for each version of the product&lt;br&gt;• Identifies Invalid objects during the upgrade&lt;br&gt;• Efficient study of the source environment&lt;br&gt;• Easy identification of the required entities that need to be migrated&lt;br&gt;• Easy, quicker, accurate comparison and validation of the metadata of the old and new versions</td>
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<td>Maintenance Support</td>
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About Hexaware
Hexaware is a leading global provider of IT and BPO services. The company has achieved leadership position in domains such as Banking, Financial Services, Insurance, Transportation, Logistics and HR-IT solutions. Hexaware focuses on delivering business results leveraging technology solutions and specializes in Business Intelligence & Analytics, Enterprise Applications, Independent Testing and Legacy Modernization. Hexaware has been providing business technology solutions for over 18 years and offers world class service delivery, technology leadership and skilled human capital.

Competencies
Hexaware has extensive capabilities with leading Business Intelligence & Analytics products thus ensuring that our solutions meet clients’ current and future needs.

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Safe Harbor
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