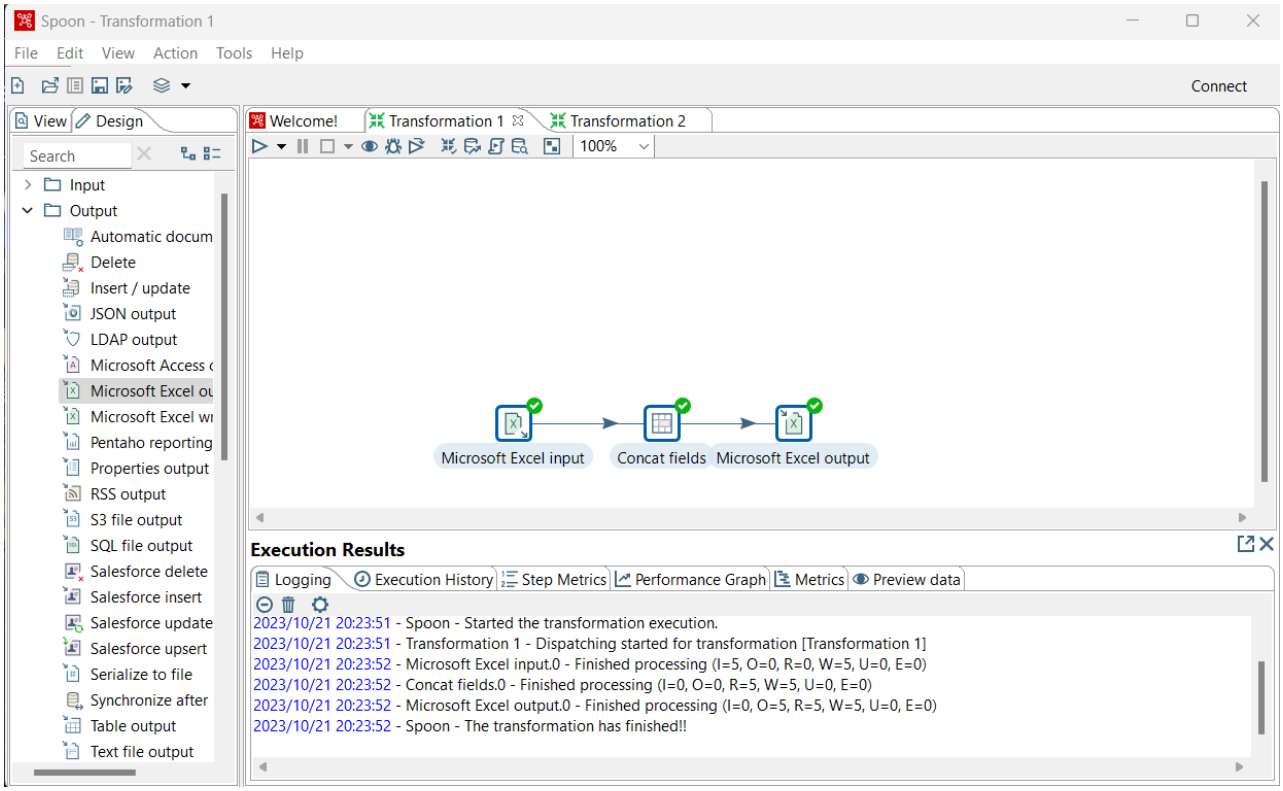
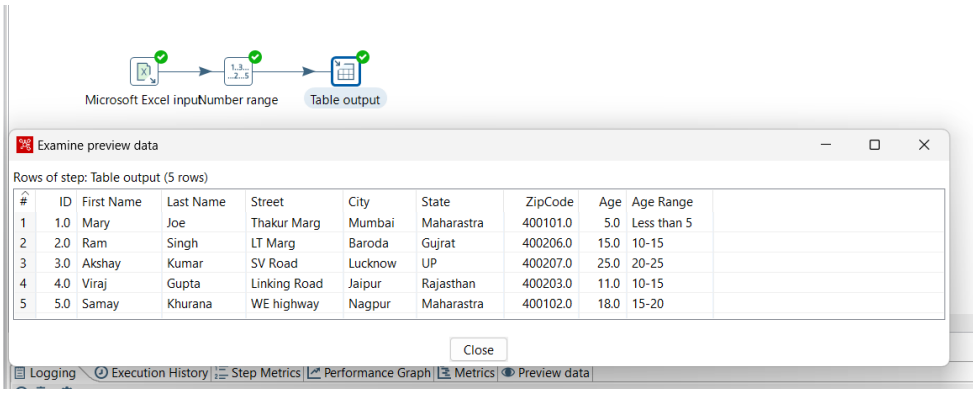
Name: Shaikh Inamul Hasan
Roll No: 100

Assignment on input/output:

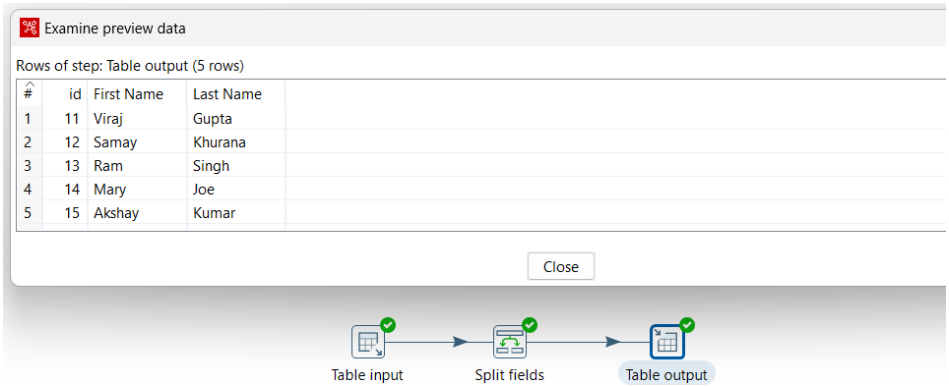
1. Retrieving and load Data from a dbms file (MS Access) to datawarehouse



2. Retrieving and load Data from a Flat File (Excel) to datawarehouse

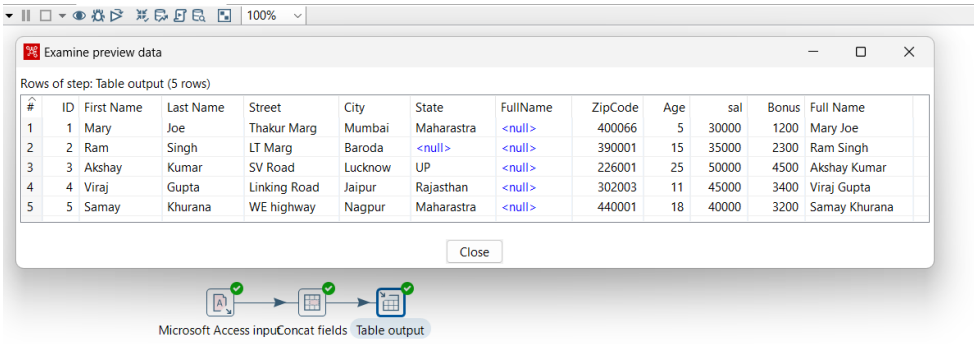


3. Retrieving and load Data from a RDBMS (MS SQL Server / ORACLE) to data warehouse (If you have oracle installed at home)



Assignment on transformation:

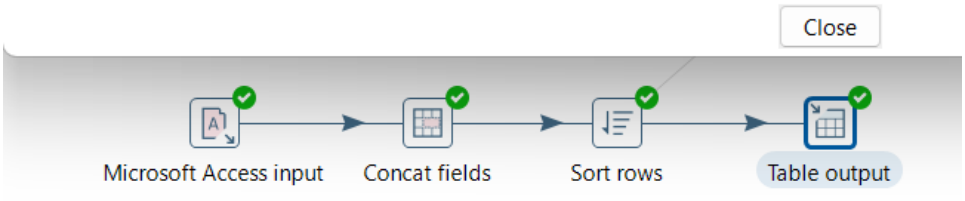
1. **Retrieve data from file staff.accdb and concat two columns firstname and lastname as fullname of teacher table and load data todata warehouse**



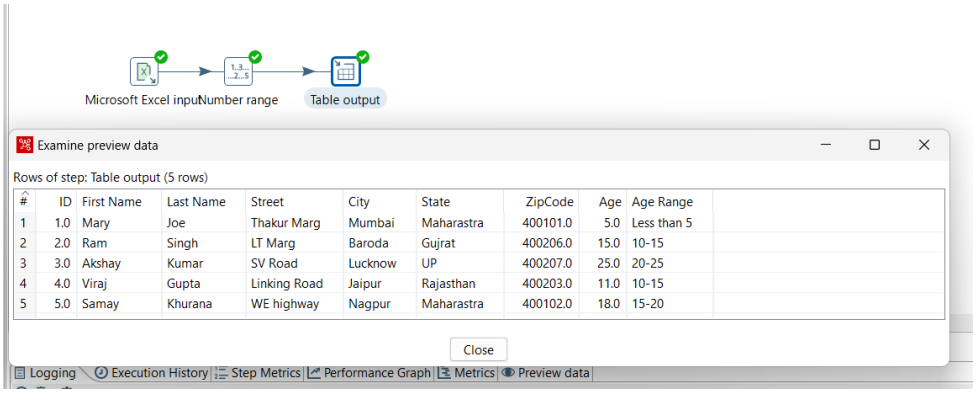
2. **Sort column fullname in descending order and load data to datawarehouse.**

Rows of step: Table output (5 rows)

#	ID	First Name	Last Name	fullname
1	4	Viraj	Gupta	Viraj Gupta
2	5	Samay	Khurana	Samay Khurana
3	2	Ram	Singh	Ram Singh
4	1	Mary	Joe	Mary Joe
5	3	Akshay	Kumar	Akshay Kumar

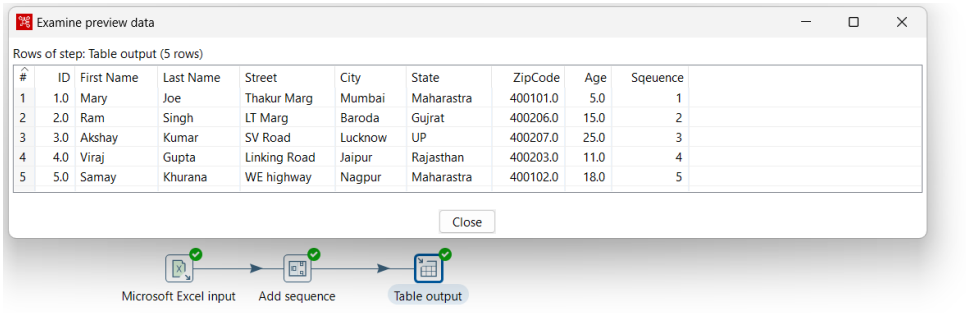


3. **Retrieve data from file and descritize age column of class tablewith > 5, 5-10, 10-15, 15-20, 20-25, >25 and load data to data warehouse**



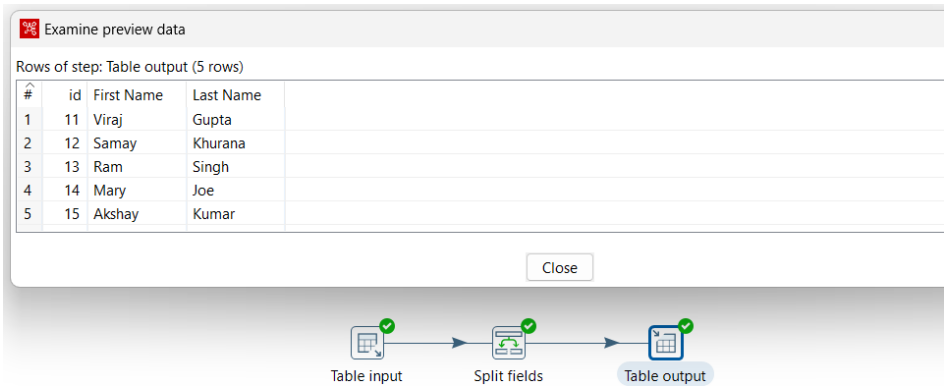
#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Age Range
1	1.0	Mary	Joe	Thakur Marg	Mumbai	Maharastra	400101.0	5.0	Less than 5
2	2.0	Ram	Singh	LT Marg	Baroda	Gujrat	400206.0	15.0	10-15
3	3.0	Akshay	Kumar	SV Road	Lucknow	UP	400207.0	25.0	20-25
4	4.0	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	400203.0	11.0	10-15
5	5.0	Samay	Khurana	WE highway	Nagpur	Maharastra	400102.0	18.0	15-20

4. **Retrieve data from file and add sequence in the staff table.**



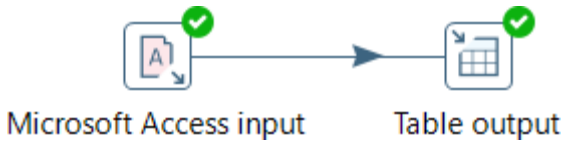
#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sqeuence
1	1.0	Mary	Joe	Thakur Marg	Mumbai	Maharastra	400101.0	5.0	1
2	2.0	Ram	Singh	LT Marg	Baroda	Gujrat	400206.0	15.0	2
3	3.0	Akshay	Kumar	SV Road	Lucknow	UP	400207.0	25.0	3
4	4.0	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	400203.0	11.0	4
5	5.0	Samay	Khurana	WE highway	Nagpur	Maharastra	400102.0	18.0	5

5. **Split fullname column into two columns Fname and Lname usingstaff table**



#	id	First Name	Last Name
1	11	Viraj	Gupta
2	12	Samay	Khurana
3	13	Ram	Singh
4	14	Mary	Joe
5	15	Akshay	Kumar

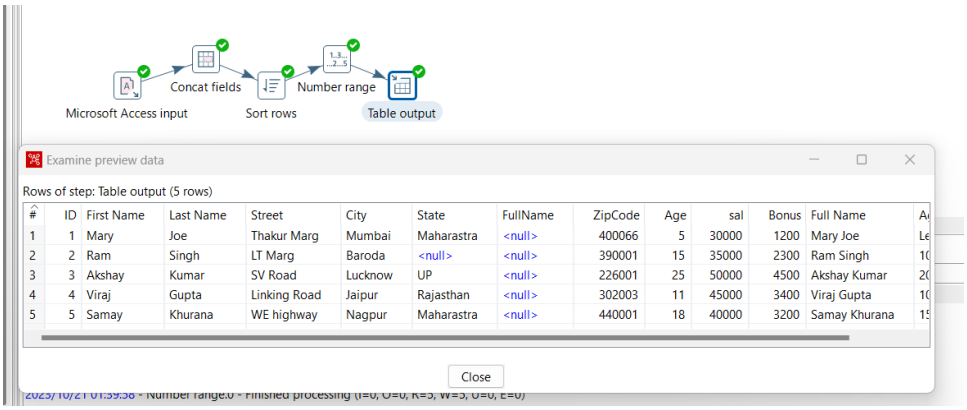
6. Retrieve data from file staff.accdb and set value of zip column of staff table in staffid column



ID	First Name	Last Name	Street	City	State	ZipCode	Age	Age Range
400066	Mary	Joe	Thakur Marg	Mumbai	Maharastra	NULL	5	NULL
390001	Ram	Singh	LT Marg	Baroda	NULL	NULL	15	NULL
226001	Akshay	Kumar	SV Road	Lucknow	UP	NULL	25	NULL
302003	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	NULL	11	NULL
440001	Samay	Khurana	WE highway	Nagpur	Maharastra	NULL	18	NULL

5 rows in set (0.00 sec)

7. Load data transformed in step 1-3 in another MS – Accessdatabase.



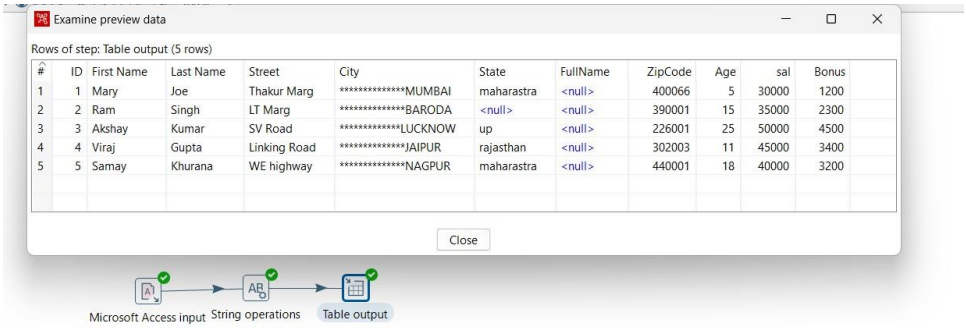
#	ID	First Name	Last Name	Street	City	State	FullName	ZipCode	Age	sal	Bonus	Full Name
1	1	Mary	Joe	Thakur Marg	Mumbai	Maharastra	<null>	400066	5	30000	1200	Mary Joe
2	2	Ram	Singh	LT Marg	Baroda	<null>	<null>	390001	15	35000	2300	Ram Singh
3	3	Akshay	Kumar	SV Road	Lucknow	UP	<null>	226001	25	50000	4500	Akshay Kumar
4	4	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	<null>	302003	11	45000	3400	Viraj Gupta
5	5	Samay	Khurana	WE highway	Nagpur	Maharastra	<null>	440001	18	40000	3200	Samay Khurana

8. Retrieve data from file staff.accdb and apply following stringoperation

a. Convert city column in upper case

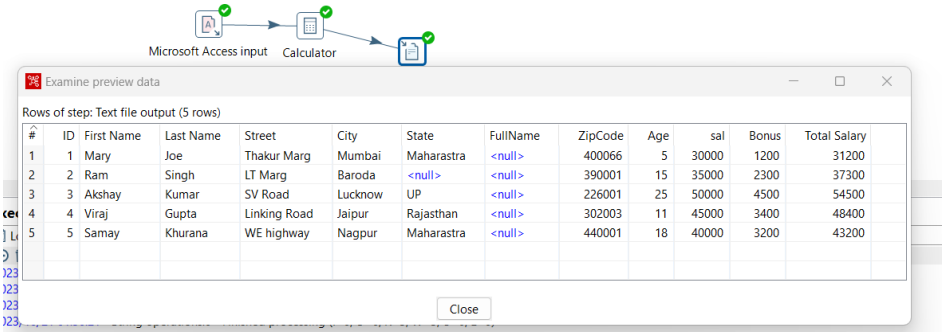
b. Convert state column in lower case

c. Apply left padding in city and fix width 20 and padding charactershould be “*”



#	ID	First Name	Last Name	Street	City	State	FullName	ZipCode	Age	sal	Bonus
1	1	Mary	Joe	Thakur Marg	**********MUMBAI	maharastra	<null>	400066	5	30000	1200
2	2	Ram	Singh	LT Marg	**********BARODA	<null>	<null>	390001	15	35000	2300
3	3	Akshay	Kumar	SV Road	**********LUCKNOW	up	<null>	226001	25	50000	4500
4	4	Viraj	Gupta	Linking Road	**********JAIPUR	rajasthan	<null>	302003	11	45000	3400
5	5	Samay	Khurana	WE highway	**********NAGPUR	maharastra	<null>	440001	18	40000	3200

9. Retrieve data from file staff.accdb and calculate total salary usingwhich is sum of salary and bonus column



#	ID	First Name	Last Name	Street	City	State	FullName	ZipCode	Age	sal	Bonus	Total Salary
1	1	Mary	Joe	Thakur Marg	Mumbai	Maharastra	<null>	400066	5	30000	1200	31200
2	2	Ram	Singh	LT Marg	Baroda	<null>	<null>	390001	15	35000	2300	37300
3	3	Akshay	Kumar	SV Road	Lucknow	UP	<null>	226001	25	50000	4500	54500
4	4	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	<null>	302003	11	45000	3400	48400
5	5	Samay	Khurana	WE highway	Nagpur	Maharastra	<null>	440001	18	40000	3200	43200