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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 target files in our source and directory

To import file in PowerCenter Designer tool.

- writing steps here

→ select source → Import from a file → select the file you want to load → Import field from first line → select Delimiter as Comma → hit next → Finish.

→ Same steps can be followed to import target files. except select source will be changed to target

→ Creat a mapping → mapping → create mapping → give name

→ Drop and drag our source and target files to mapping designer

→ After following above steps we are ready to go for our solution.

1) For this we need to display the country names who sum of gold medals is more than 20.

→ Add a Aggregeator after the source file → select the country and Gold field from source file drag it to aggregeator → edit the aggregator → add a port name Total-gold → check the Groupby box by country → Give Expression in Total-gold port as "SUM(Gold)" → click Ok

→ After aggregeator add a filter transformation select Country & Total Gold from aggregator drag it to filter → open filter → properties → filter condition → Total Gold > 20 → click ok.

→ Select the Country column (port) from filter and add it to our output.

→ When we will run the mapping using workflow our output file will have country Name which has won more then 20 go We will run it later. after 2 more transformation.

2] We have to display the country name who have won less than 10 medals till now.

→ Add another Aggregator into the mapping after the source file → select Country & total_medal from source file and drag it to aggregeator → edit aggregeator → add a port name Total_M_C → check right to groupby country → Give expression in Total_M_C as "Sum(totalmedal)" → click ok.

→ After aggregeator add a filter transformation select Country & Total_M_C from aggregeator and drag it to filter → open filter → Properties → filter condition → Total_M_C<10 → click OK.

→ Select country column from filter and drag it to the output file.
this output2 file file will be having names of the country which have won less than 10 medals till now.

3) We have to display how many gold medal in swimming country wise.

→ Add a aggregator after the source file → select country, category, Gold from source and drag it to aggregator → edit the aggregator → add a port Total_G_S → give expression as "SUM(Gold)" → check right to the check box of country and category → click Ok.

→ Add a filter after aggregator → drag the country, category, Total_G_S from aggregator to filter → open filter → properties → filter condition → Country=Category=Swimming → click OK.

→ Select Country, Total_G_S from filter and drag it to output 3 file.
This file will have total gold Country wise.
To run this mapping steps are ahead.

To run the mapping follow the below steps.

→ To run this mapping save the mapping and create a workflow.

→ To create a workflow → right click → Generate work → workflow with non-reusable session → next → finish. our workflow will be created

→ open workflow monitor → open our workflow → double click the workflow → go to mapping → go to source → difine the source file directory → difine the target files directory → hit apply → ok → ctrl +S to save.

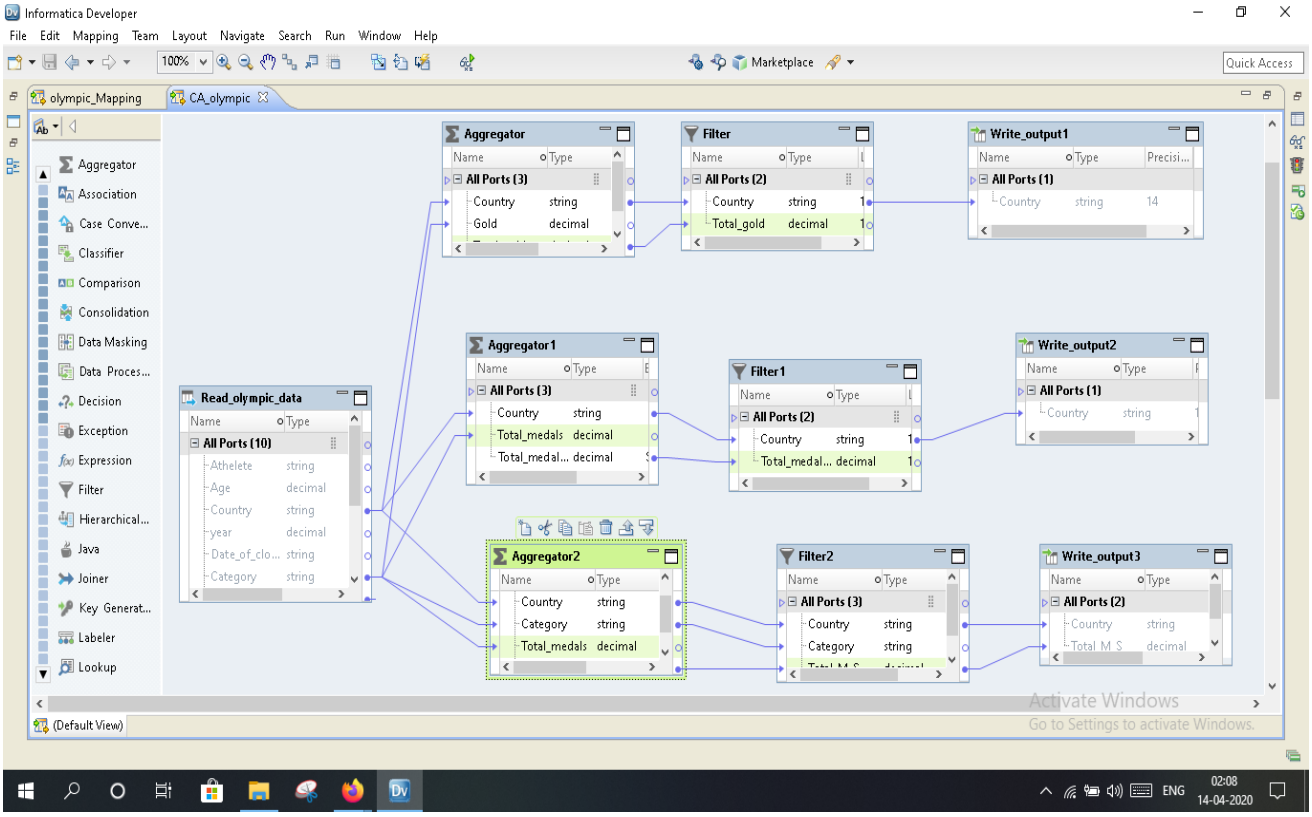
→ right click → start workflow →

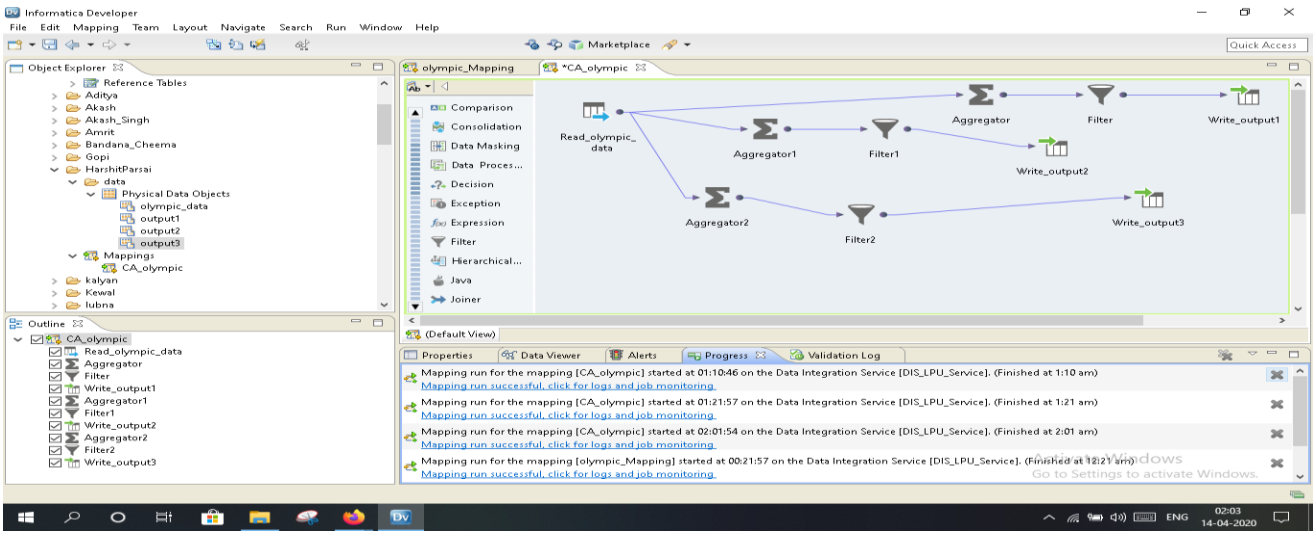
→ After this we can see our mapping is succeeded. If we have a look at our target files that is Output1, output2, output3 we can see the required result

Thankyou.

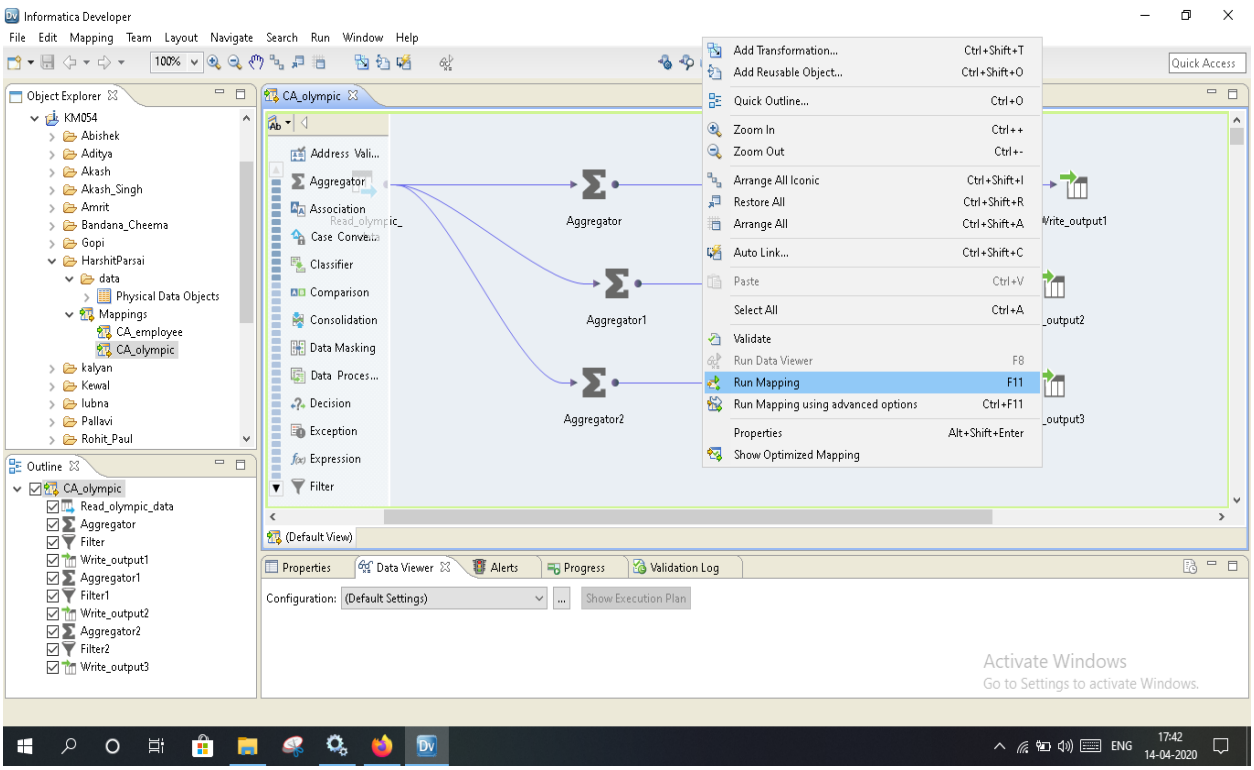
The Practical I have done in the developer And steps are written for Power Center->

Screenshot of the final mapping using the multiple transformation and filteration

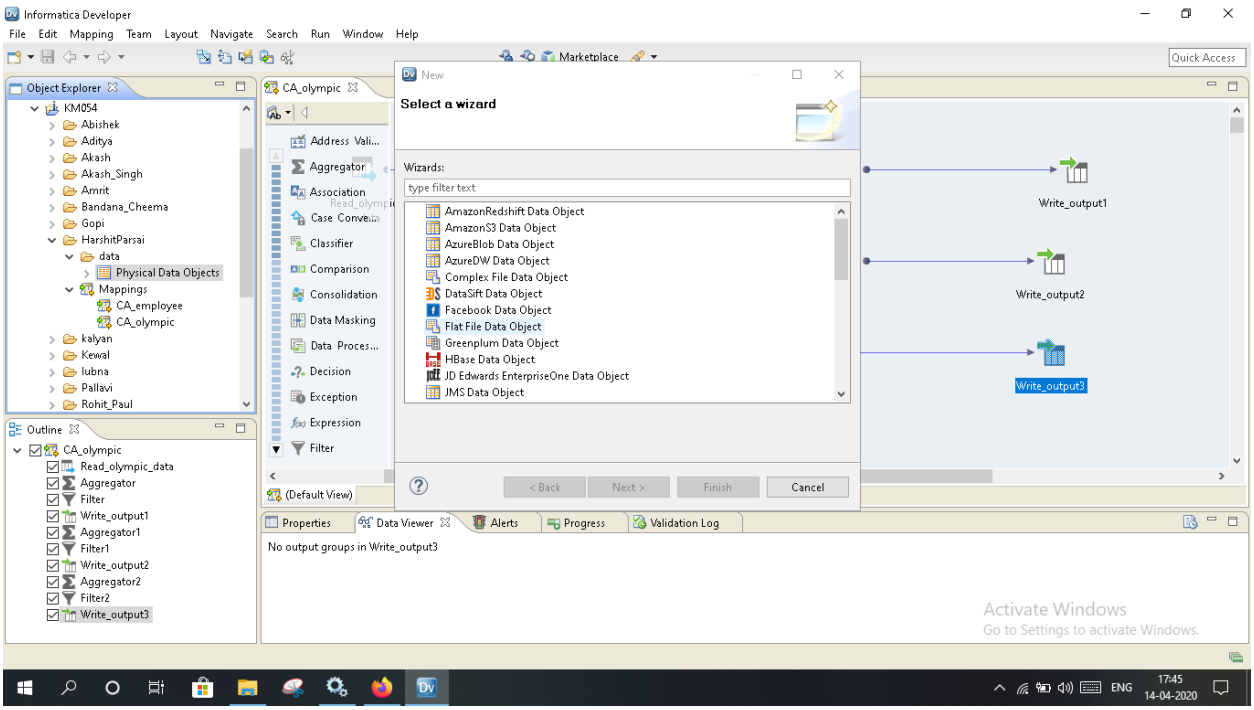




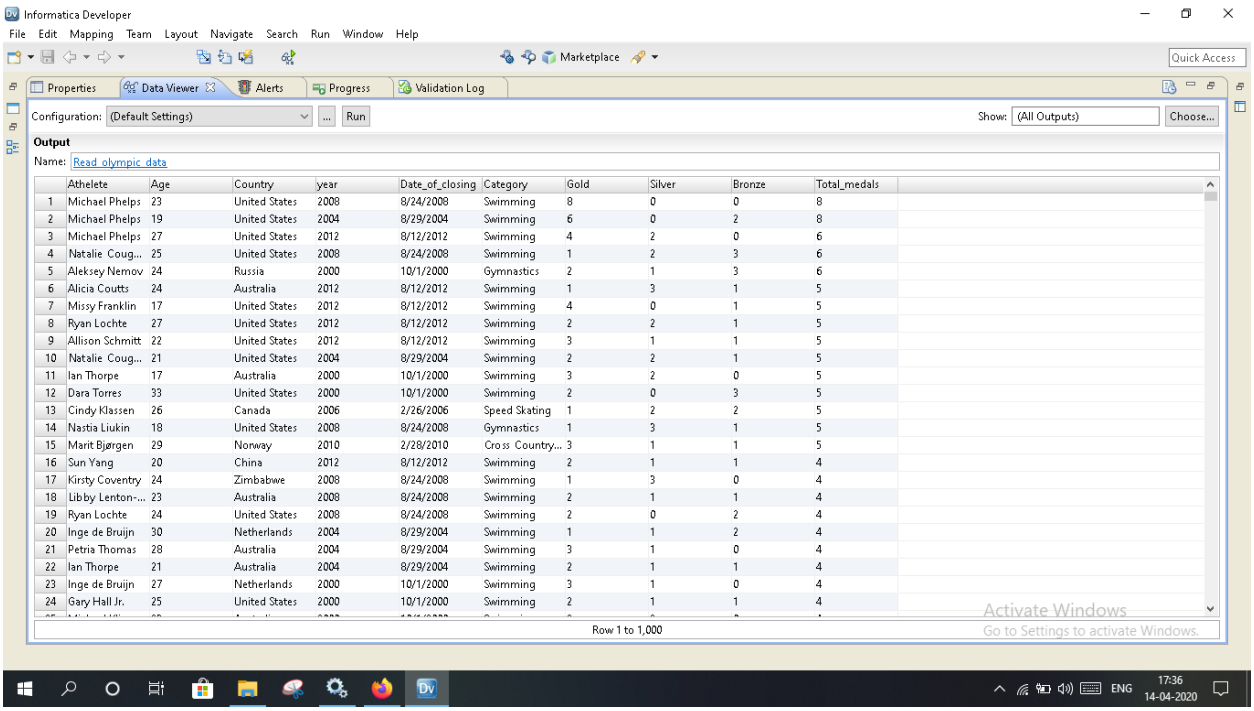
Screenshot of running the complete mapping that is made.



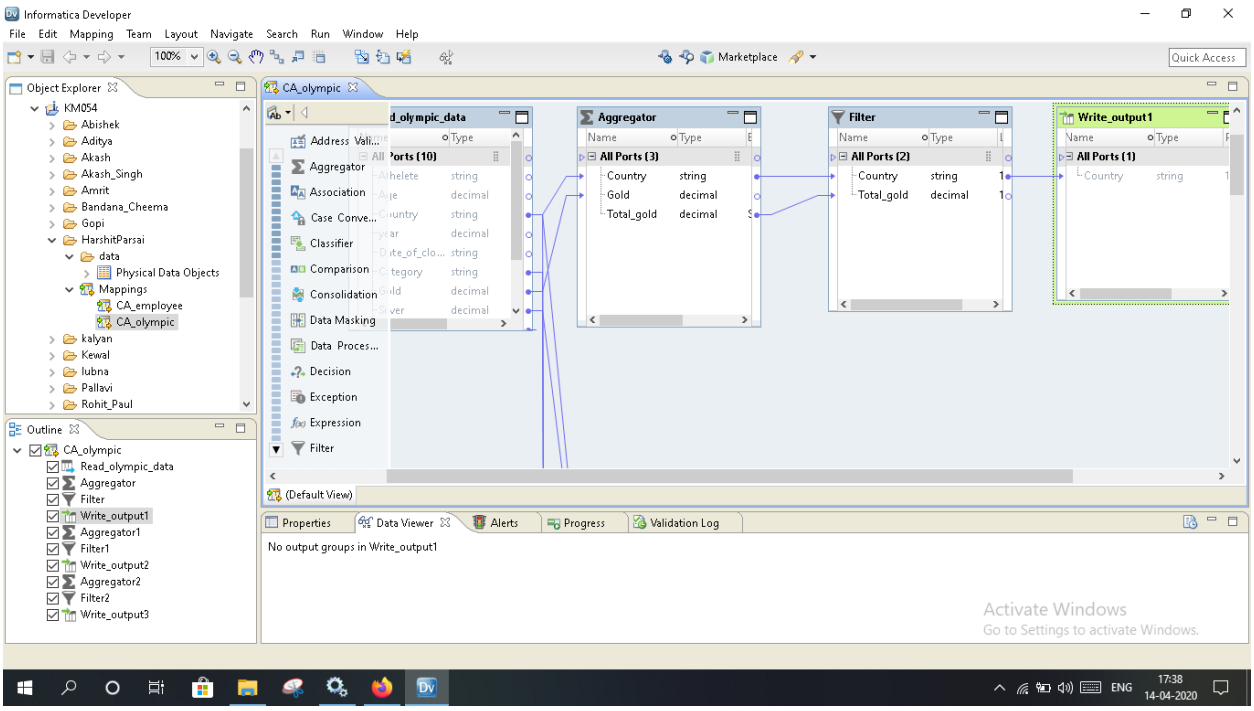
Screenshot of importing the files



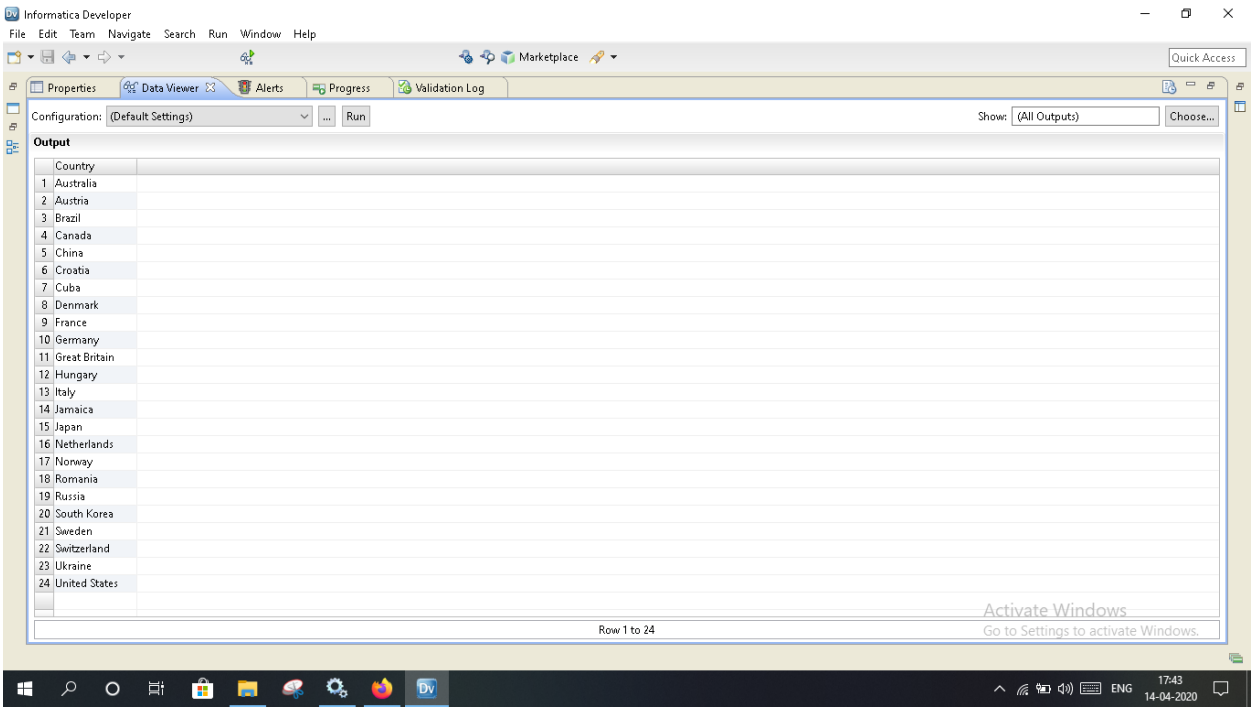
Screenshot of the Data in the source file



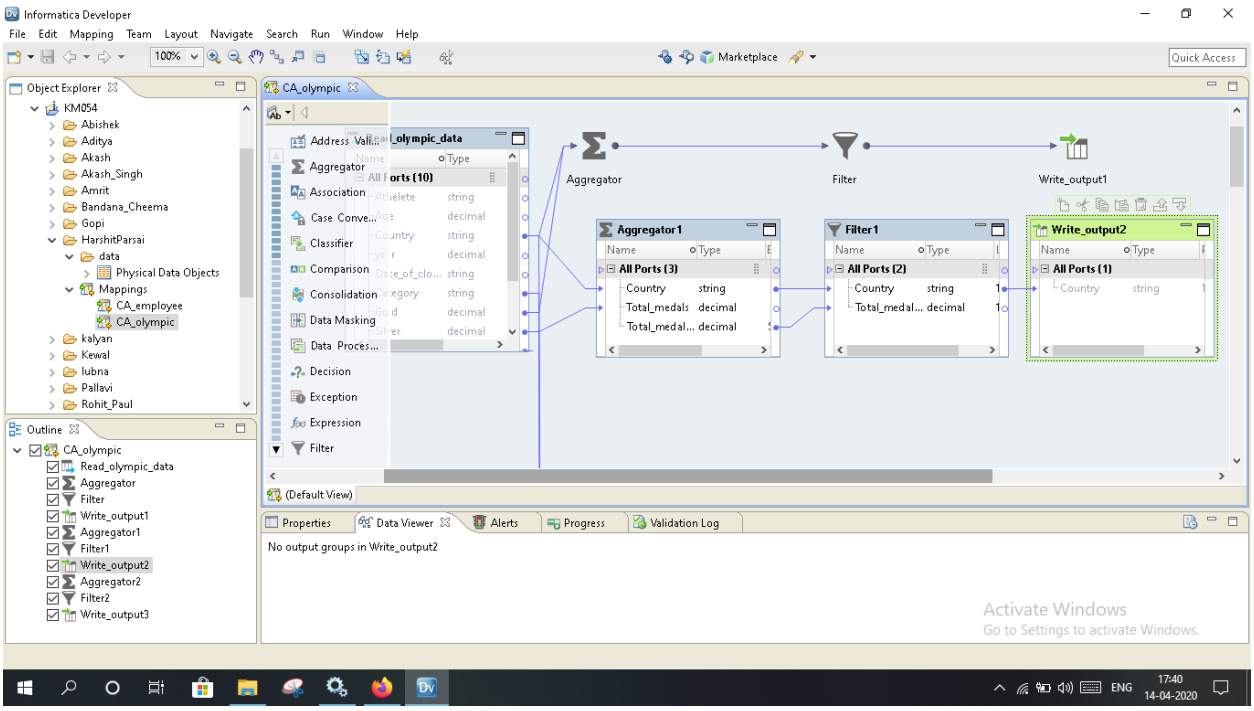
Screenshot of the first question mapping and transformation



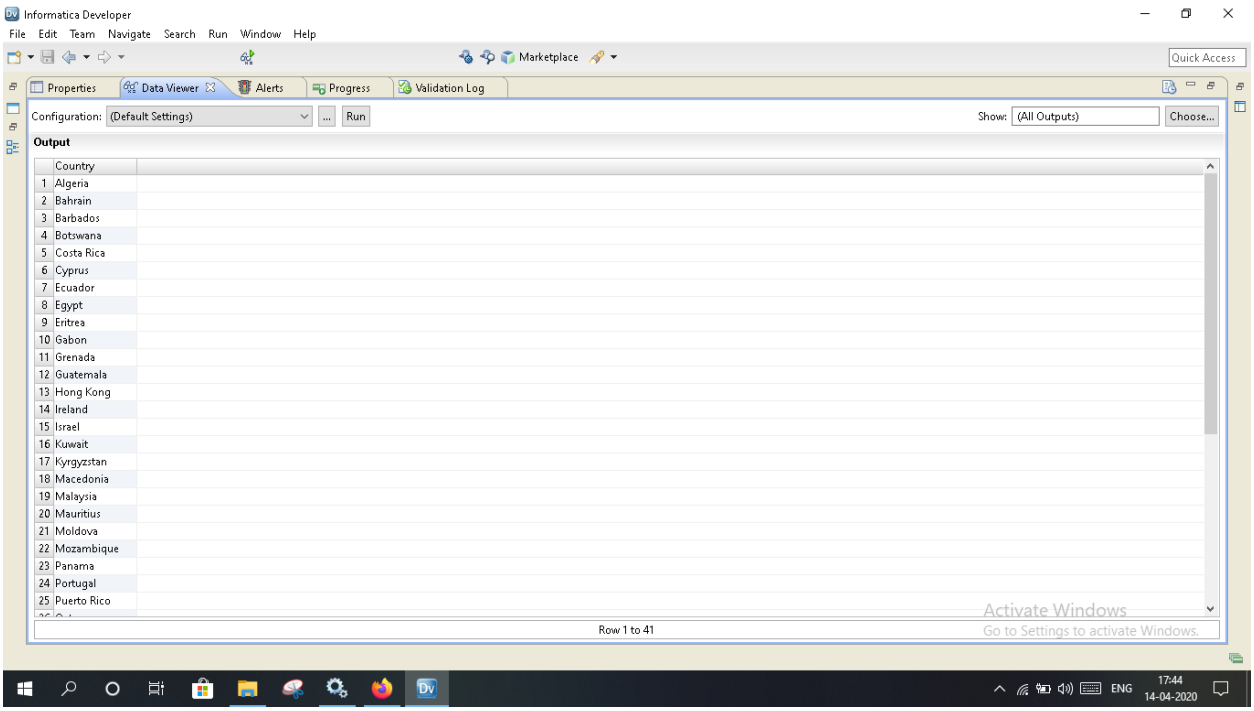
Screenshot of the result that we got after running the first question mapping and transformaiton : showing the countries who more than 10 gold medals



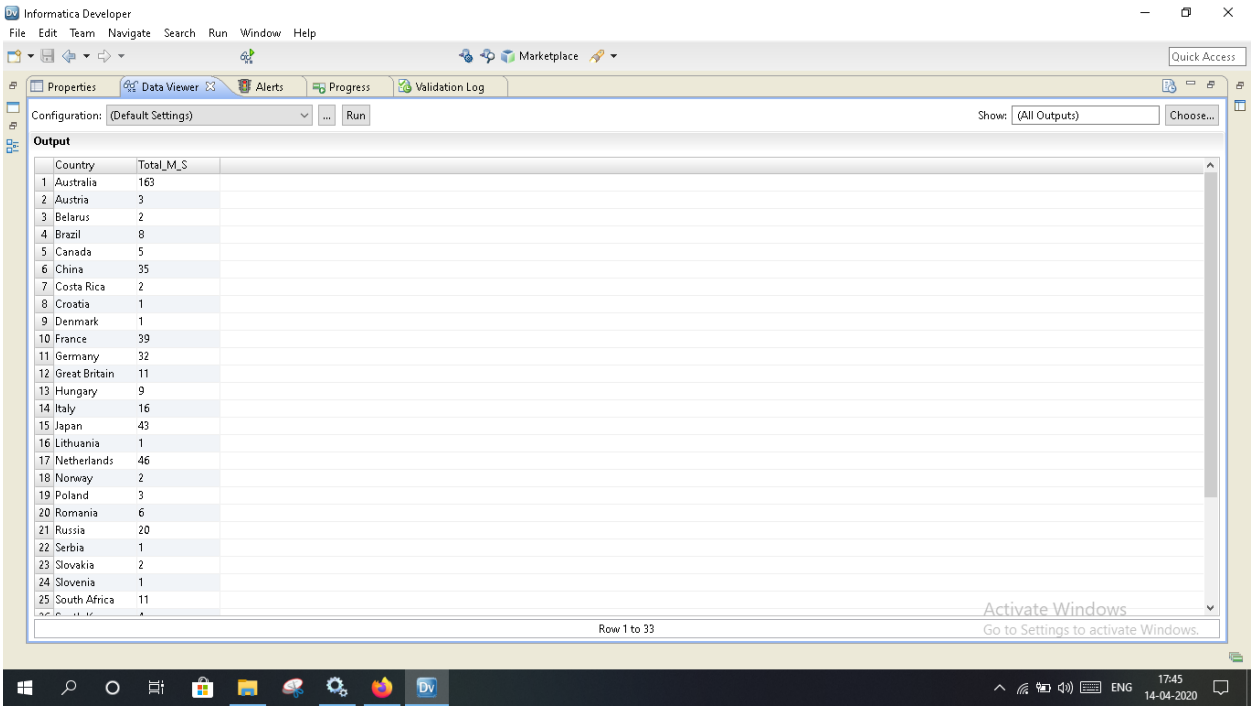
Screenshot of the mapping and the transformation of the second question



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 staff.

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.

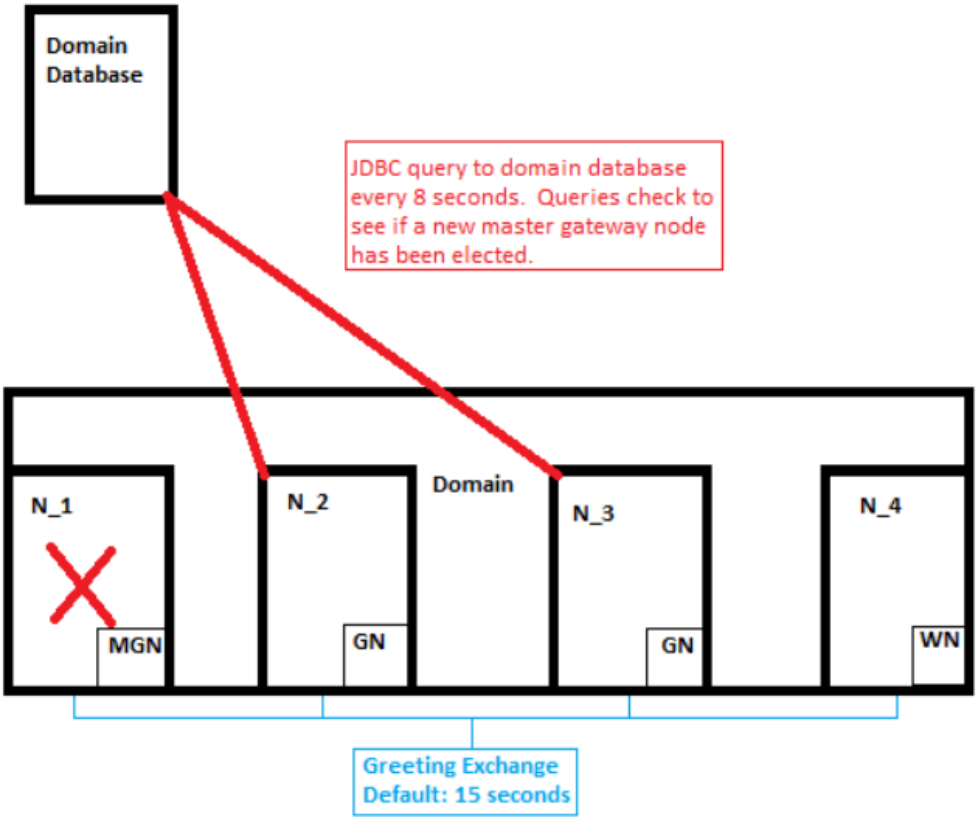
Domain

- 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.