

Working Examples / Exercises – ETL – Talend

1. From Contact file, provide Contact ID and Full Name details (including title in front) into tgt_contact.txt
2. From Employee file, provide the counts of Males & Females with Married & Unmarried differentiation into tgt_gender_status_counts.csv
3. From Employee & Contact file, capture the employeeID, employee names and user_ids into tgt_user_details.xls
4. From Employee file, split salaried and unsalaried employees into tgt_salaried_emps.txt & tgt_unsalaried_emps.txt. For salaried employees, reduce 5 hrs from their vacation hours. For unsalaried employees, make their vacation hours to 0 hrs.
5. From Product file, provide Safety Stock Level, Reorder Point, StandardCost & ListPrice details in rows for the combination of Name and Product Number. Create a surrogate key for this target file tgt_product_norm.csv
6. From ProductModel file, capture the product models that start with “M” into tgt_m_model.txt file.
7. Create a tgt_product_details.txt file with Product ID, Product Number & Product Model details
8. Create a tgt_sales_territory.txt file with TerritoryID, Name and Country Name details
9. Create tgt_emp_pay_history with employee first name in descending order of Rate and Rate Change Date, ascending order of Pay Frequency. (Contact.csv, EmployeePayHistory.csv)
10. Rank the Employees (from Employee1) based on Vacation Hours... Lesser the first rank... provide the report for top 5 employees with their names, rank and Vacation Hours in ascending order of Rank into tgt_employee_rankwise.

Some more

1. Expression Transformation Examples

- a. From PUBS database, Employees Table output **Emp_id** and **Employee Full Name** into Oracle **EMPPUBxxx** table.
- b. From EMP table find Total Monthly salary of each employee (SAL + COMM)

2. Filter Transformation Examples

- a. Output the **UK Customers** of **Northwind** DB into Oracle DB.
- b. Output the **US Employees** of **Northwind** DB into **Oracle DB**
- c. Output the **Orders shipped** to **France** of **Northwind** DB into Oracle DB

3. Aggregator Transformation

- a. Output ProductId, Max Price, Min Price, Avg Price of each product from OrderDetails of Northwind DB to OracleDB.
- b. Output ProductId, Max Price, Min Price, Avg Price of each product from OrderDetails of Northwind DB to OracleDB for ProductId between 1 and 50 only.
- c. Output Number of Books published by each Author.
- d. Output Number of Books published by each publisher.

4. Unconnected Lookup Transformation Expression

- a. Output ProductId, ProductName Max Price, Min Price, Avg Price of each product from OrderDetails and Products of Northwind DB to OracleDB.
- b. Find OrderId, CustomerID, ContactName from Orders and Customers Tables of Northwind DB.

5. Connected Lookup Transformation Expression

- a. Output ProductId, ProductName Max Price, Min Price, Avg Price of each product from OrderDetails and Products of Northwind DB to OracleDB.
- b. Find OrderId, CustomerID, ContactName from Orders and Customers Tables of Northwind DB.

6. Joiner Transformation

- a. Output ProductId, ProductName Max Price, Min Price, Avg Price of each product from OrderDetails and Products of Northwind DB to OracleDB.
- b. Find OrderId, CustomerID, ContactName from Orders and Customers Tables of Northwind DB.

7. Router Transformation

- a. Output the Employees in **Northwind** to two separate targets – One all those who belong to **WA region** and the other with other region employees into Oracle DB.
- b. Output the Customers of NorthwindDB into 3 separate groups France, Germany and Others based on their Country into OracleDB.

8. StoredProcedure Transformation – (Connected / Unconnected)

- a. Output EmpNo, EName and DName from EMP and DEPT tables of ORACLE db to a target Text File.
- b. Output EmpNo, EName, Sal, Comm and TotalSal of EMP data of Oracle DB to a target text file.