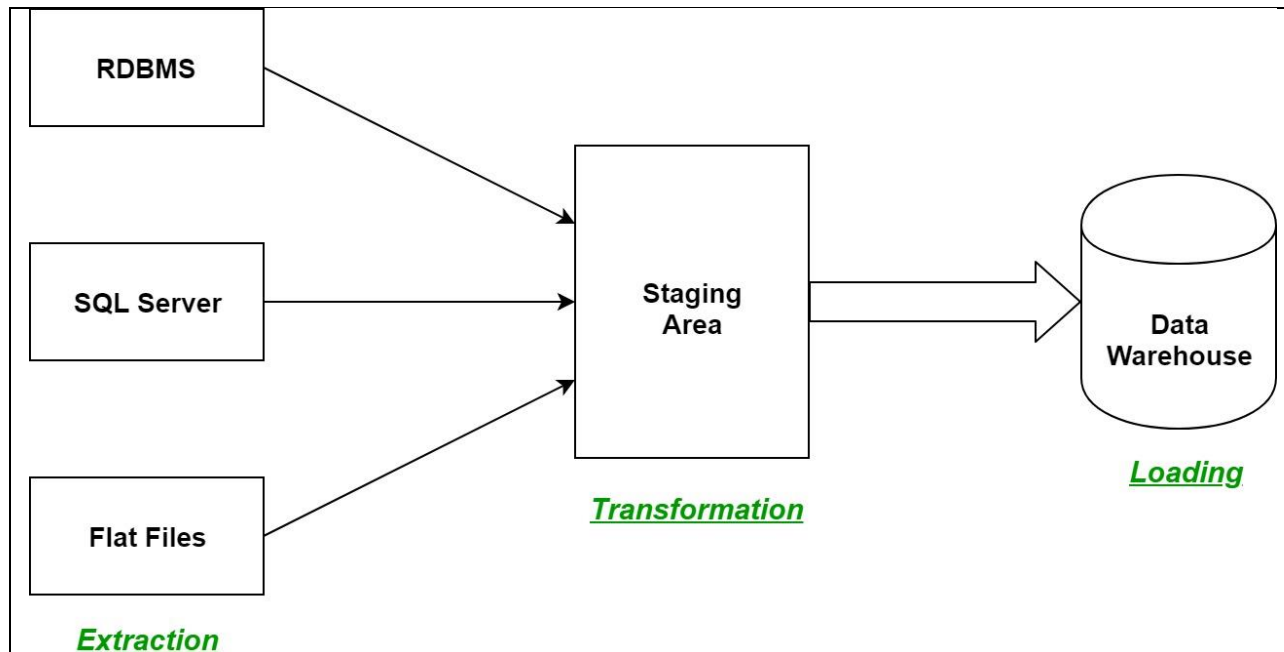


Practical No.2

Perform the Extraction Transformation and Loading (ETL) process to construct the database in the Sqlserver.

ETL(Extract, Transform and Load)

- ETL is a process in Data Warehousing and it stands for Extract, Transform and Load.
- It is a process, in which an ETL tool extracts the data from various data source systems, transforms it in the staging area and then finally, loads it into the Data Warehouse system.

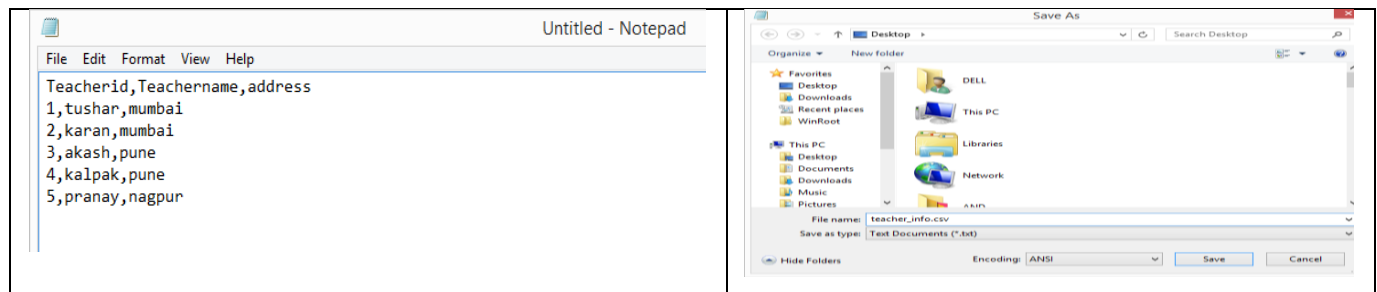


Note : For Practical No.2 we have to create .CSV file as source for ETL process.

Step1 : Open notepad, and add the following records and save the file with name teachers.csv

Comma-Separated Values(.CSV file)

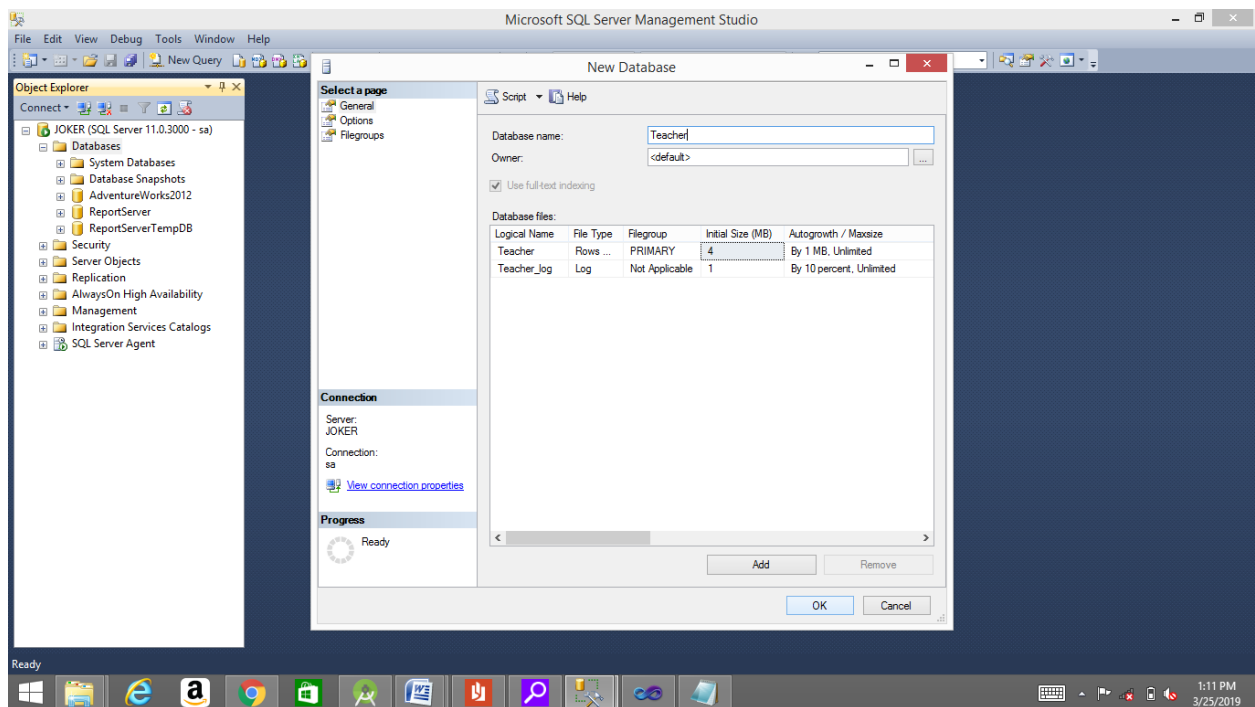
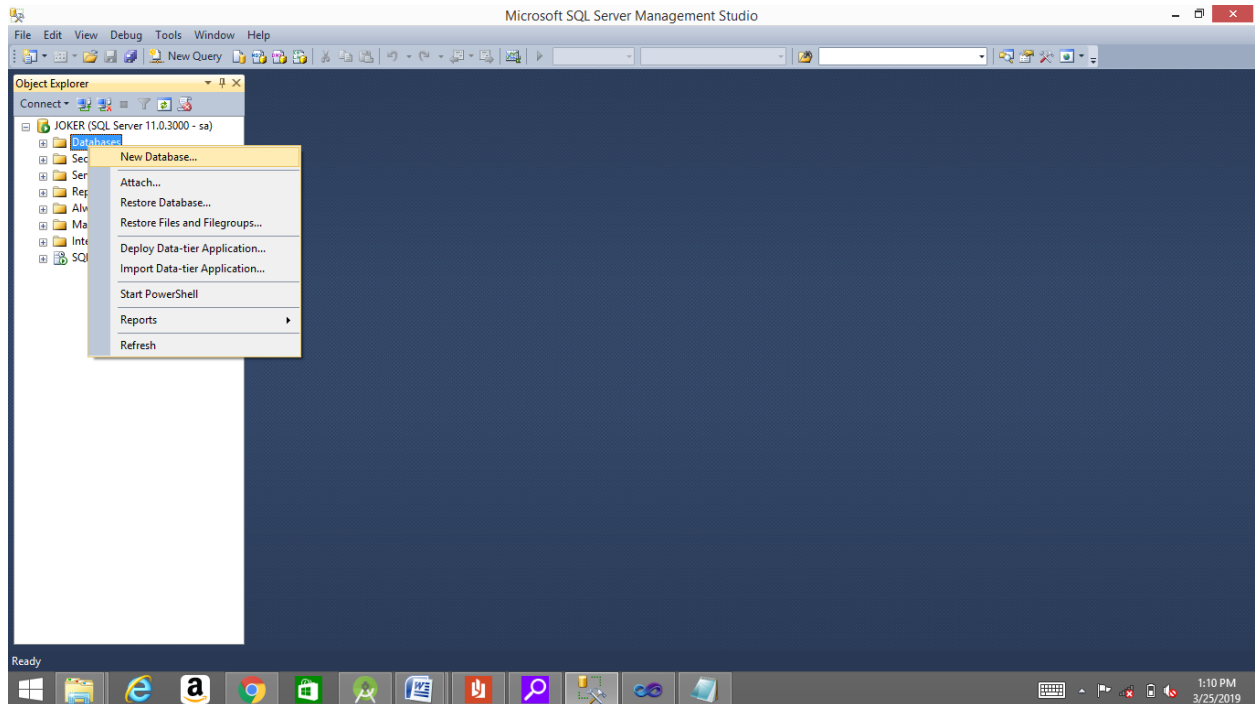
A comma-separated values file is a delimited text file that uses a comma to separate values. Each line of the file is a data record. Each record consists of one or more fields, separated by commas. The use of the comma as a field separator is the source of the name for this file format.

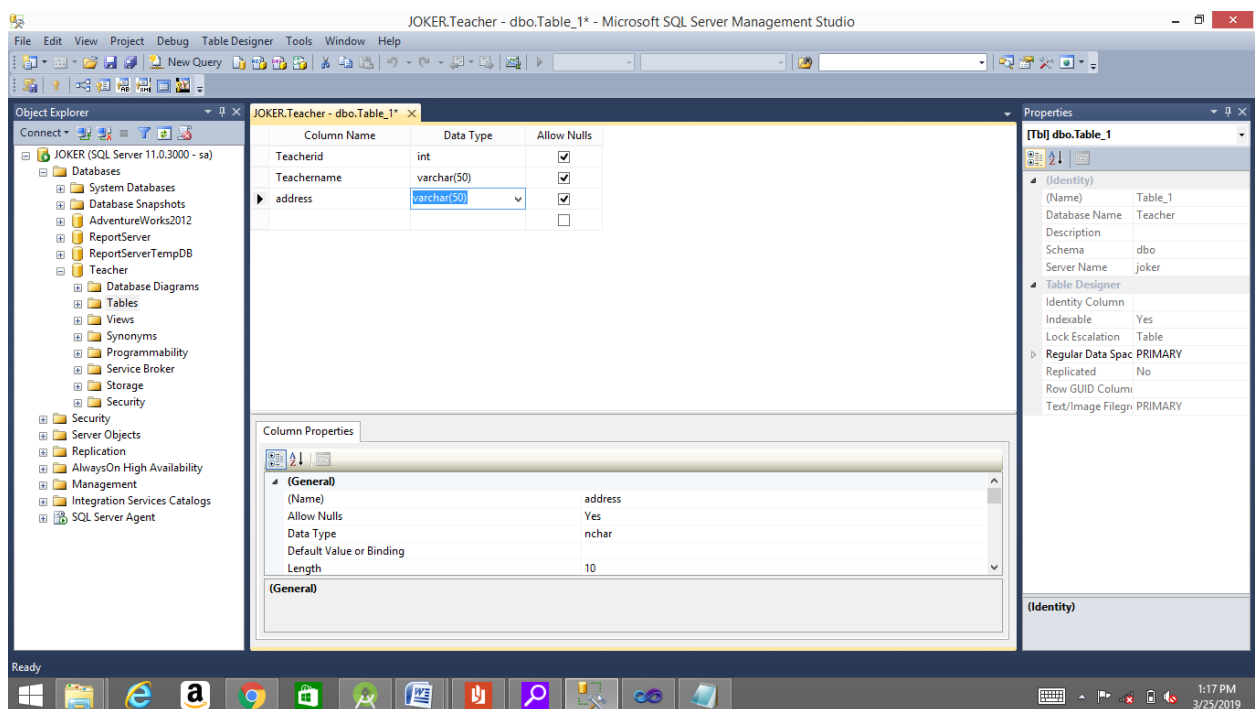
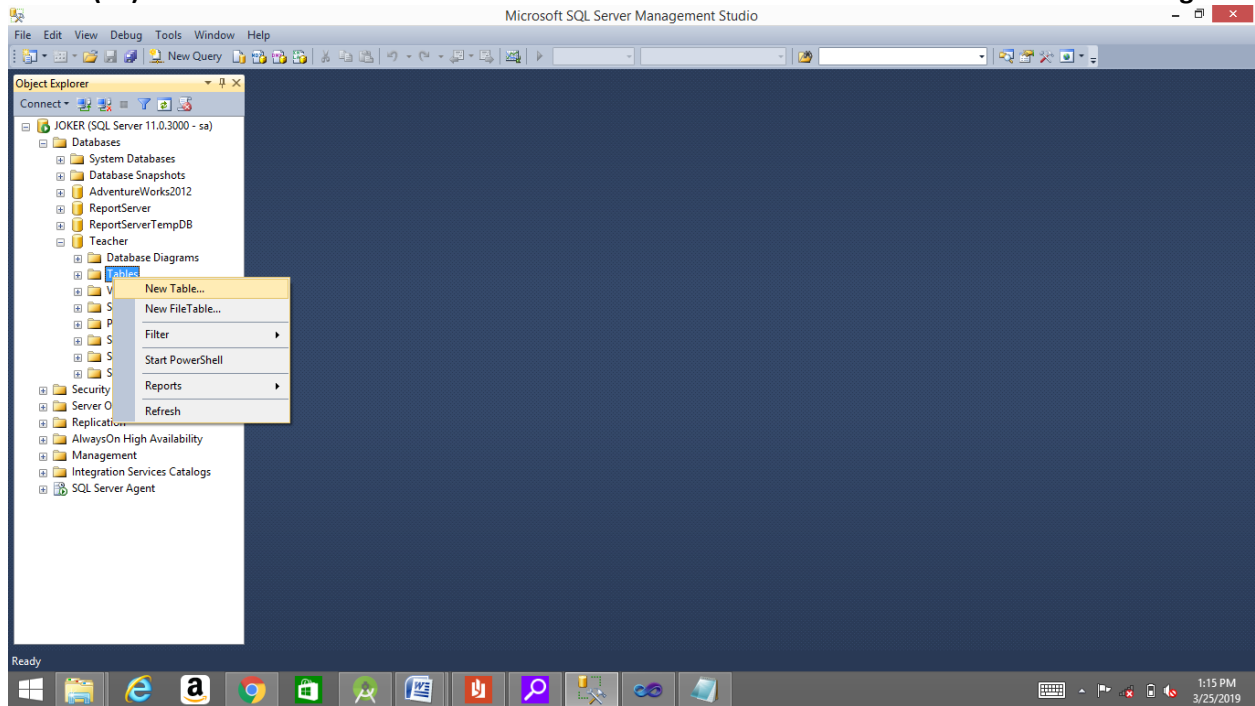


Step2: Now we will define the target in SQL SERVER Management Studio as follows.

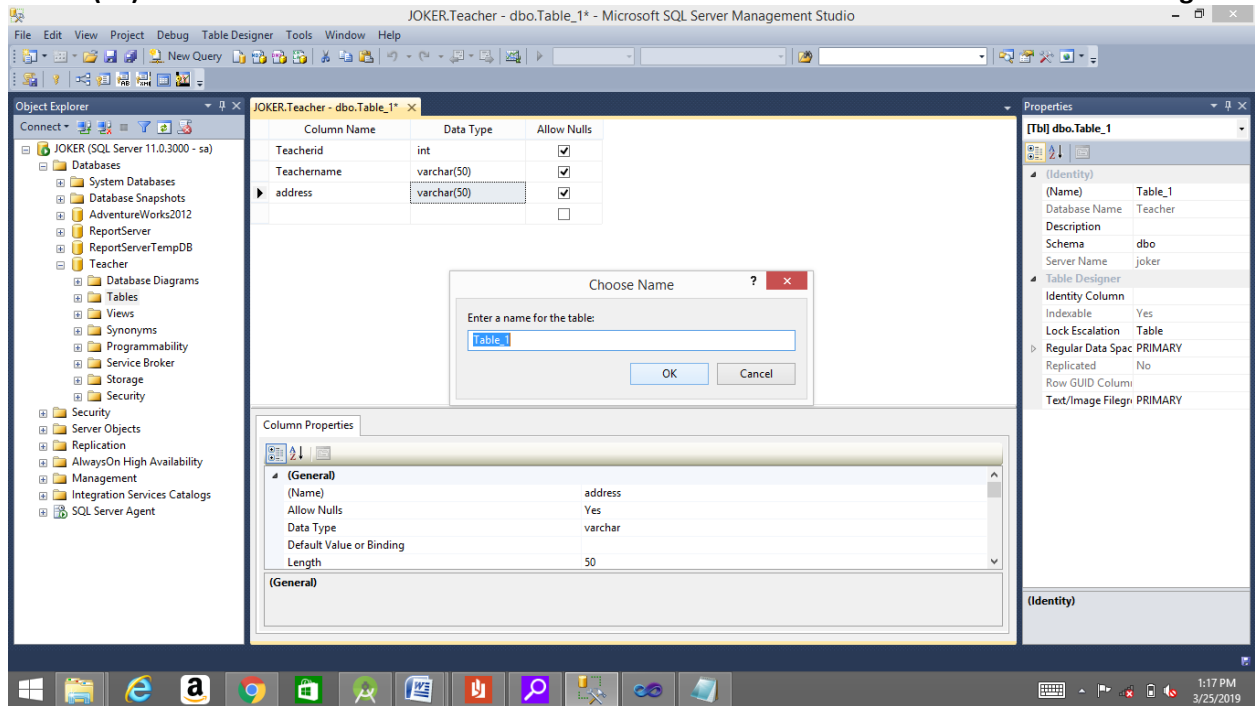
Note: Create same number of columns that we define in teachers.csv

Now Open SQL Server Management Studio and Create Database and Table.

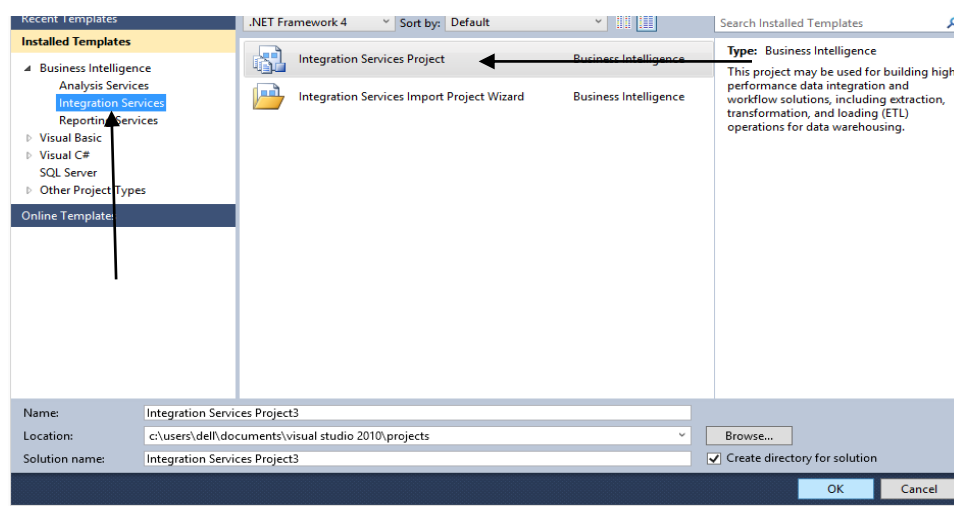
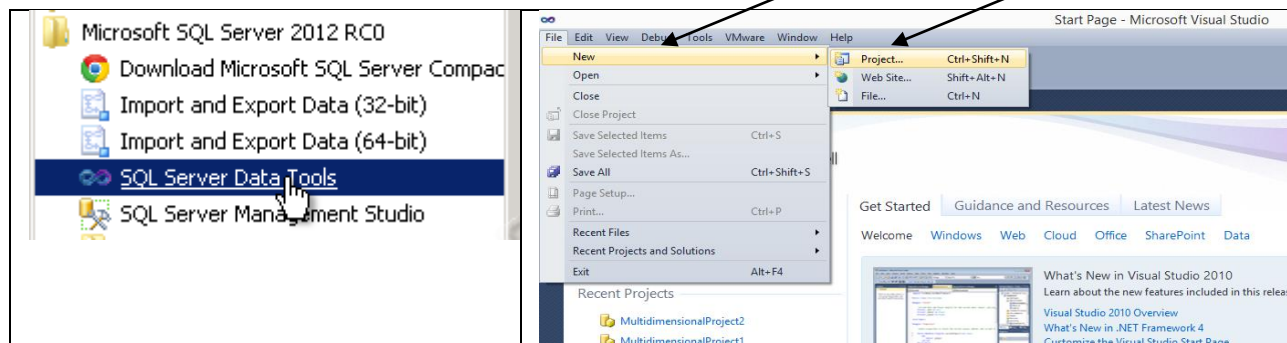


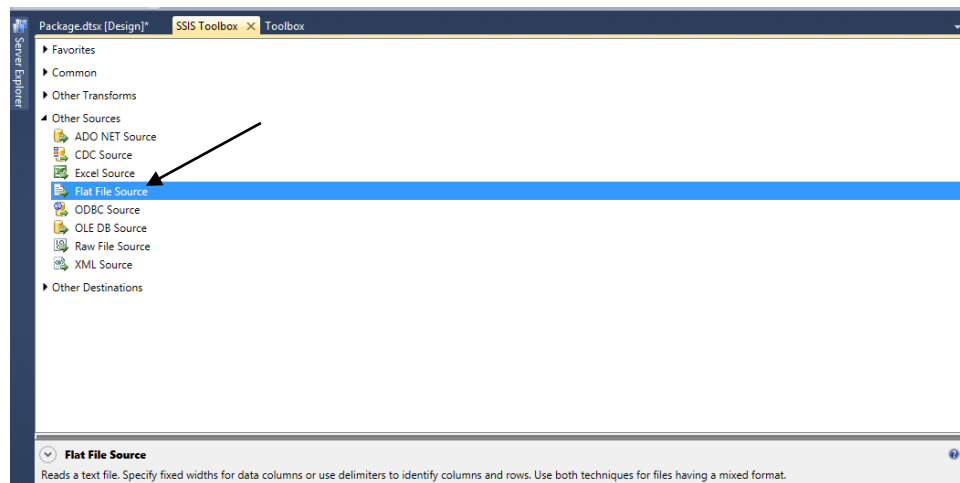
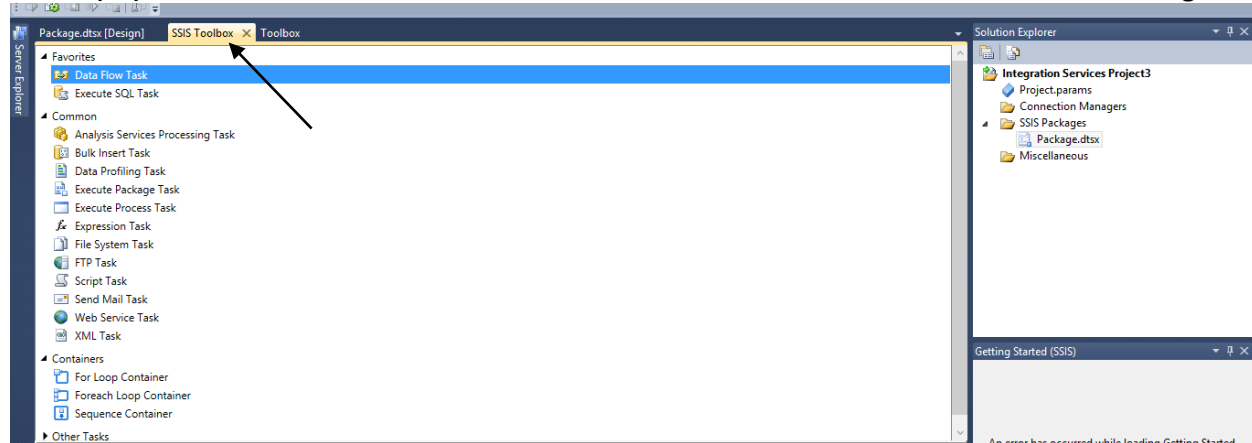


Press Control + S and Save the table with name Table_1

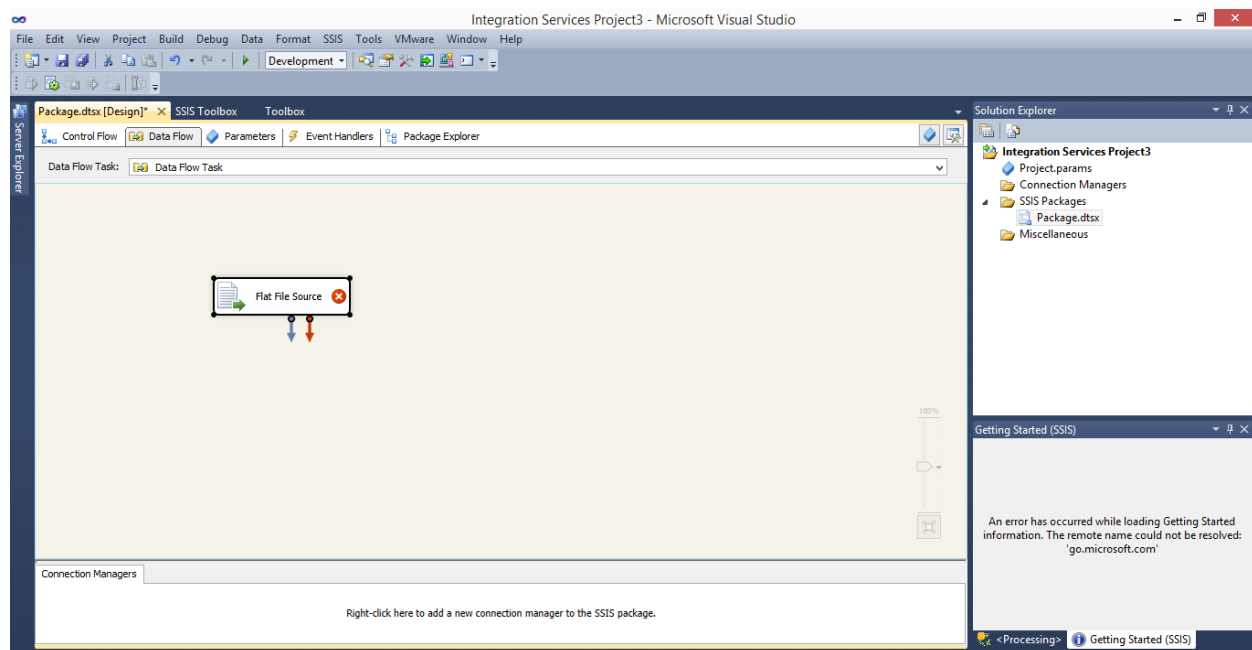


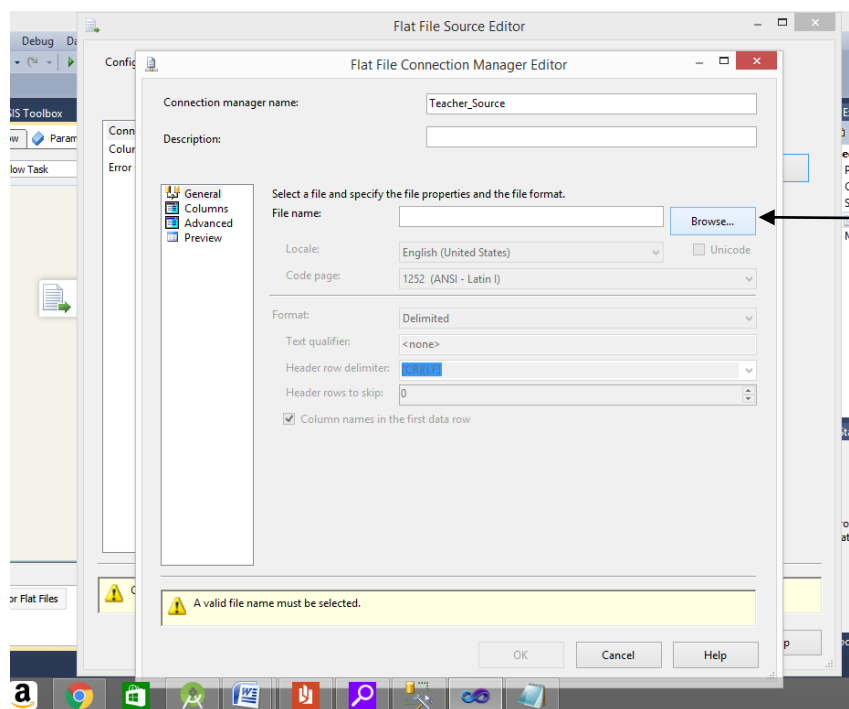
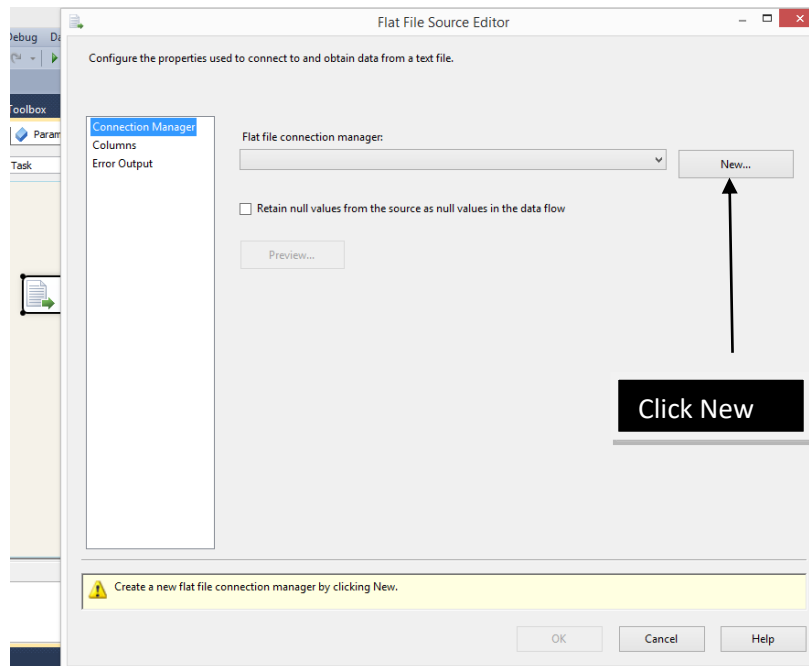
Step3: Now we will perform the ETL, So open SQL Server Data Tools(SSDT)

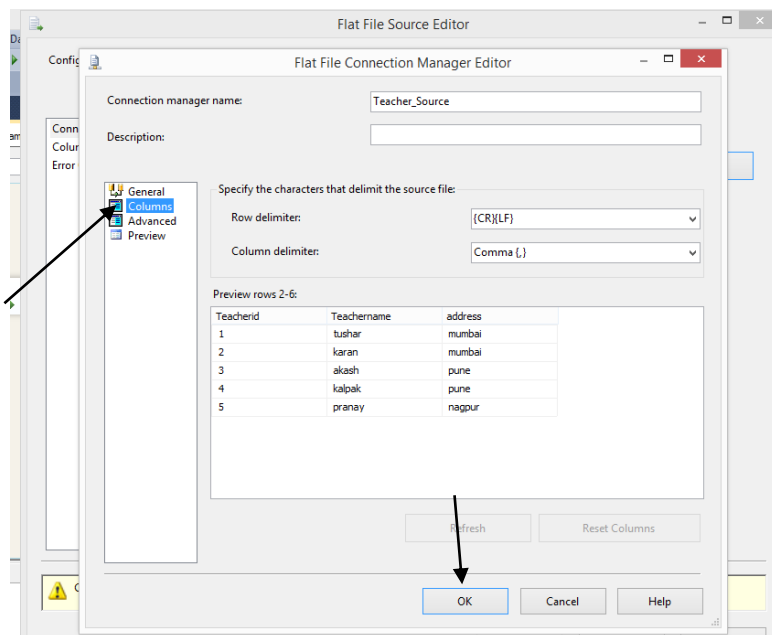
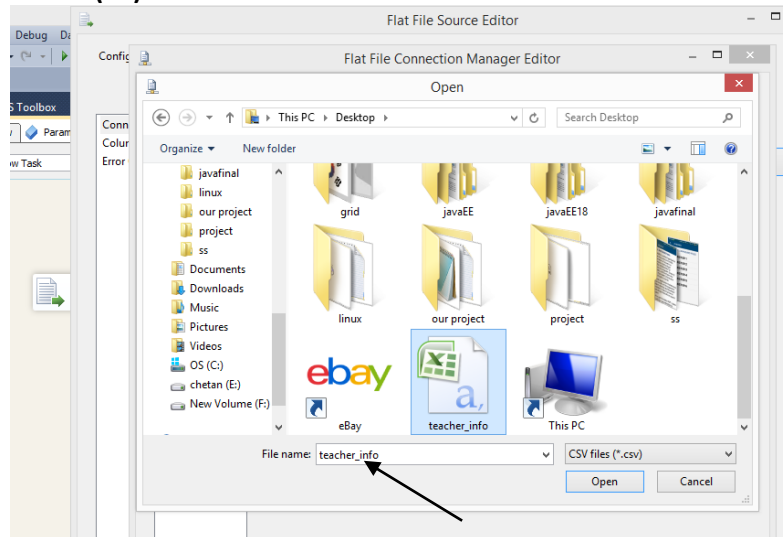


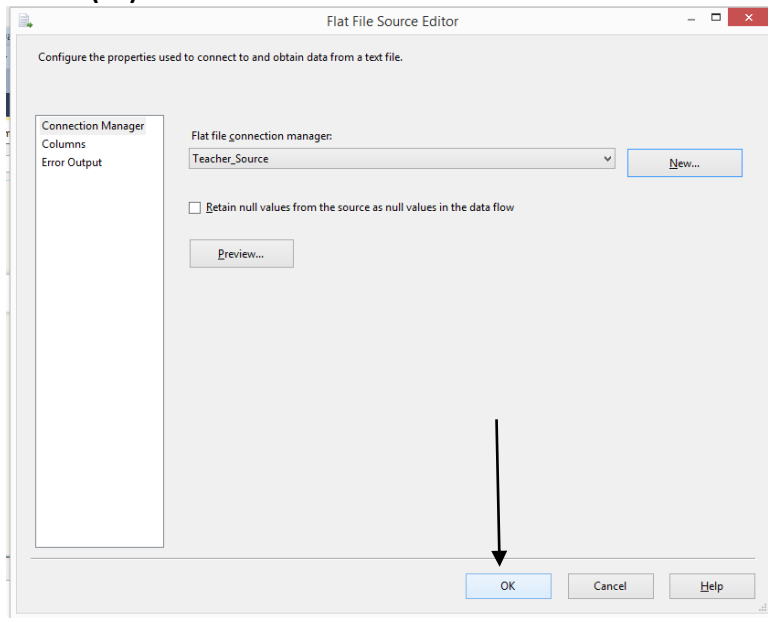


Drag and drop the Flat File Source from SSDT Tool Box.



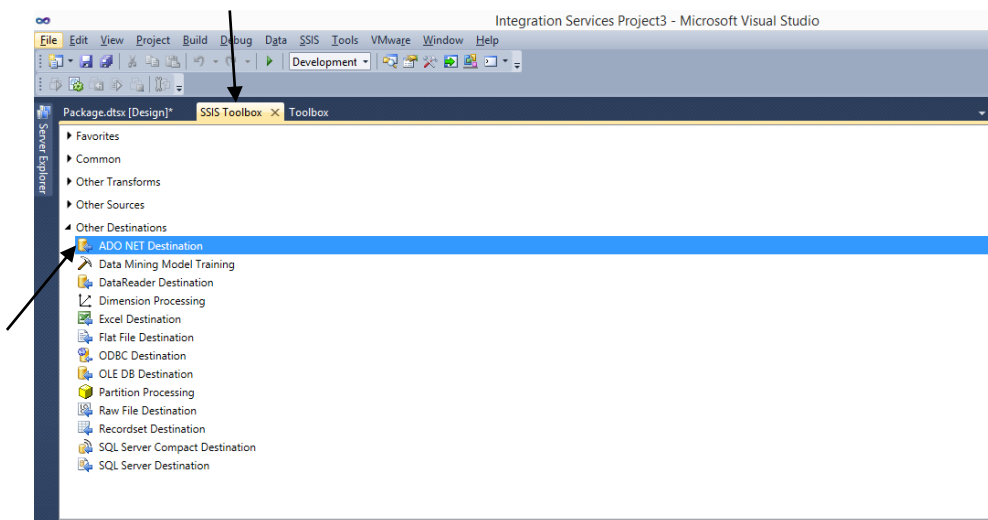
Double Click on Flat File Source

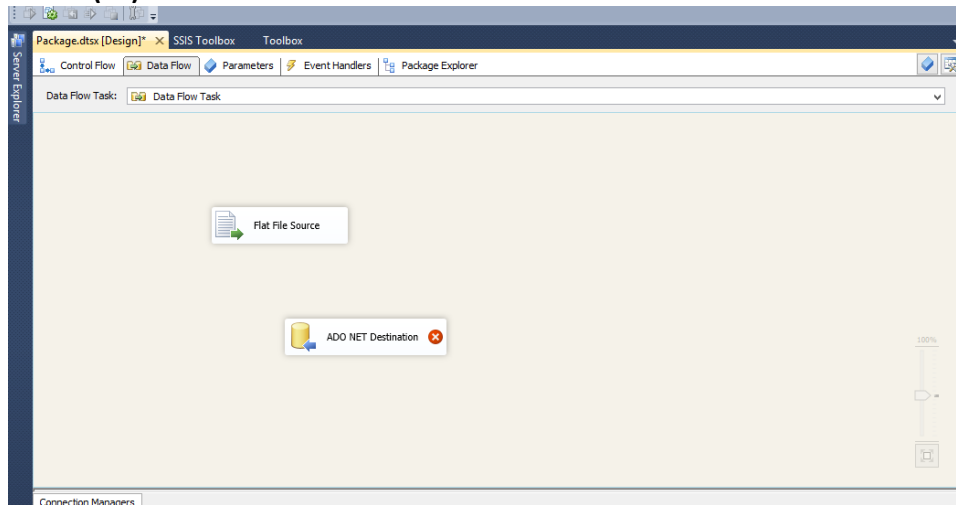




We will be done with ETL Source.

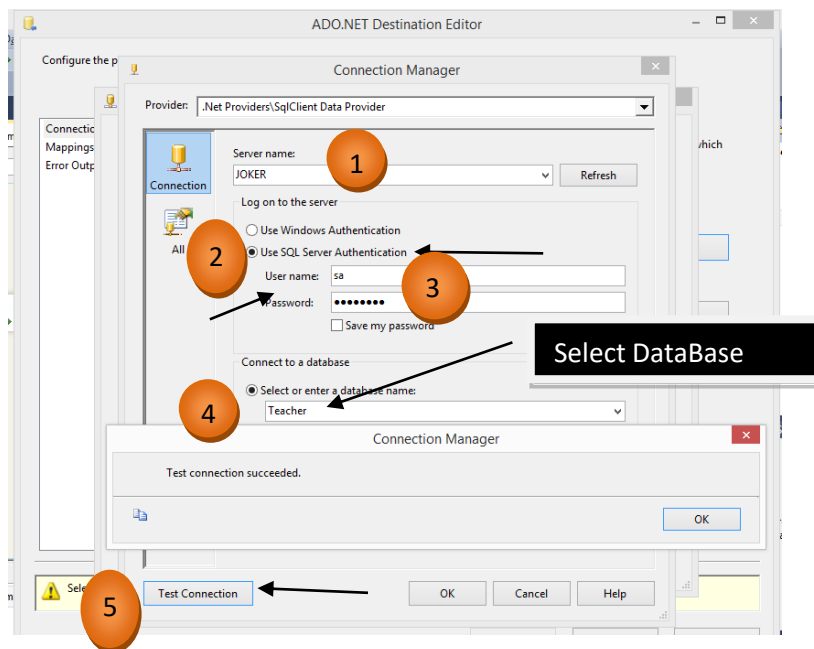
Now we will define the ETL target, select ADO.NET Destination from SSDT toolbox.



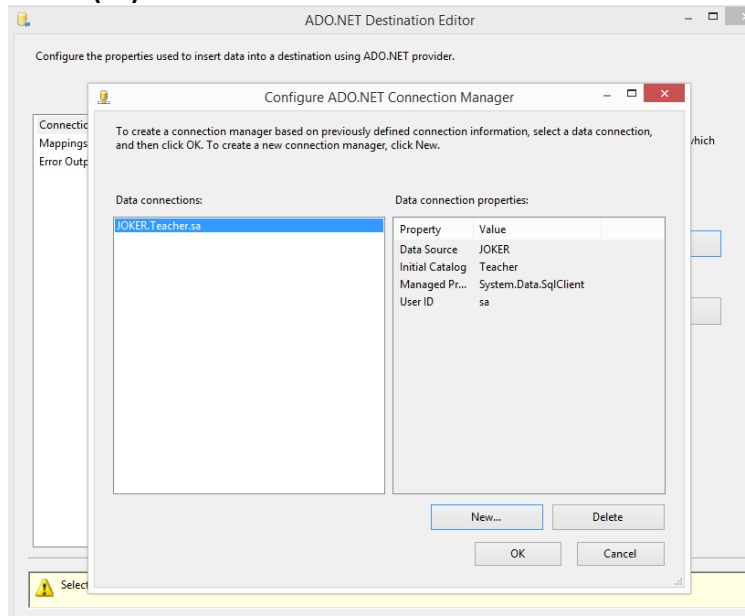


Double Click on ADO.NET Destination control

Enter The SQL Server instance name = JOKER in this case

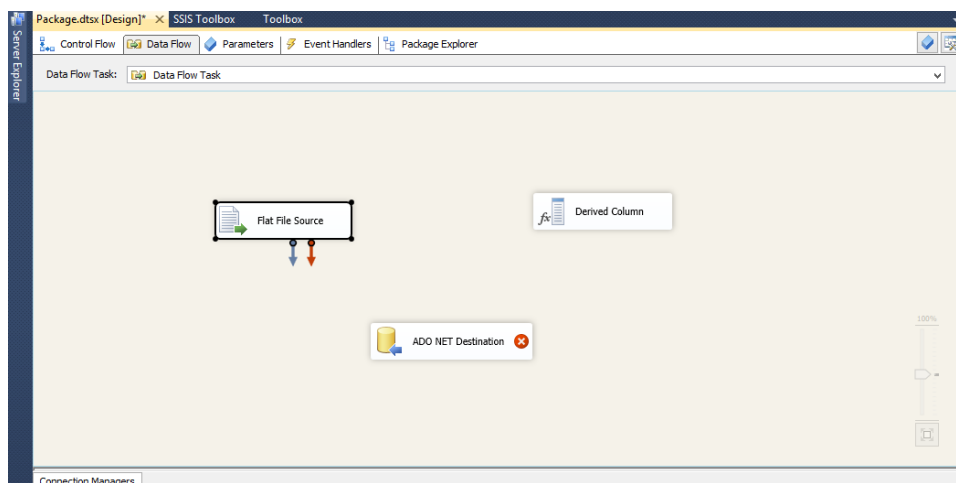
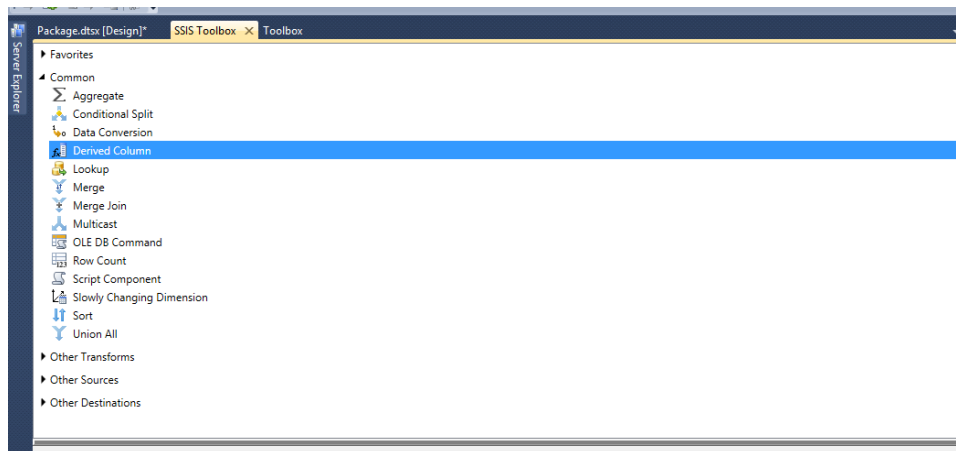


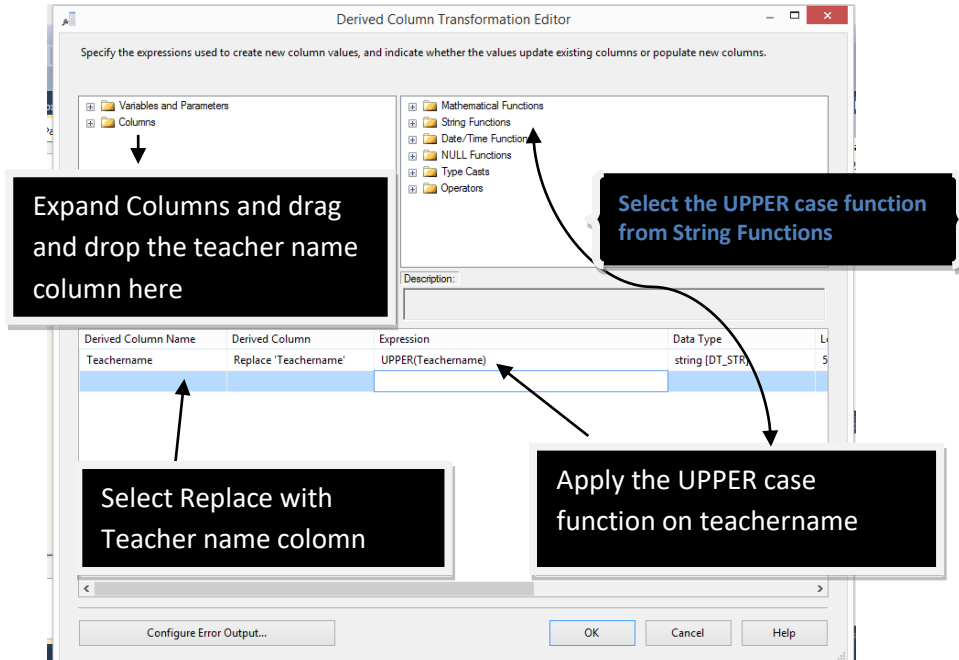
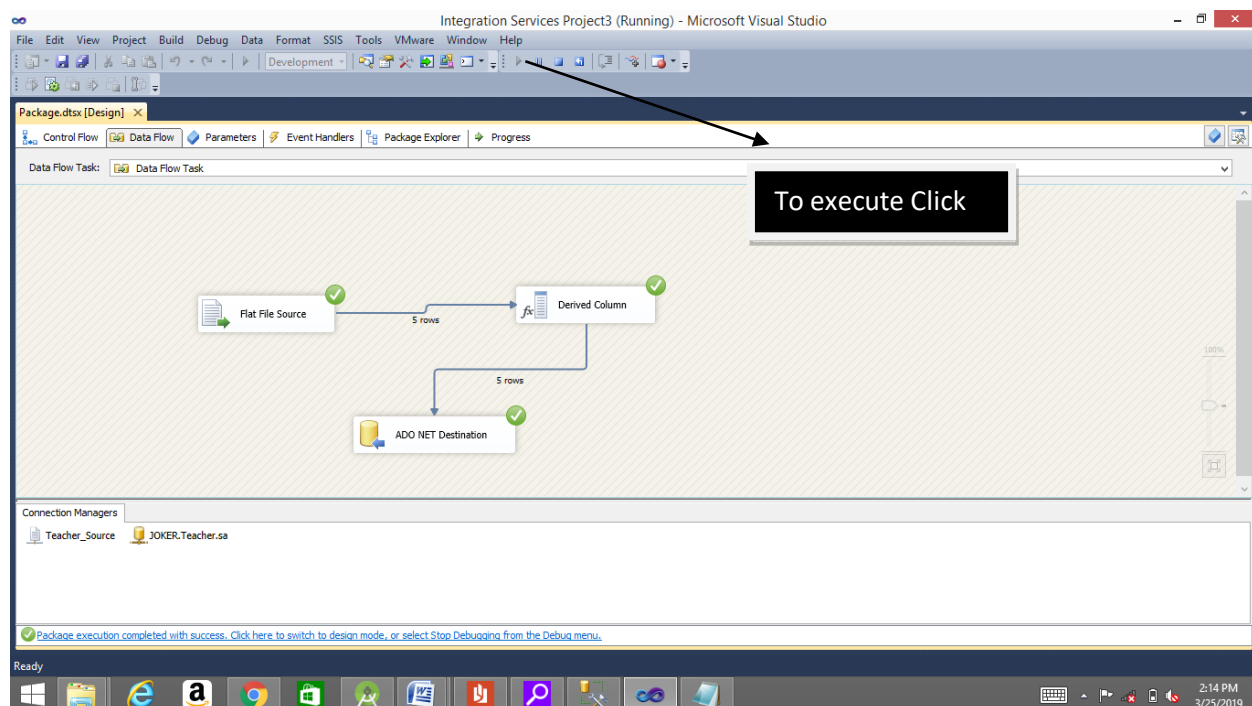
Click Ok



Click Ok

Step 3: Now we will define Transformation, for this drag and drop Derived Column from SSDT Toolbox



Double Click on Derived Column Control.**Connect the Blue arrows from left to right and execute the project.**

To see the output goto SQL Server Management Studio and Check the Table_1

The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is 'JOKER (SQL Server 11.0.3000 - sa)'. The 'Object Explorer' on the left shows the database structure, including 'Teacher.dbo.Table_1'. The 'Query Editor' in the center contains the SQL query: `select * from Teacher.dbo.Table_1`. The 'Results' pane at the bottom shows the output of the query, which is a table with 5 rows and 3 columns: 'Teachend', 'Teachename', and 'address'. The status bar at the bottom indicates 'Query executed successfully.' and 'JOKER (11.0 SP1) | sa (60) | Teacher | 00:00:00 | 5 rows'.

Teachend	Teachename	address
1	TUSHAR	mumbai
2	KARAN	mumbai
3	AKASH	pune
4	KALPAK	pune
5	PRANAY	nagpur