

Schema on read XML conversion

- Data analysis - Manual

1

- Schema definition - Manual

2

- Error handling - Manual

3

- Schema optimisation - No optimisation

4

- Data mapping
 - Manual
 - On the fly
 - Ad-hoc query

5

- Data insertion - N/A

6

Schema on write XML conversion

- Data analysis - Manual

1

- Schema definition - Manual

2

- Error handling - Manual

3

- Schema optimisation - No optimisation

4

- Data mapping - Manual. As part of ETL

5

- Data insertion - Manual

6

Automated XML to Oracle conversion

- Data analysis - Automated

1

- Schema definition - Automated

2

- Error handling - Automated

3

- Schema optimisation - Fully Optimised database schema

4

- Data mapping - Automated

5

- Data insertion - Automated

6

Schema on read XML conversion

- Documentation - Manual

7

- Data lineage - Manual

8

- Querying data - Writing queries against XML data can be more complex and less intuitive than querying data with a predefined schema

9

- Schema evolution and code refactoring - Manual

10

- Go-live - Slow

11

- Complexity - Suitable for simple scenarios. Low complexity of XML

12

Schema on write XML conversion

- Documentation - Manual

7

- Data lineage - Manual

8

- Querying data - Easy to query relational output with standard SQL

9

- Schema evolution and code refactoring - Manual

10

- Go-live - Slow

11

- Complexity - Suitable for simple scenarios. Low - medium complexity

12

Automated XML to SQL conversion

- Documentation - Automated

7

- Data lineage - Automated

8

- Querying data - Easy to query relational output with standard SQL

9

- Schema evolution and code refactoring - Semi-automated:
 - Metadata catalogue
 - Schema diff
 - Auto-generated DML and DDL

10

- Go-live - Fast

11

- Complexity - Suitable for all scenarios. Particularly useful for medium and high XML complexity and XML based on industry data standards

12

Schema on read XML conversion

- Data quality - Low. Data validation becomes the responsibility of the query writer.

13

- Conversion effort - High

14

- Query performance - Slow

15

Schema on write XML conversion

- Data quality - High. Data is validated

13

- Conversion effort - Very high

14

- Query performance - Fast

15

Automated XML to SQL conversion

- Data quality - High. Data is validated

13

- Conversion effort - Low

14

- Query performance - Fast

15