Assignment – 9
SSIS

Task 1: Integration with ETL Data Warehouse (DWH)

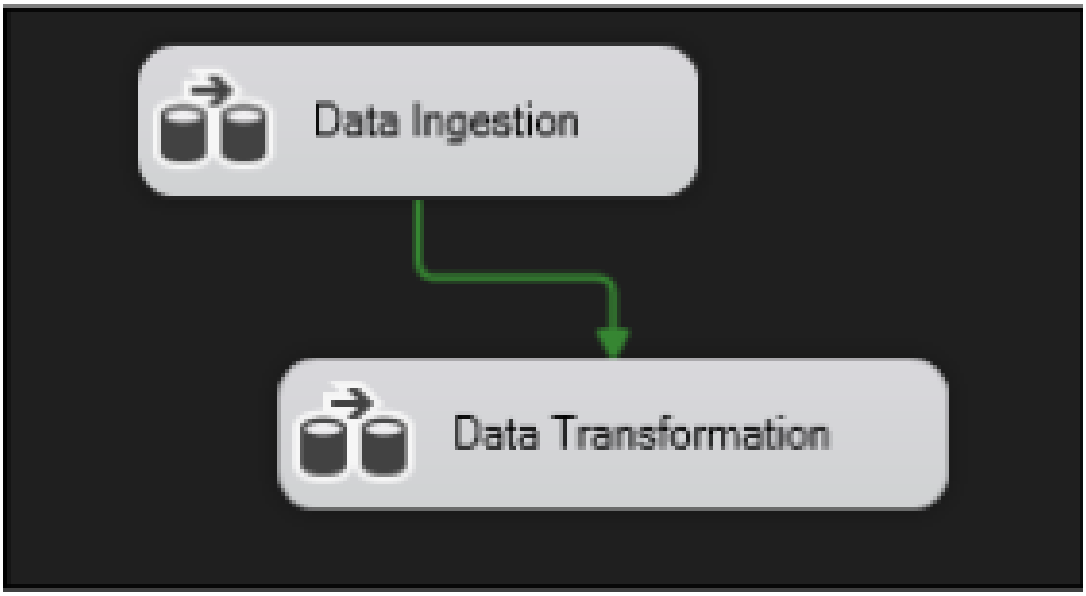
• Create a Connection Manager to connect to the transactional database and the data warehouse.

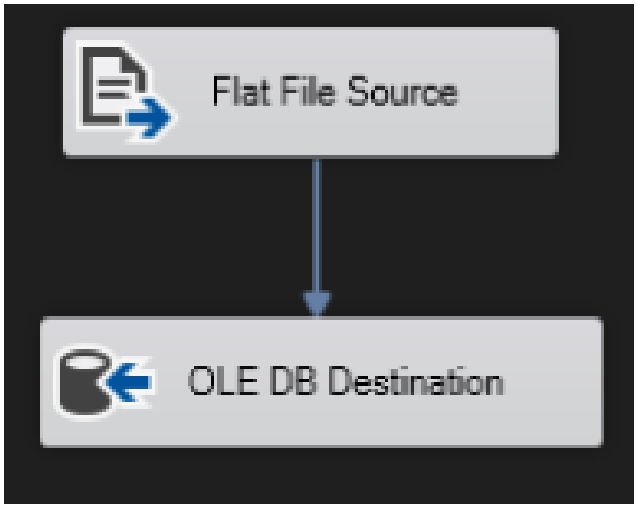
• Extract Data from a transactional table (e.g., SalesData) using an OLE DB Source.

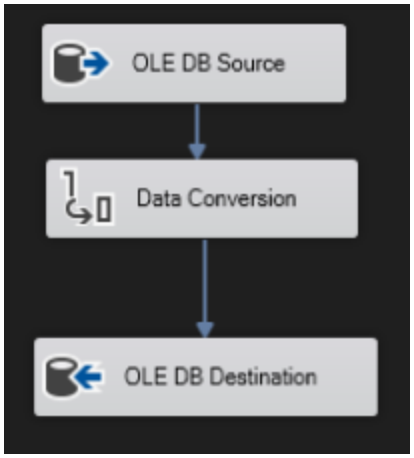
• Transform Data:

Apply necessary transformations such as data type conversions, data cleansing, and calculations.

• Load Data into the data warehouse (e.g., FactSales table).



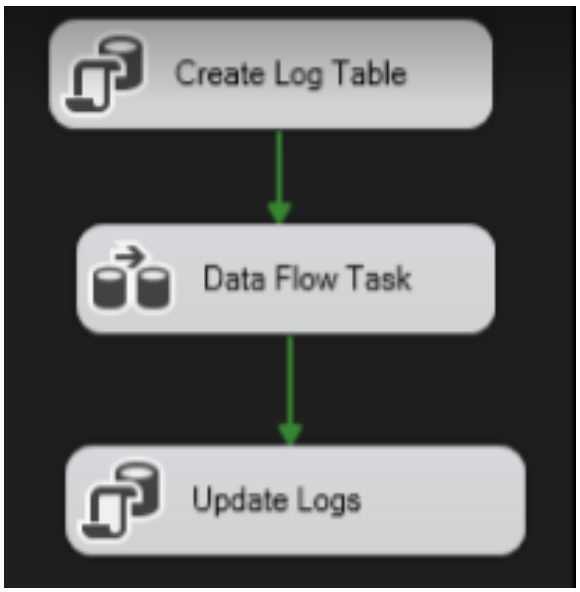


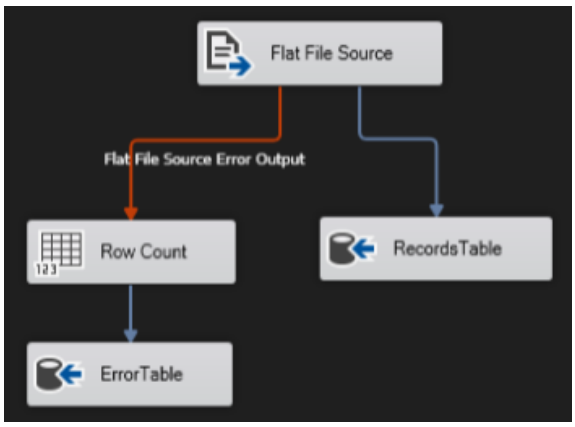


Task 2: Data Warehouse Migrations

• Create Connection Managers for both the source and destination data warehouses.
• Transfer Data from the source data warehouse to the destination using the Data Flow Task.
• Ensure Data Integrity:
• Include checks and balances to ensure data is correctly migrated.

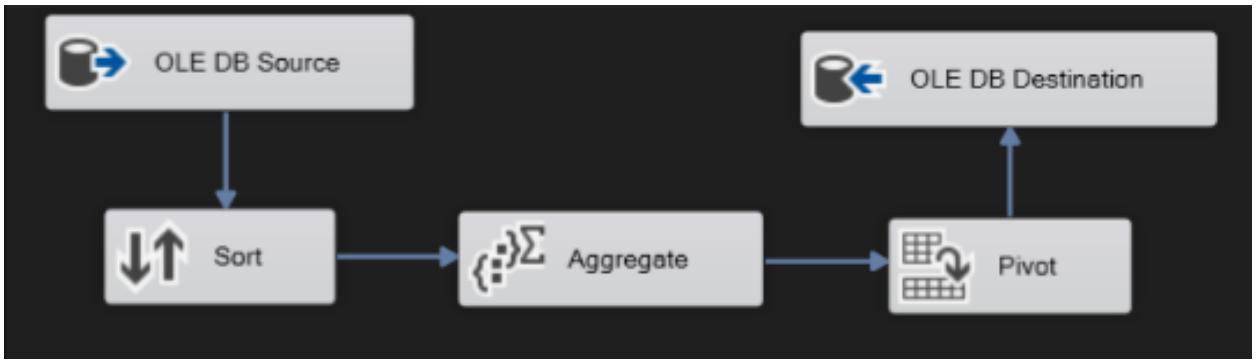
• Log the success or failure of the migration process.





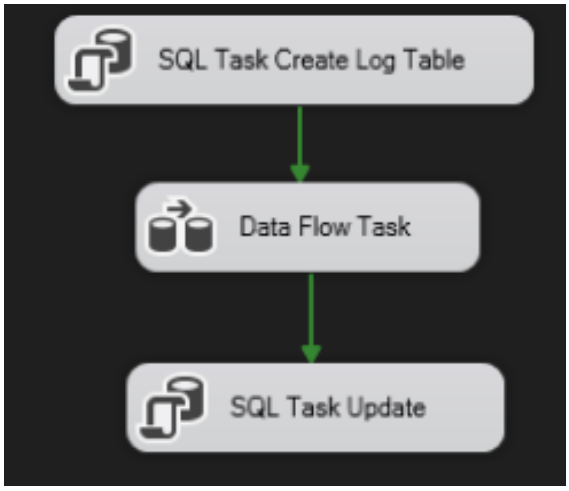
Task 3: Implementing a Pivot Transformation

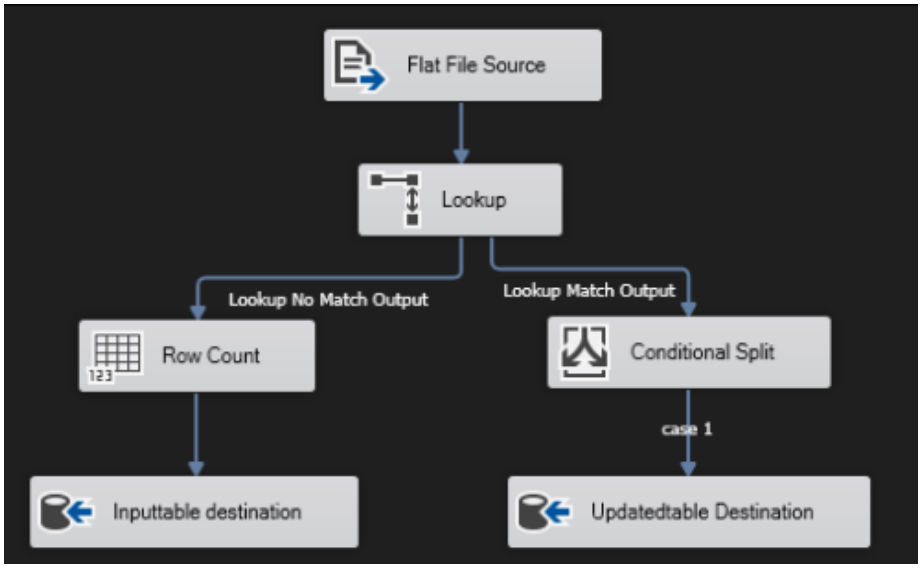
• Extract Data from the source table using an OLE DB Source.
• Apply a Pivot Transformation to transform the normalized data into a pivoted format.
• Load the Pivoted Data into a destination table.



Task 4: Incremental Load

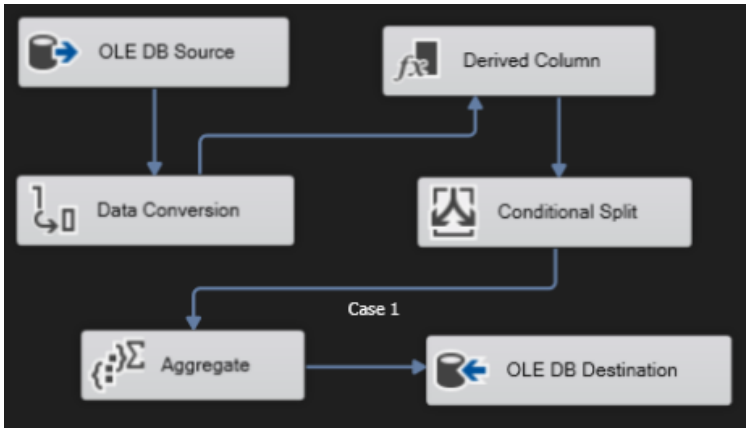
• Identify Changed Data: Use methods such as timestamps, change data capture using lookup, or checksums.
• Extract Only the Changed Data from the source.
• Update the Data Warehouse with the new and changed data only.





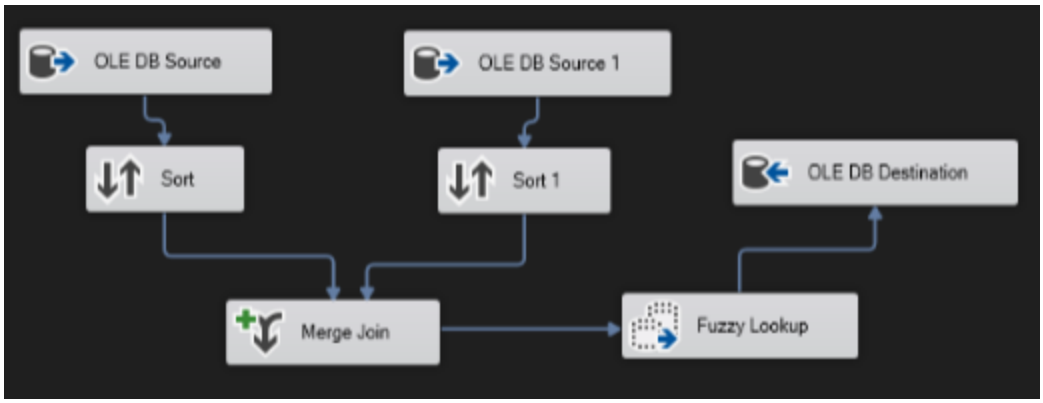
Task 5: Transformations

• Extract Data from a source table using an OLE DB Source.
• Apply Transformations such as:
• Data Conversion
• Derived Column
• Conditional Split
• Aggregate
• Load Transformed Data into a destination table.



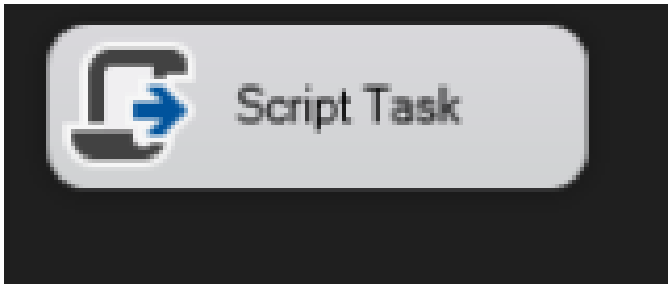
Task 6: MERGE & FUZZY LOOKUP

• Extract Data from two source tables using OLE DB Sources.
• Apply a Merge Join to combine the datasets based on a common key.
• Use Fuzzy Lookup to identify and resolve duplicates in the merged data.
• Load the Cleaned Data into a destination table.



Task 7: Using Script Task

• Add a Script Task to the Control Flow.
• Write a Script: that performs the required transformation. e.g. Reading data from a file, processing it, and
writing the results to a database table.
• Execute the Script Task within an SSIS package.


Script Task