Name - Harshit Parsai
Registration no. - 11702448
Roll no. - 06
Section - KM054
Question Number - 06
Subject - INT305

Informatica Data Integration (INT325)

Academic Task-2 - Report

Q6)
A) Create a mapping that performs the following operation using multiple transformations:

1.Display the countries whose sum of gold medals is more than 20

2.Display the countries who have won less than 10 medals till now

3.how many gold medal in swimming country wise

B)What is the difference between domain and node in informatica power center architecture?

Solution - >

For this solution in the coming pages i am attaching the snapshots and screenshots of the procedure and the practicals. I am explaining the procedure that we need to follow to do this question step wise step and then i will be putting the screenshots of the practical and the result of that as answer .

To do this question we must have our source file and the output files that we can create as per the requirement.

To import file in Informatica developer tool.

- Writing the steps here.

→ select the physical data object → select the flat files → choose the file location & file → click next → next & finish. Same steps for importing target files.

→ After importing we need to change the source file directory and target file directory,
C:\Informatica\10.1.1\server\infa_shared\SrcFiles\

→ After this we have to create a mapping to create a mapping right click on the folder in project then select new → mapping → give name to mapping then click finish and then open the mapping and.

→ drag the source file in mapping in read mode.

1) We need to display the country names whose sum of gold medals is more than 20.

→ select a aggregator connect the input from the source file's country & Gold as input and output, add a port in aggregator as Total_gold and add a group as country we can do this by simply navigating to Properties of aggregator and selecting port and groupby option.

→ Select a filter and connect the output of aggregator country and Total_gold to filter select the filter and go to properties and add a filter as Total_gold > 20 in condition

→ Drag the output file in writing mode and connect the output of filter to the output file; only country field.

→ Run the mapping by selecting the mapping and right click and run mapping.

→ To see the output run the output file in Data viewer.

→ After doing this we can clearly see the result.

2) we have to display countries who have won less than 10 medals till now.

→ As we already have our source file imported.

→ Select the aggregeator and connect country & total medal from the source to aggregeator. then add a port in aggregeator following the same steps as above. give that port a name Total-medal-country and add groupby-country.

→ Select the filter and add the output country and Totalmedal-country port from aggregeator to filter add filter condition as Totalmedal-country<10. following the same steps as above question

→ Add the output file in write node and add the country port from filter to output file.

→ Run the mapping by right-clicking on mapping and then run-mapping.

→ To view the result run the output file in data viewer you can see the output (result).

3) how many gold medals in swimming country wise

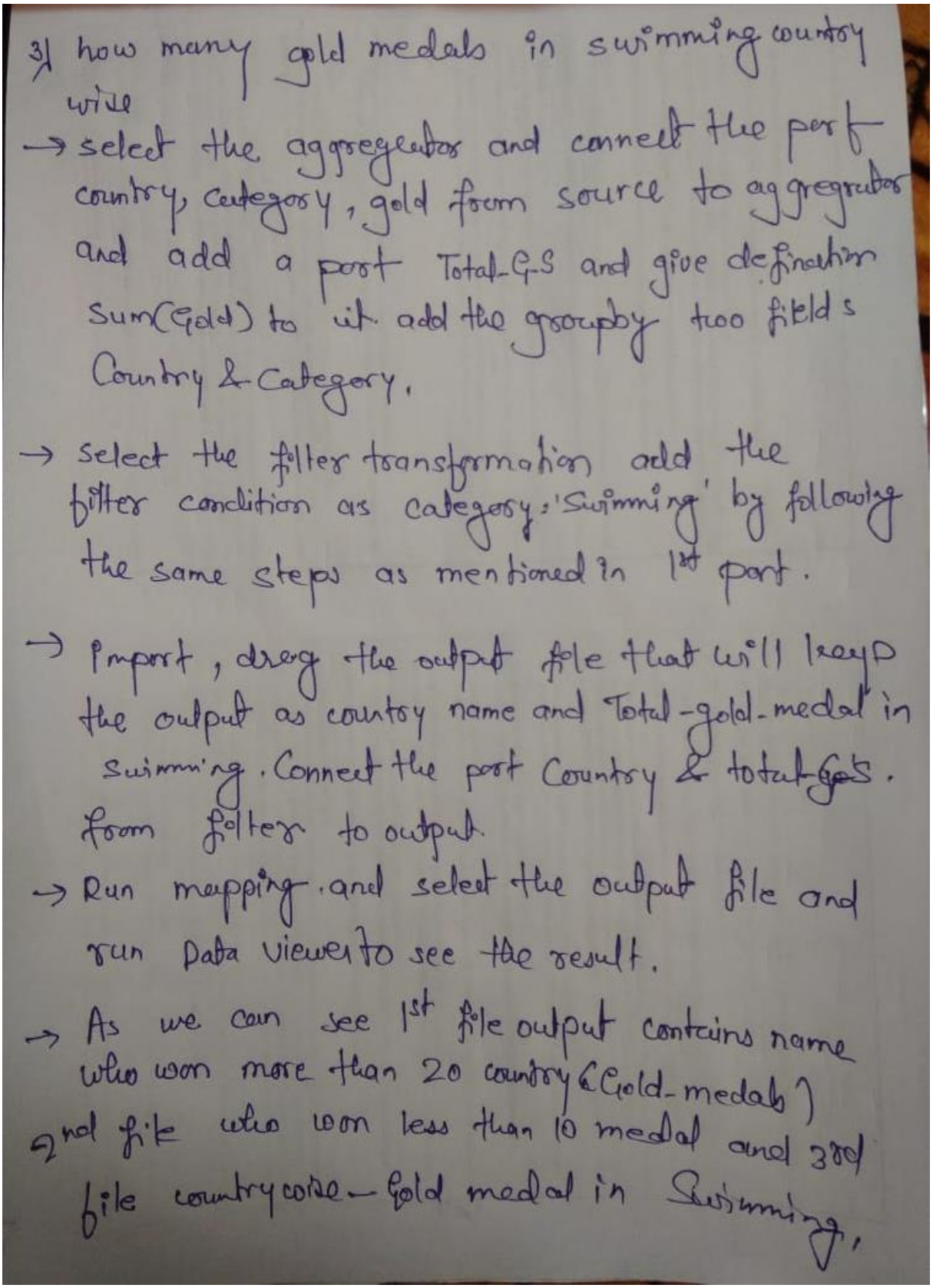
→ select the aggregator and connect the port country, category, gold from source to aggregator and add a port Total-G-S and give definition Sum(Gold) to it. add the groupby two fields Country & Category.

→ select the filter transformation add the filter condition as category: 'Swimming' by following the same steps as mentioned in 1st part.

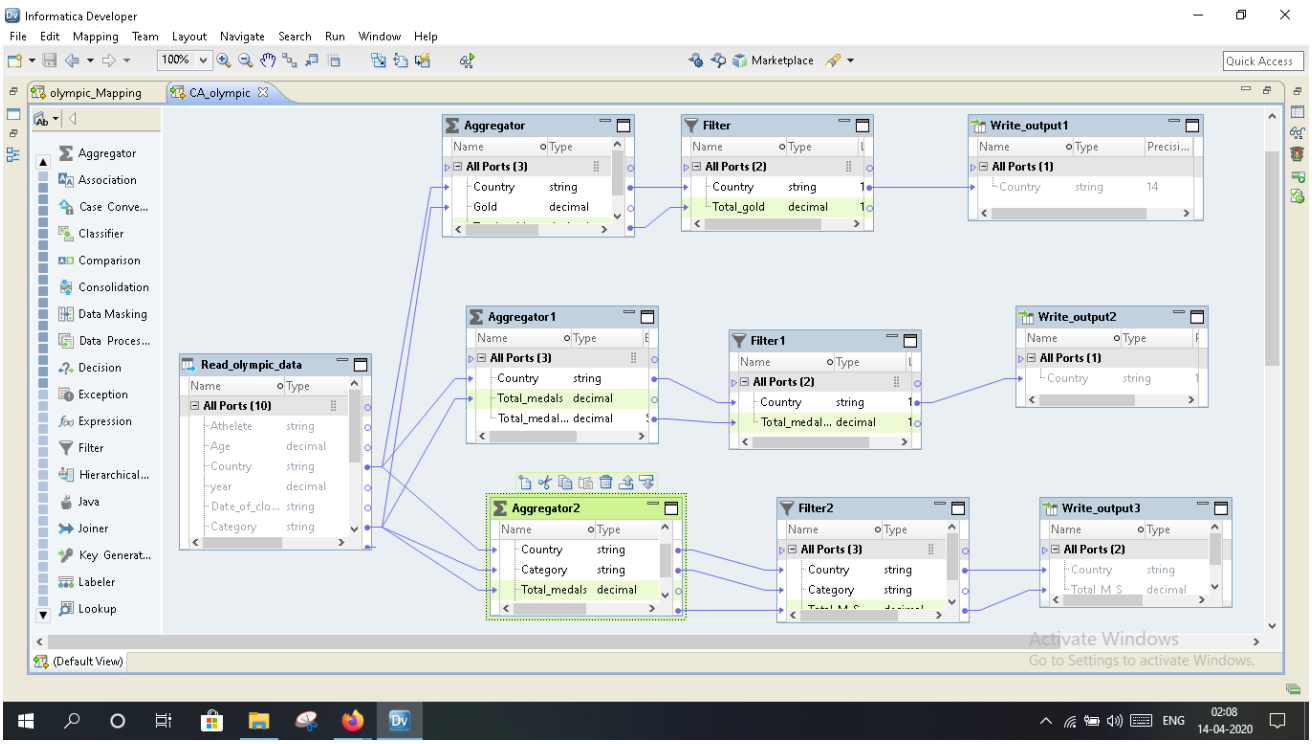
→ Import, drag the output file that will keep the output as country name and Total-gold-medal in swimming. Connect the port Country & total-gold from filter to output.

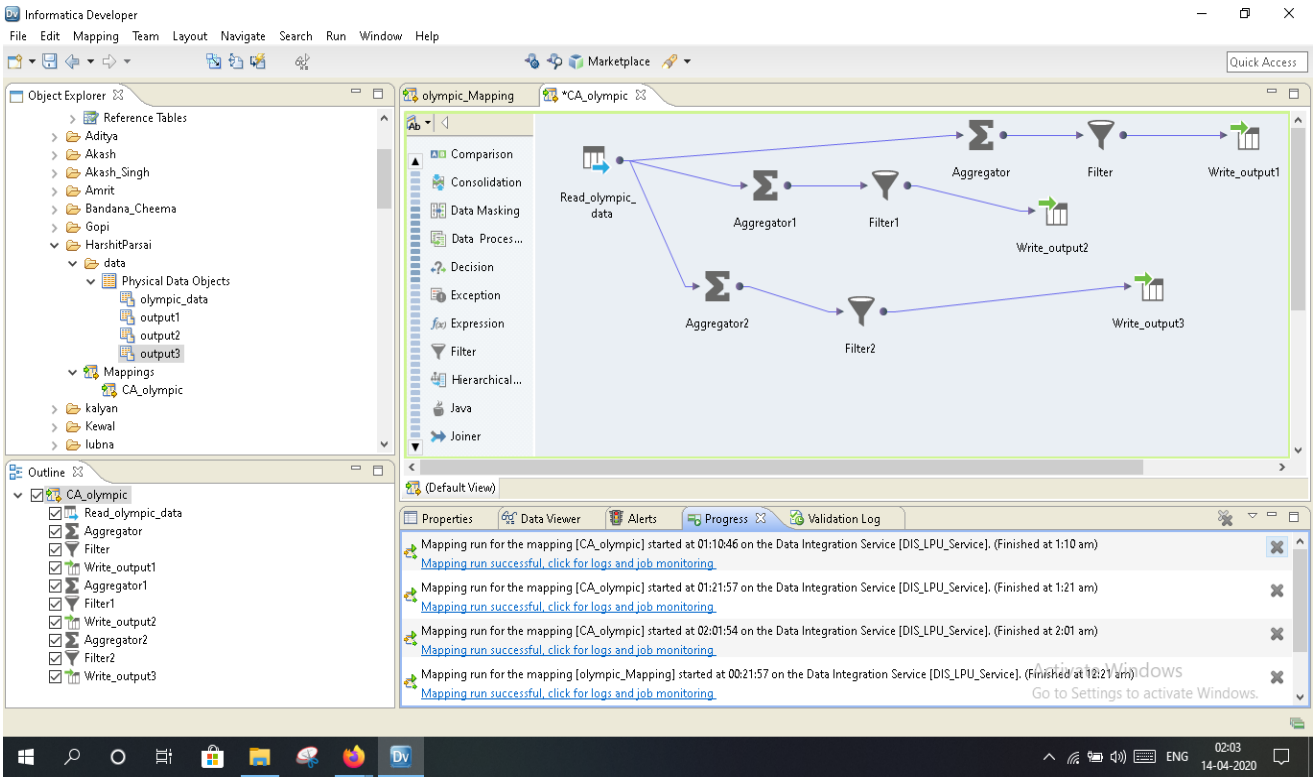
→ Run mapping. and select the output file and run Data viewer to see the result.

→ As we can see 1st file output contains name who won more than 20 country (Gold-medals)
2nd file who won less than 10 medal and 3rd file country wise - Gold medal in Swimming.

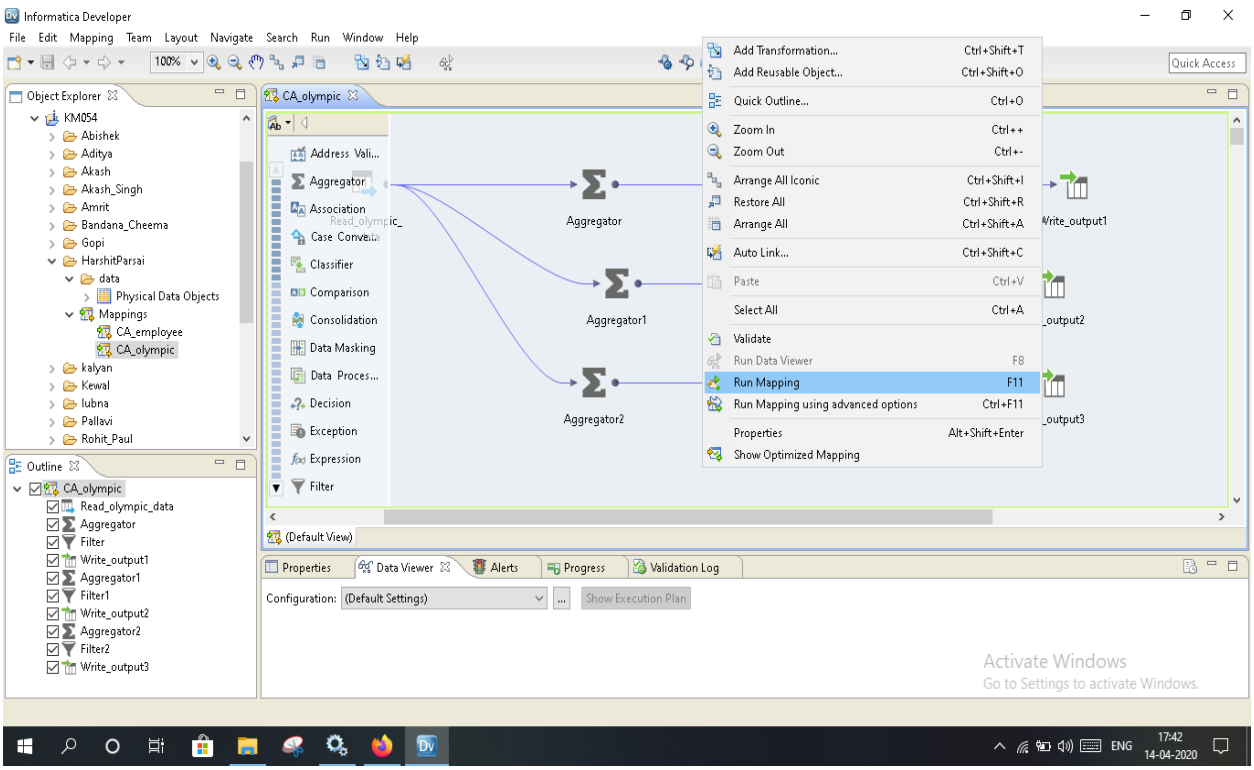


Screenshot of the final mapping using the multiple transformation and filteration

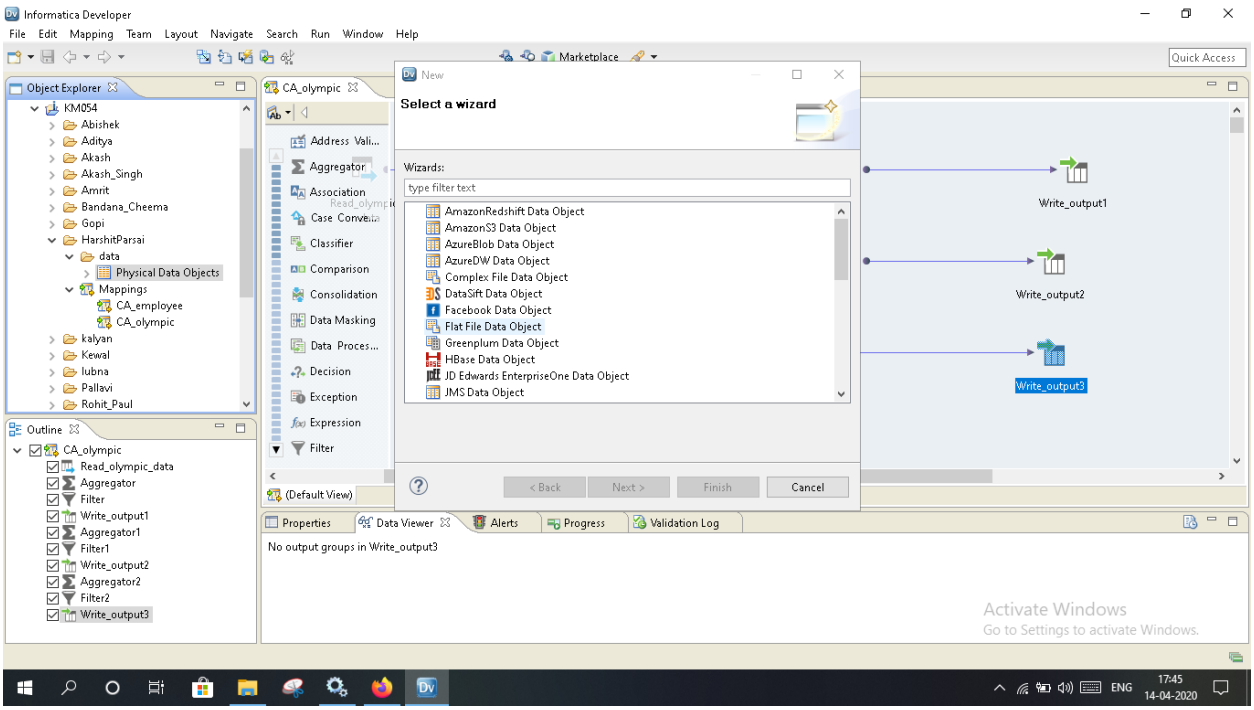




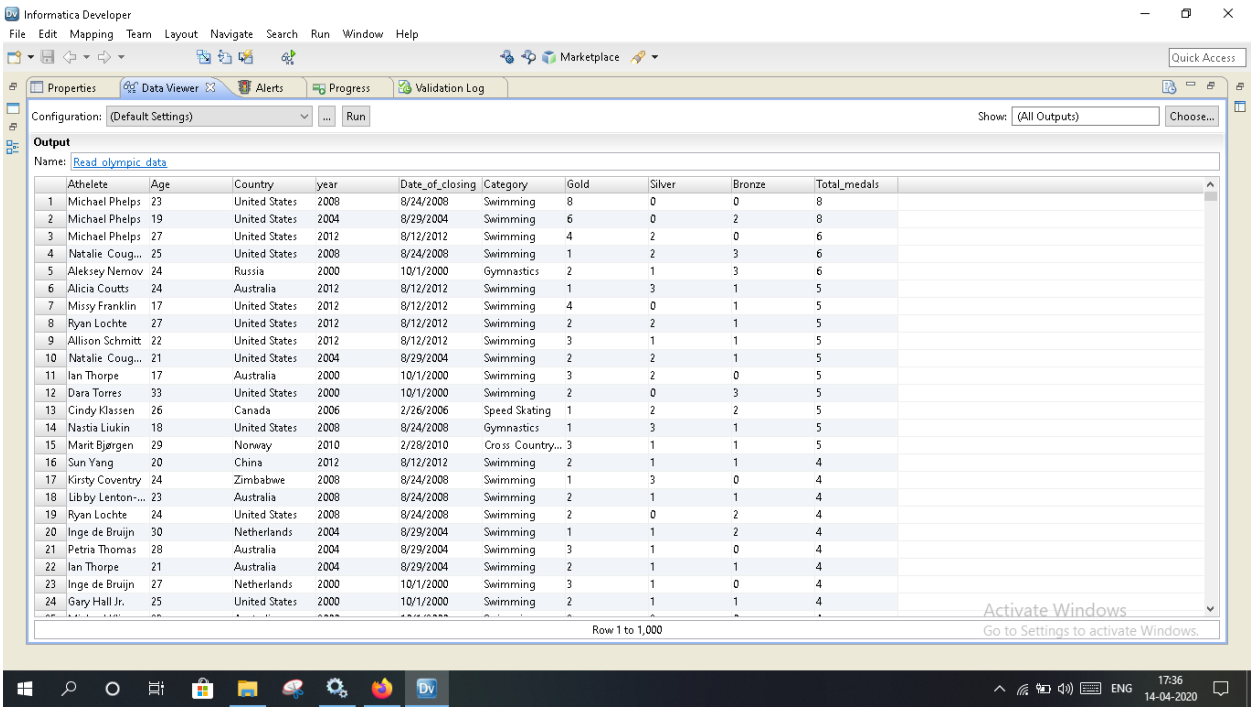
Screenshot of running the complete mapping that is made.



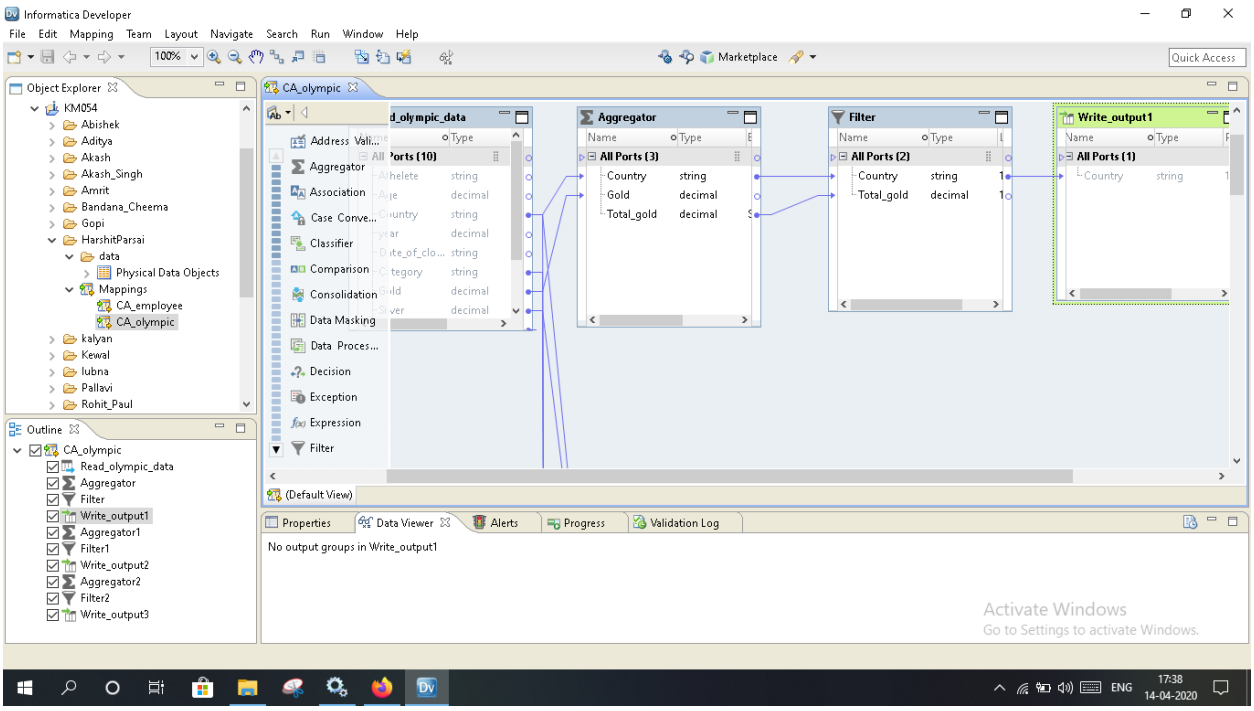
Screenshot of importing the files



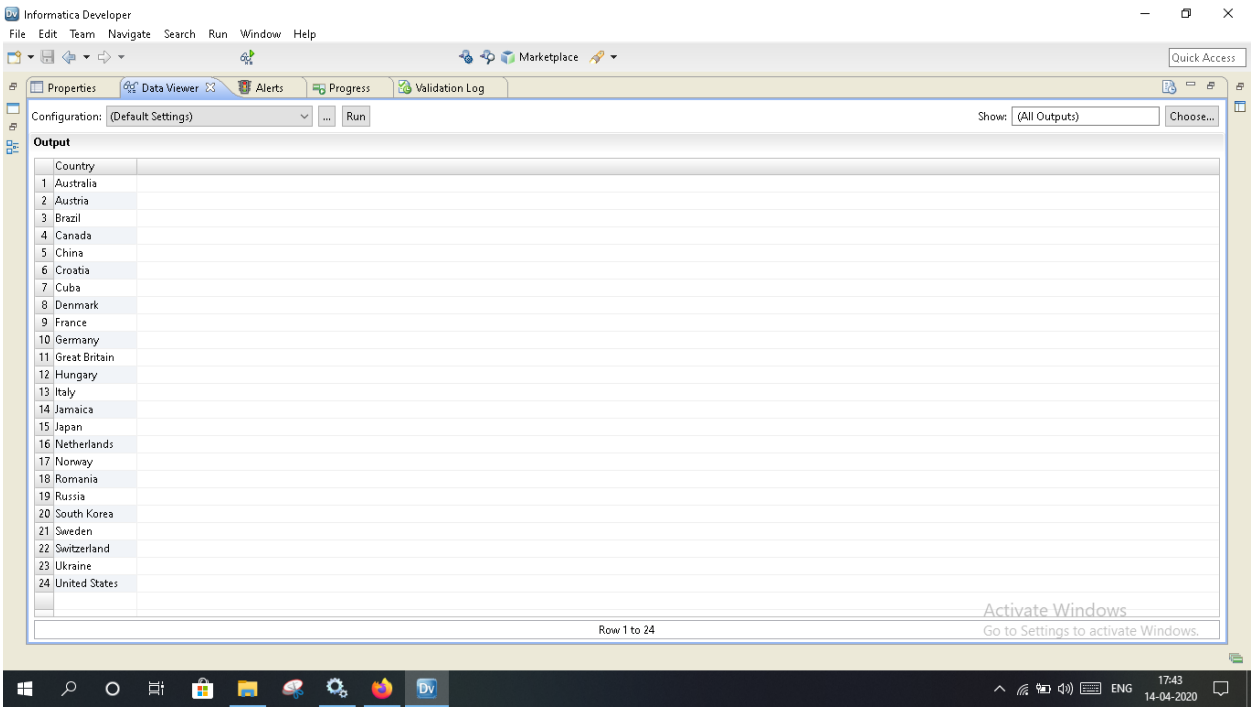
Screenshot of the Data in the source file



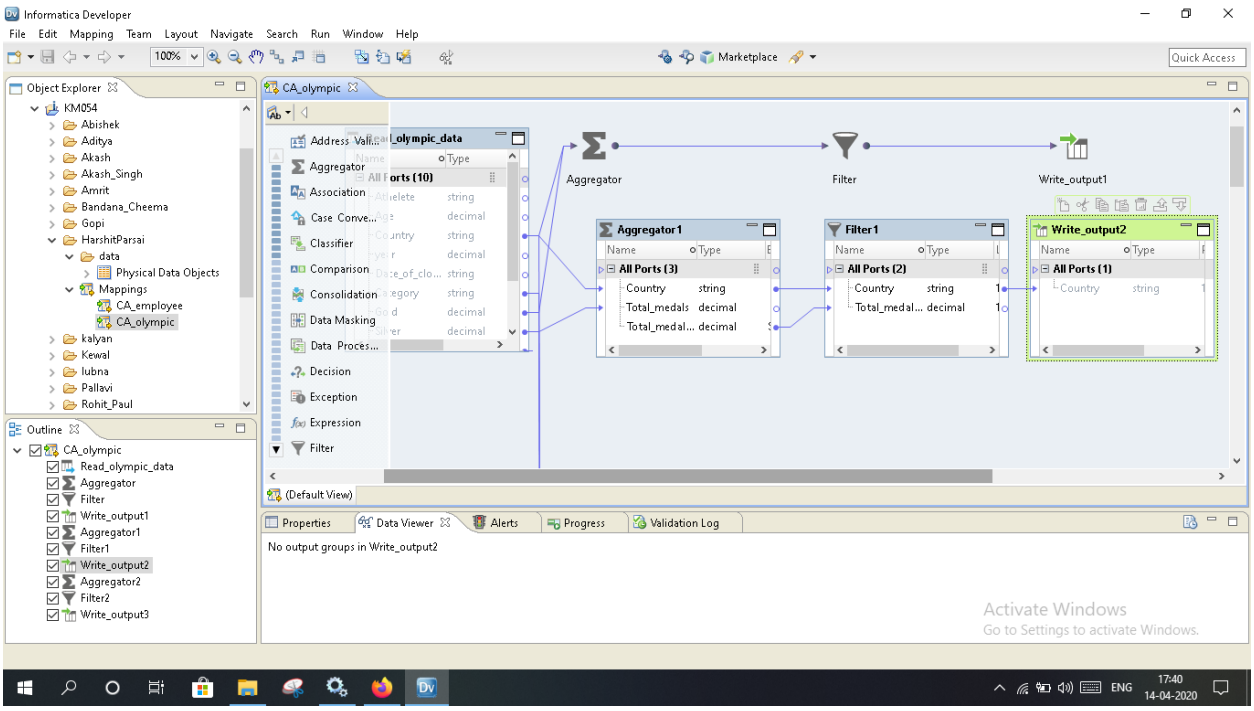
Screenshot of the first question mapping and transformation



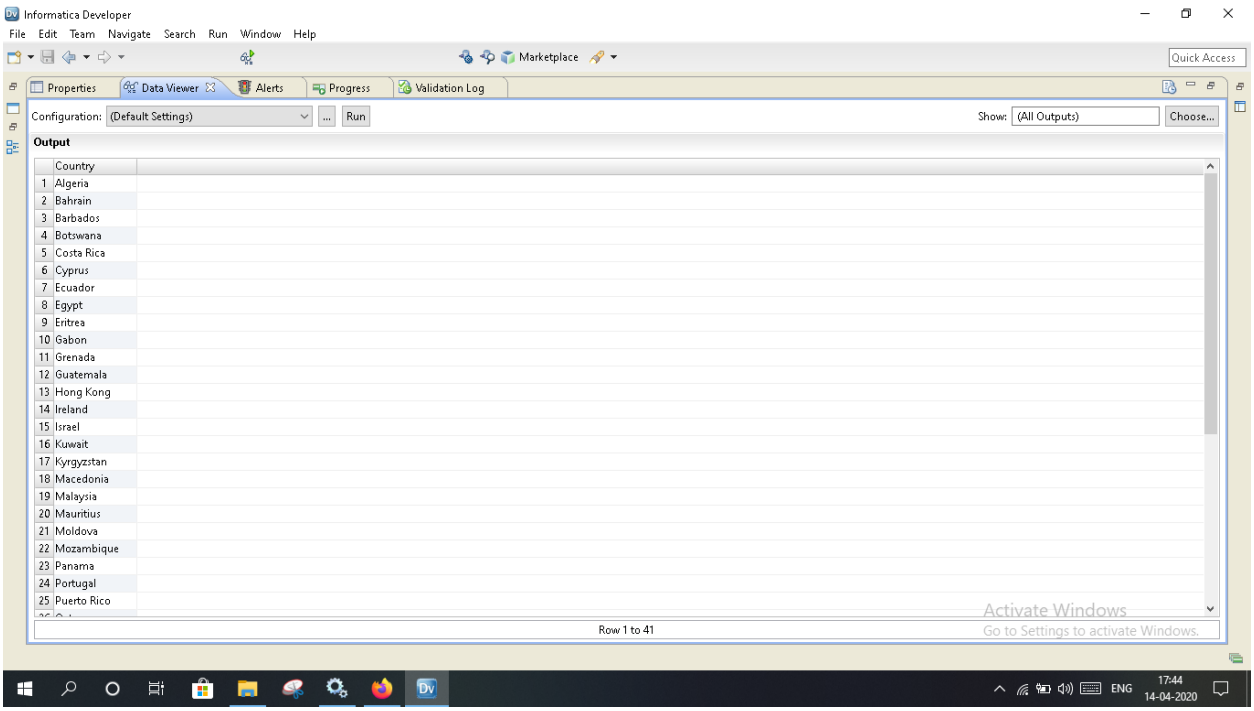
Screenshot of the result that we got after running the first question mapping and transformaiton : showing the countries who more than 10 gold medals



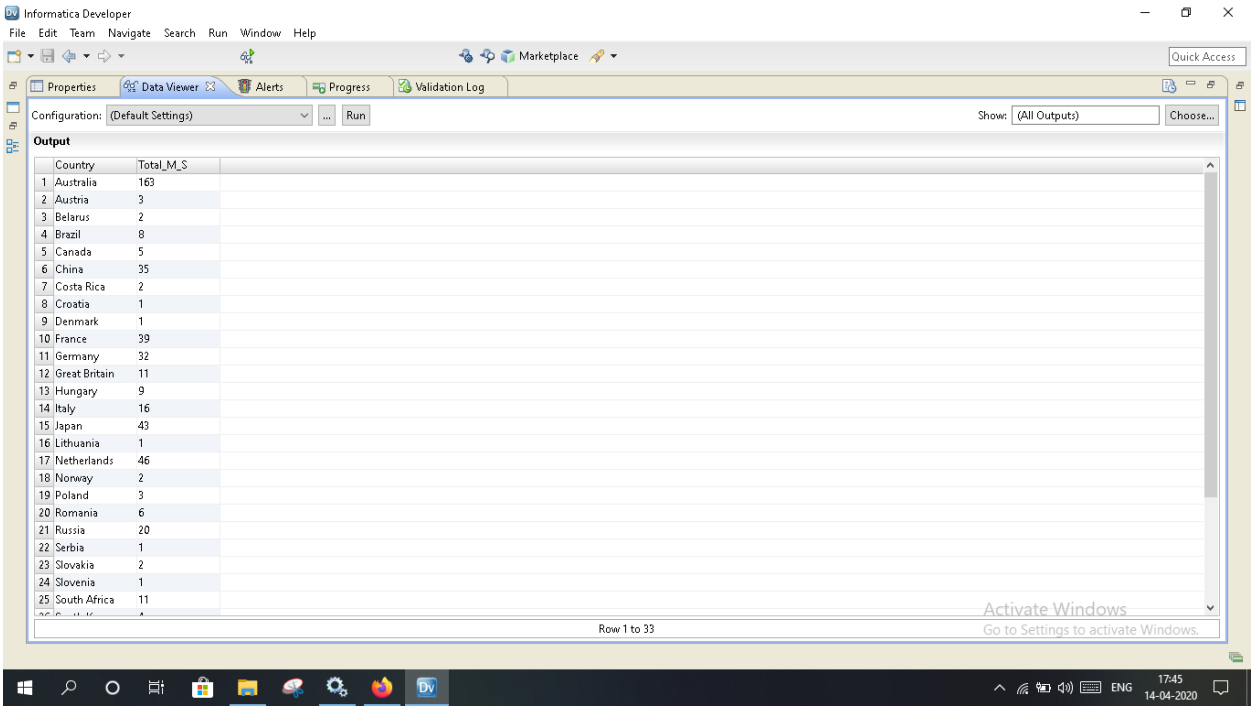
Screenshot of the mapping and the transformation of the second question



Screenshot of the result of the 2nd option in 1st question : showing the countries won less than 10 medals till now



Screenshot of the result of the 3rd option of this question : showing the country wise gold medal in the swimming



Solution B -)

→ Difference between the Nodes and Domain in informatica power center architecture.

Node	Domain
• Installation of informatica server on our machine then our machine acts as a node.	• Domain is a group of one of more informatica Nodes.
• Nodes can be of two types Gateway node or Worker node.	• Only the node which is running as master gateway node is considered to be domain.
• Nodes are used to perform the operation and processes on domain	• Domain forms the environment upon which the informatica processes run.
• Node is the machine where the stuff runs	• Domain is where the node keeps stuff.

Node

- Node connects to the Domain database using JDBC. It does not use ODBC.

- If a node goes down in a domain with multiple node domain with more than two gateway node where the master gateway dies, the remaining node becomes master gateway node.

- We can clearly say that Nodes are logical representation of machine in the domain.

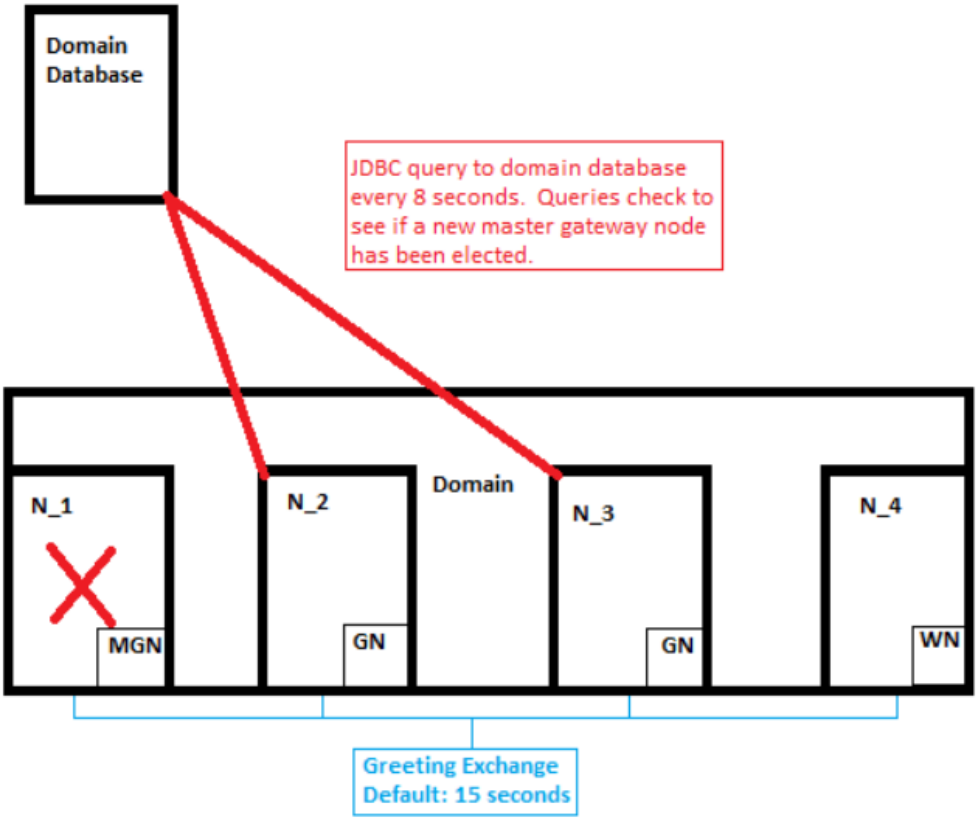
Domain

- Domain Database is a standard relational database. The domain database is "backbone" that supports movement in domain. and stores records and services.

- Domain remains active till it gets any issue with the Database. but if there is a issue in the Domain then it affects the entire connection and nodes connected to it

- A domain is collection of Node, services and databases.

Best Picture demonstrating the domain and the node difference :-



THANKYOU