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|  | Karma Data Integration Tool | COMA CE | The talend data Studio |
| Quality Criteria | | | |
| Support | There is direct support for the tool. The tool is still under development. There are available source codes that can be re-edited for different types of job requirements. | There is no link to direct support. However, the platform is active, and there is high-level versioning on GitHub. The tool is designed for ontology mapping, and semantics and active community work on the tool. | Direct support available. However, the tool needs a license. The license can be obtained at a cost |
| Searching Capabilities | It provides a searcher for looking for the most appropriate definitions and cross-referencing with other existing ontologies. | The tool does not provide a searcher section for looking for the most appropriate definitions and cross-referencing with other existing ontologies | A searcher for looking for the most appropriate definitions and cross-referencing with other existing ontologies |
| Analyzer | The tool provides means of structuring the lexical and syntactic semantics by providing a layer that serves as an analyser to guarantee the absence of lexical and syntactic errors. | The tool does not provide any analyser for checking lexical and syntactic errors. | The tool provides means of structuring the lexical and syntactic semantics by providing a layer that serves as an analyser to guarantee the absence of lexical and syntactic errors. |
| Usage | The tool accepts different file formats which can be modelled according to the generated ontology.  Pub[[1]](#footnote-1) | The output file is only the R2RML mappings which can be used in another platform with the datasets | The tool accepts different file formats which can be modelled according to the generated ontology.  Pub[[2]](#footnote-2) |
| Technicalities | Requires a localhost server for maintenance and updating User impute. The localhost server provides means of maintaining and managing the information provided | Provides a server which is hosted which is not locally hosted. Therefore, the client has to pay for the services. | Provides a server which is hosted which is not locally hosted. Therefore, the client has to pay for the services. |
| Capabilities | The tool can import different dataset with different data format during the integration process. Moreover, the tool can support different ontologies at the same time. Therefore, different works can be performed concurrently. The Mapping and merging process uses based on the semantics of both the datasets and the ontology. | The tool takes only one ontology and one dataset at a time.  Mapping is based on standard vocabulary among dataset and ontology. Therefore, each dataset can be modelled base on the ontology schema and compared with different datasets in another round of modelling. | Fewer capabilities. However, the tool has a defined scope. |
| Efficiency | Efficient[[3]](#footnote-3) | Efficient. | Fast in computation and easy to analyse large sum of datasets |
| Documentation | Proper Documentations Available[[4]](#footnote-4) | Proper Documentations Available[[5]](#footnote-5) | Proper Documentations Available[[6]](#footnote-6) |
| Ability to debug | The platform is currently active. Therefore, debugging issues can be resolved in time. | Less debugging notes and platform available | Less usage and no debugging records found. |
| Modifications ability | The tool does not provide an editor for adding, modifying and removing definitions. | The tool does not provide an editor for adding, modifying and removing definitions in the ontology. | The tool provides an editor for adding, modifying and removing definitions. |

1. The output file can be published in different file formats for easy usage. [↑](#footnote-ref-1)
2. The output file can be published in different file formats for easy usage. [↑](#footnote-ref-2)
3. The tool exhibits high ability to integrate huge datasets efficiently. There exists a function that gives the possibility to alter the speed and memory usage. [↑](#footnote-ref-3)
4. Well -documented. The tool provides well-structured documentation on usage and definition of all component [↑](#footnote-ref-4)
5. Well -documented. The tool provides well-structured documentation on usage and definition of all component [↑](#footnote-ref-5)
6. Well -documented. The tool provides well-structured documentation on usage and definition of all component [↑](#footnote-ref-6)