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UID no.	2020300015
Experiment No.	08

AIM:	To study various ETL tools used in data warehouses.			
Program 1				
PROBLEM STATEMENT:	To study various ETL tools used in data warehouses between Talend Open Studio and Oracle Data Integrator.			
Theory:	To study various ETL tools used in data warehouses between Talend Open			

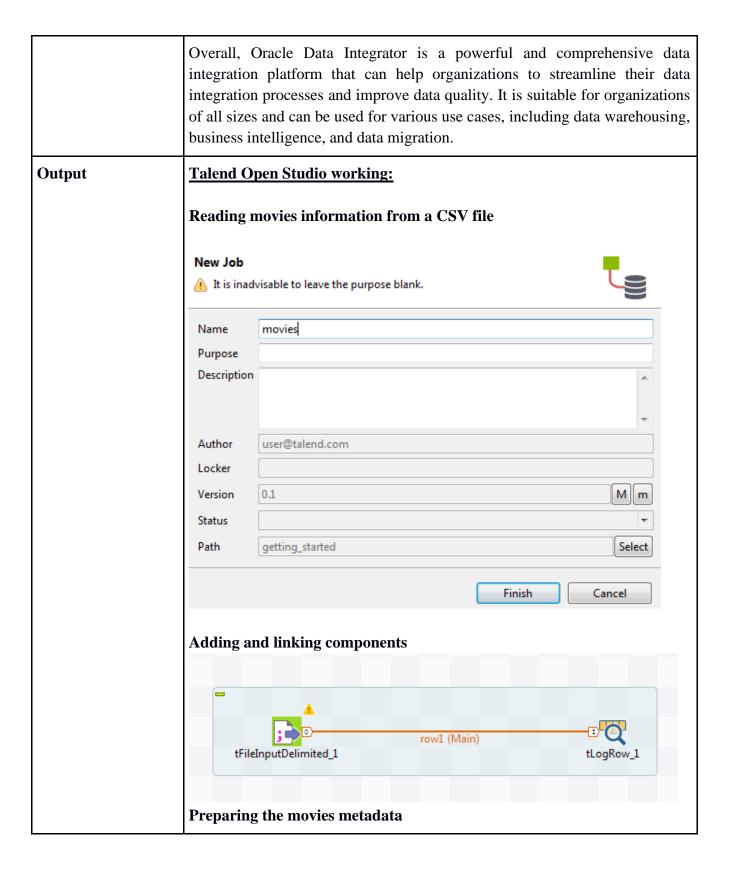
Talend Open Studio supports a wide range of data sources, including databases, flat files, cloud services, and enterprise applications. It also offers a vast library of connectors and pre-built components, enabling users to integrate data quickly and easily from various sources.

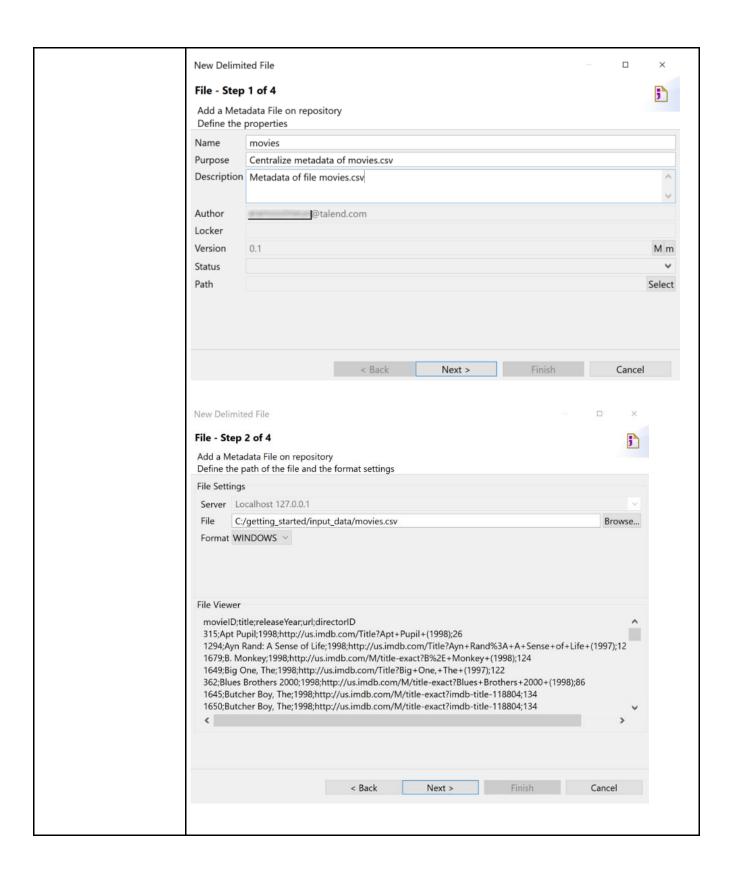
Overall, Talend Open Studio is a powerful and flexible data integration tool that can help organizations to streamline their data integration processes and improve data quality. It is suitable for organizations of all sizes and can be used for various use cases, including data warehousing, business intelligence, and data migration.

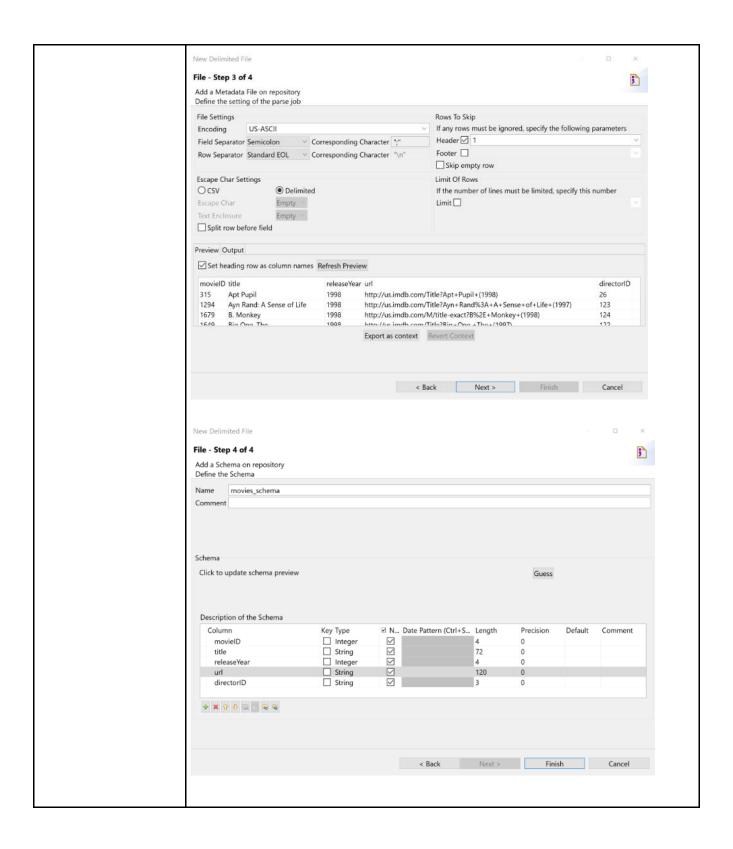
Oracle Data Integrator:

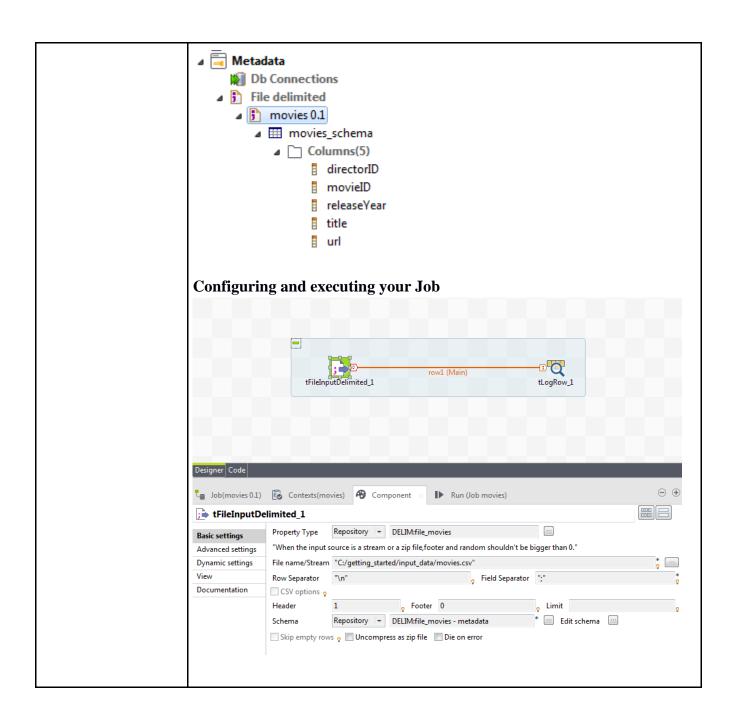
Oracle Data Integrator (ODI) is a comprehensive data integration platform that provides a powerful set of tools for managing and transforming data from various sources. It enables users to extract, load, and transform data from various sources, including databases, flat files, and enterprise applications. Some of the key features of Oracle Data Integrator include:

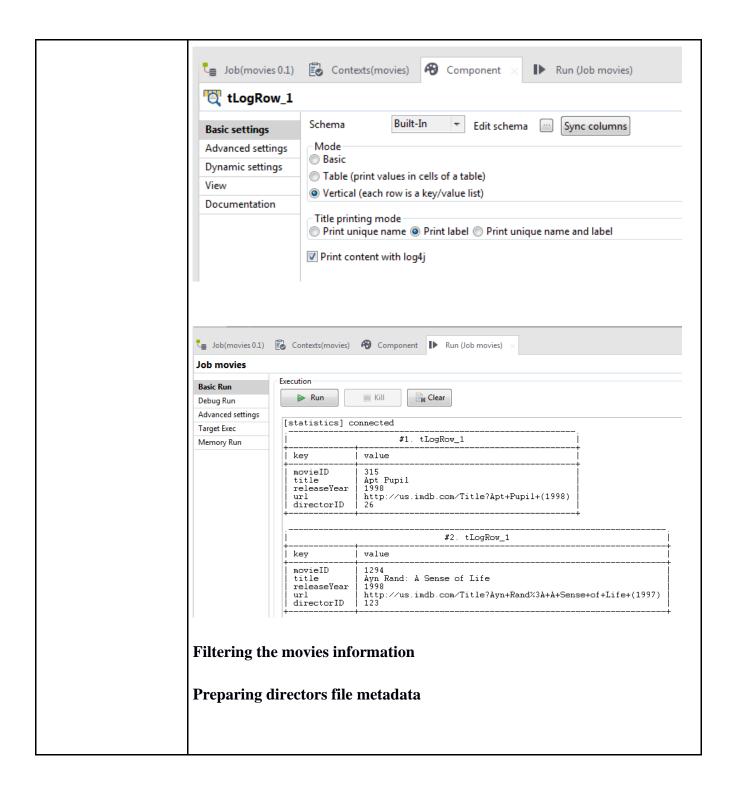
- 1. Data Integration: Oracle Data Integrator offers a comprehensive set of data integration tools that enable users to extract, load, and transform data from various sources.
- 2. Data Mapping: Oracle Data Integrator provides a graphical interface and visual mapping tools that allow users to design and manage complex data integration workflows.
- 3. Data Quality: Oracle Data Integrator offers a comprehensive set of data quality tools that enable users to profile, cleanse, and match data from various sources.
- 4. Cloud Integration: Oracle Data Integrator provides cloud-based data integration capabilities, which enable users to manage and process data from various cloud-based services.
- 5. Real-time Data Streaming: Oracle Data Integrator supports real-time data streaming and processing, which allows users to manage and analyze large volumes of data in real-time.
- 6. ETL Capabilities: Oracle Data Integrator provides Extract-Transform-Load (ETL) capabilities, which enable users to extract data from various sources, transform it, and load it into target systems.
- 7. Development Environment: Oracle Data Integrator provides a comprehensive development environment that enables users to design, develop, and deploy data integration workflows.

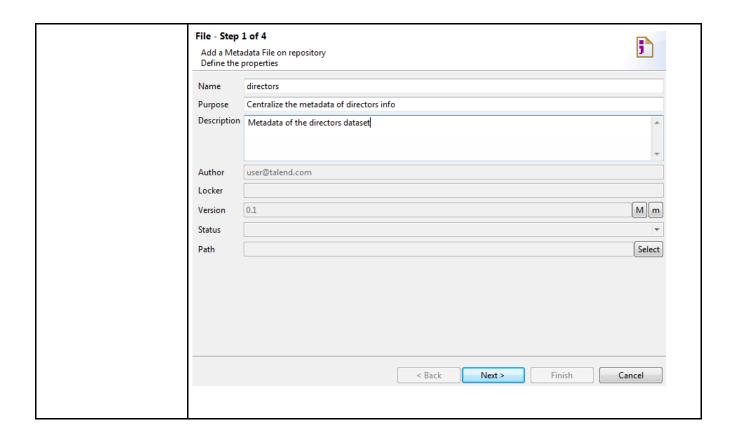


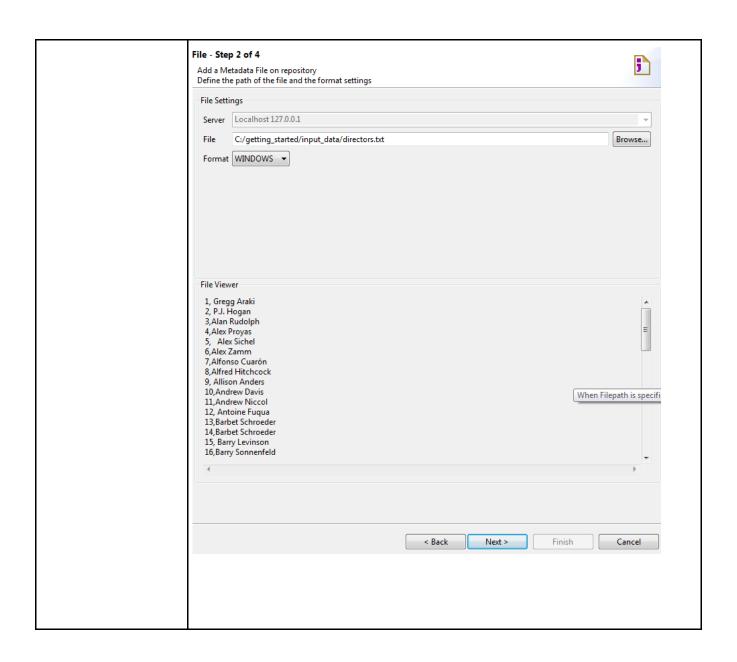


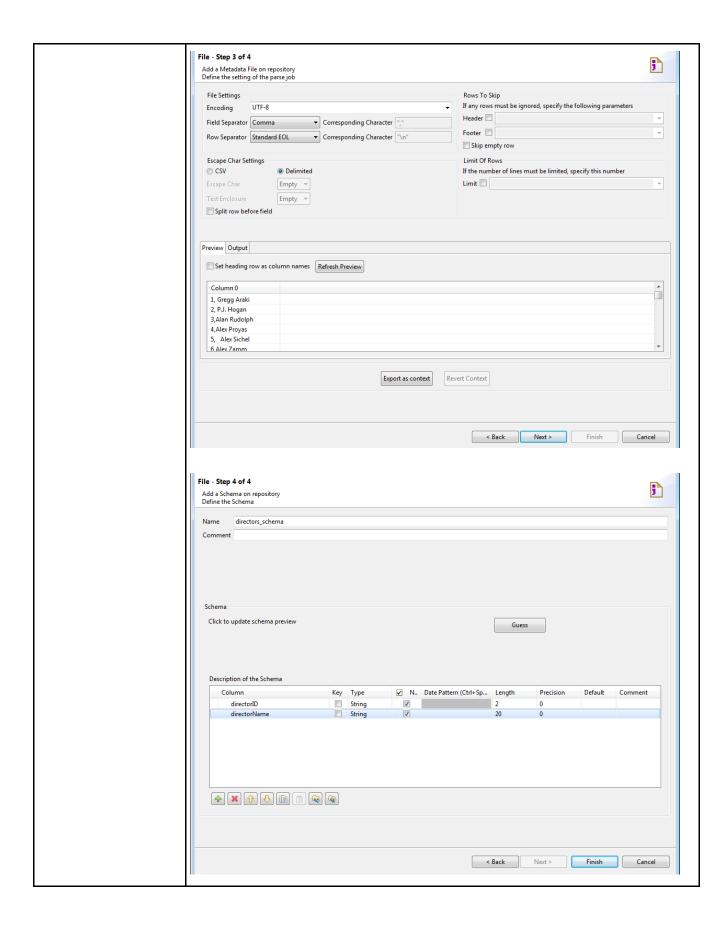


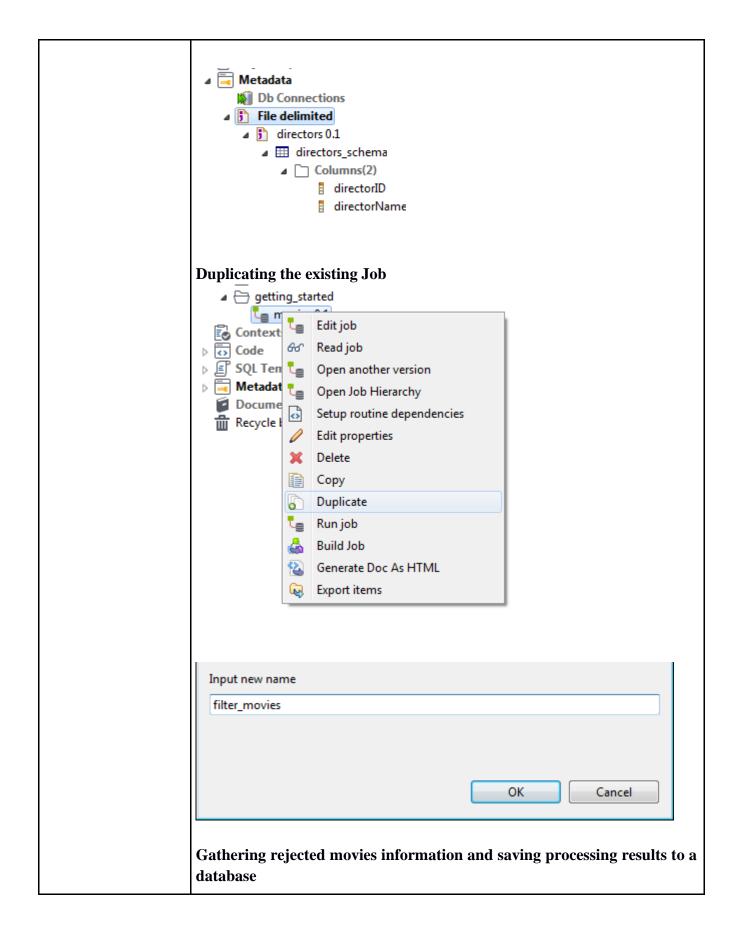


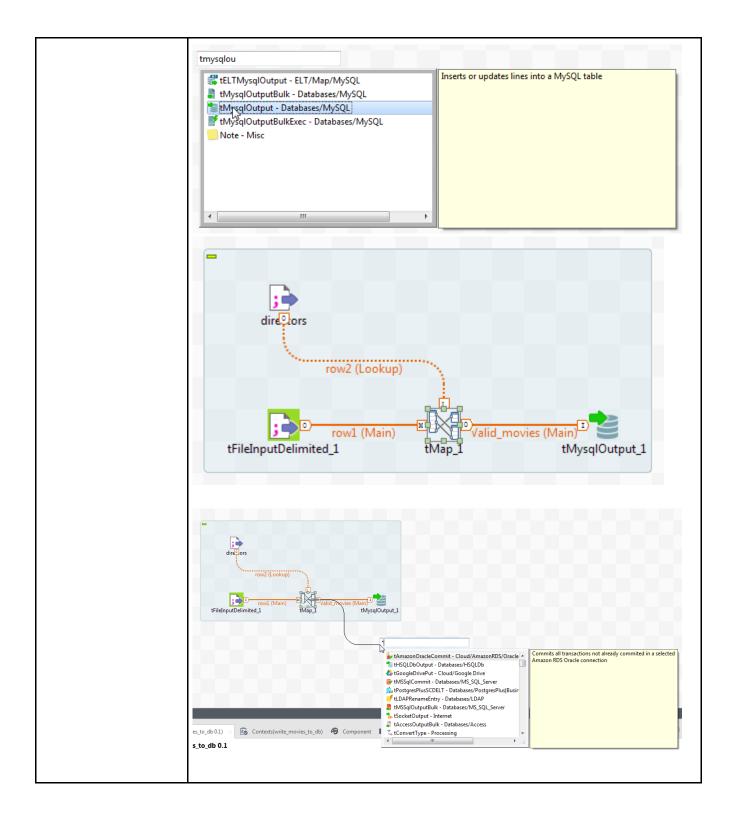


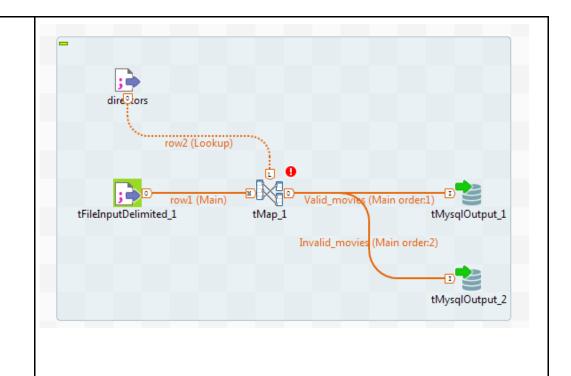












Feature	Talend Open Studio	Oracle Data Integrator (ODI)
Cost	Free and open source	Proprietary software with paid licenses
Data integration		Provides comprehensive data integration and transformation
Data mapping	Provides visual mapping tools and graphical user interface	Offers comprehensive mapping capabilities and graphical tools
Data quality	Supports data profiling, cleansing, and matching capabilities	Provides comprehensive data quality features and functions
Real-time data streaming		Provides real-time data integration and transformation
Cloud integration	_	Provides cloud-based data integration and migration
Development		environment
Integration with ETL	Provides Extract-Transform-Load (ETL) capabilities	Offers ETL capabilities
Scalability	Highly scalable and supports large- scale data integration	Offers highly scalable and flexible integration capabilities

Conclusion:

To create a data warehouse, a lot of data from various sources is required. This data available at different sources may not fit our design. Hence, ETL tools come to rescue from this problem. ETL tools

extract data from various sources and transform them into required format making our work easier and faster. They also load the formatted data into data warehouse.

References:

https://www.talend.com/products/talend-open-studio/ https://www.dremio.com/resources/guides/adv-types-etl-tools/