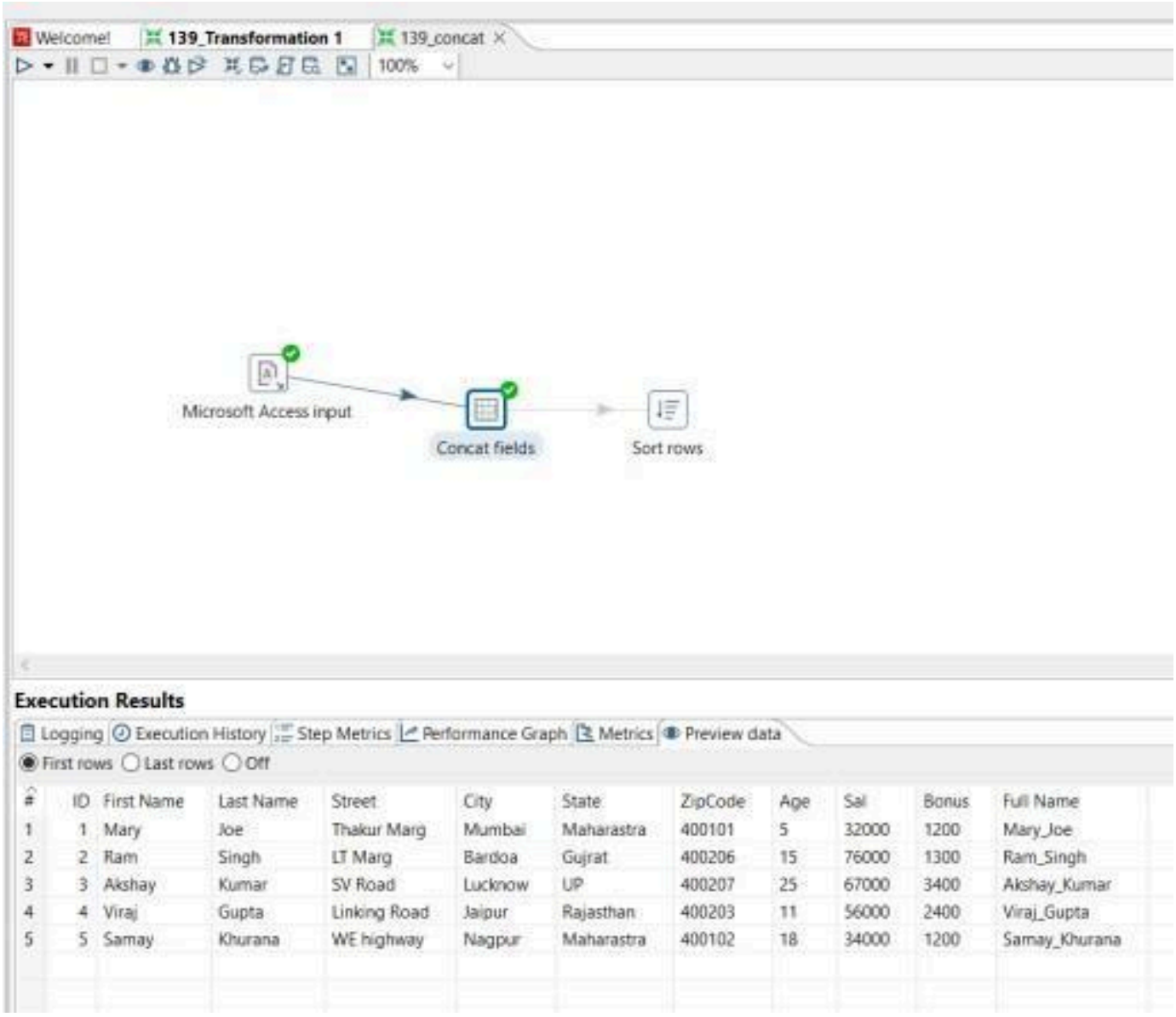
Name:- Akhilesh Singh

Roll No.186 / Batch : C

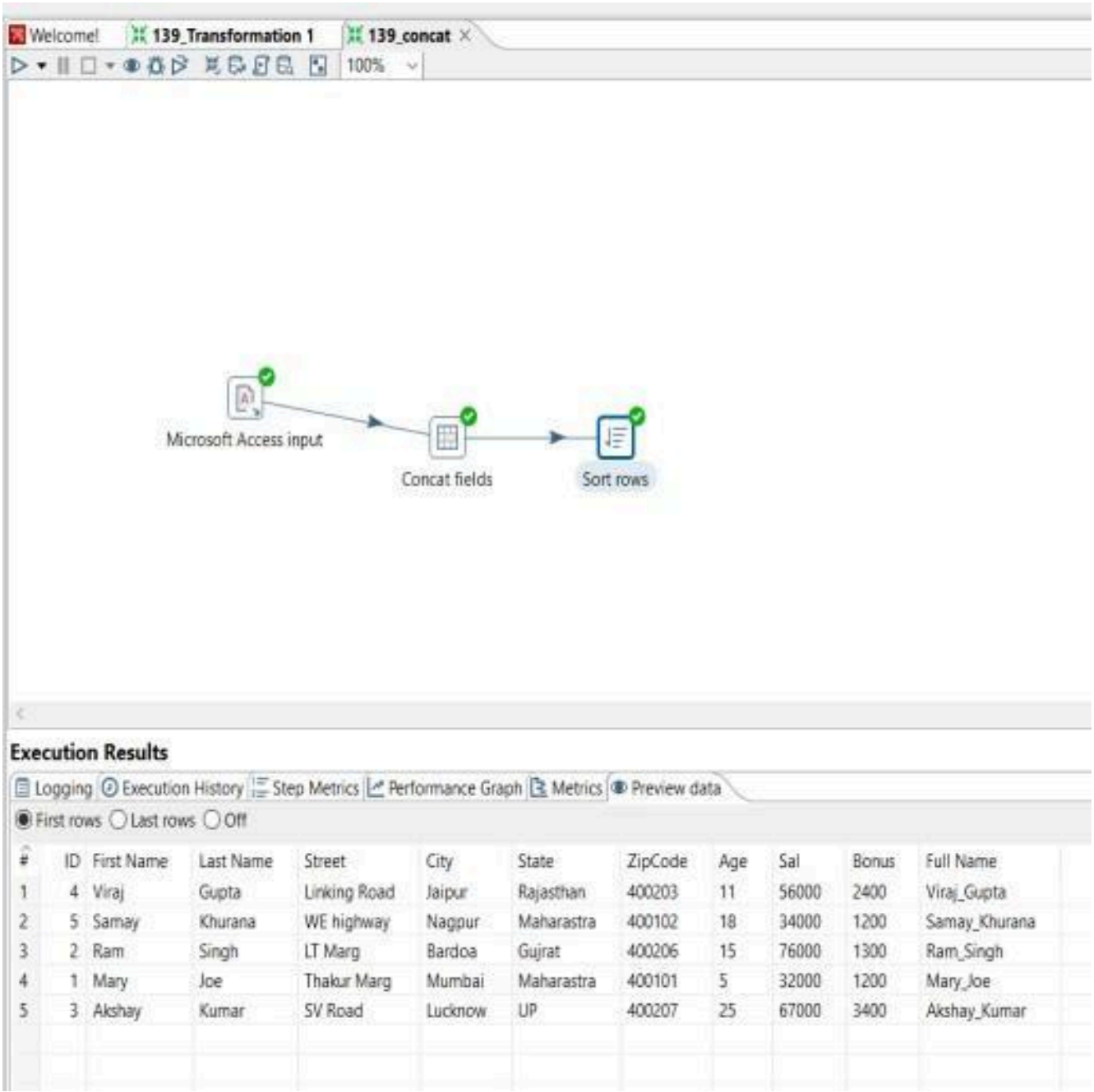
Lab. Assignment 3 Pentaho

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



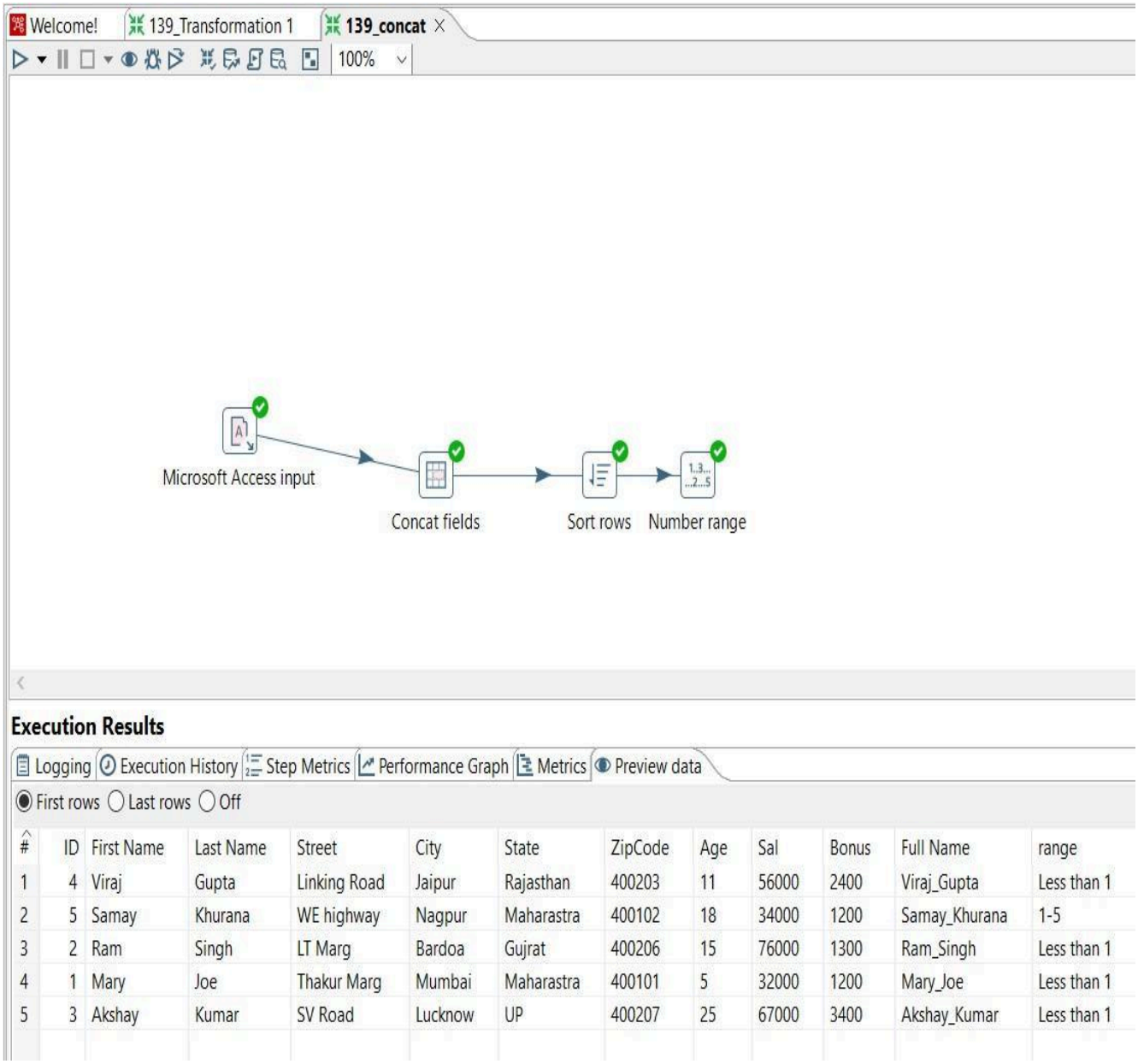
#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name
1	1	Mary	Joe	Thakur Marg	Mumbai	Maharastra	400101	5	32000	1200	Mary_Joe
2	2	Ram	Singh	LT Marg	Bardoa	Gujrat	400206	15	76000	1300	Ram_Singh
3	3	Akshay	Kumar	SV Road	Lucknow	UP	400207	25	67000	3400	Akshay_Kumar
4	4	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	400203	11	56000	2400	Viraj_Gupta
5	5	Samay	Khurana	WE highway	Nagpur	Maharastra	400102	18	34000	1200	Samay_Khurana

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



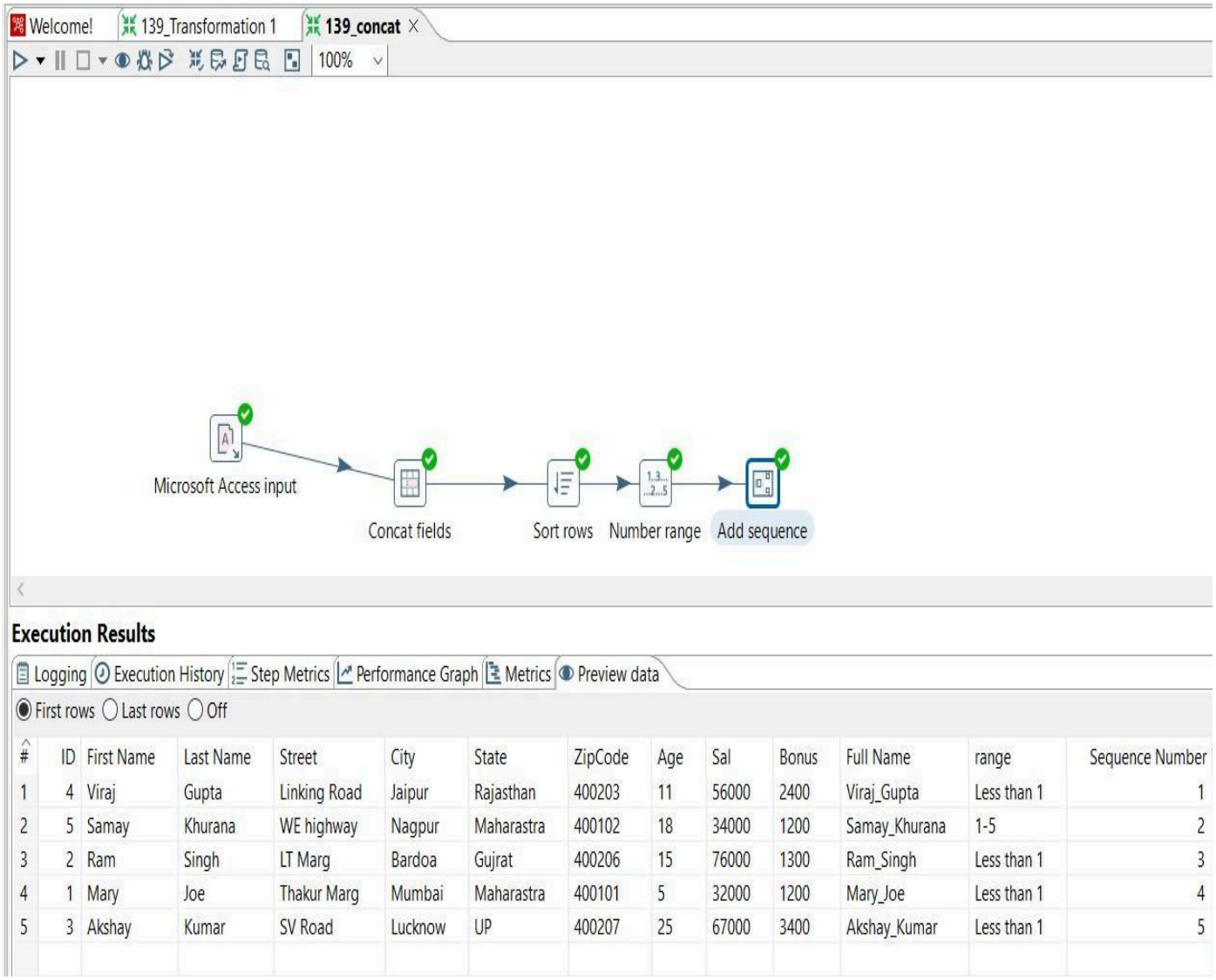
#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name
1	4	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	400203	11	56000	2400	Viraj_Gupta
2	5	Samay	Khurana	WE highway	Nagpur	Maharastra	400102	18	34000	1200	Samay_Khurana
3	2	Ram	Singh	LT Marg	Bardoa	Gujrat	400206	15	76000	1300	Ram_Singh
4	1	Mary	Joe	Thakur Marg	Mumbai	Maharastra	400101	5	32000	1200	Mary_Joe
5	3	Akshay	Kumar	SV Road	Lucknow	UP	400207	25	67000	3400	Akshay_Kumar

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



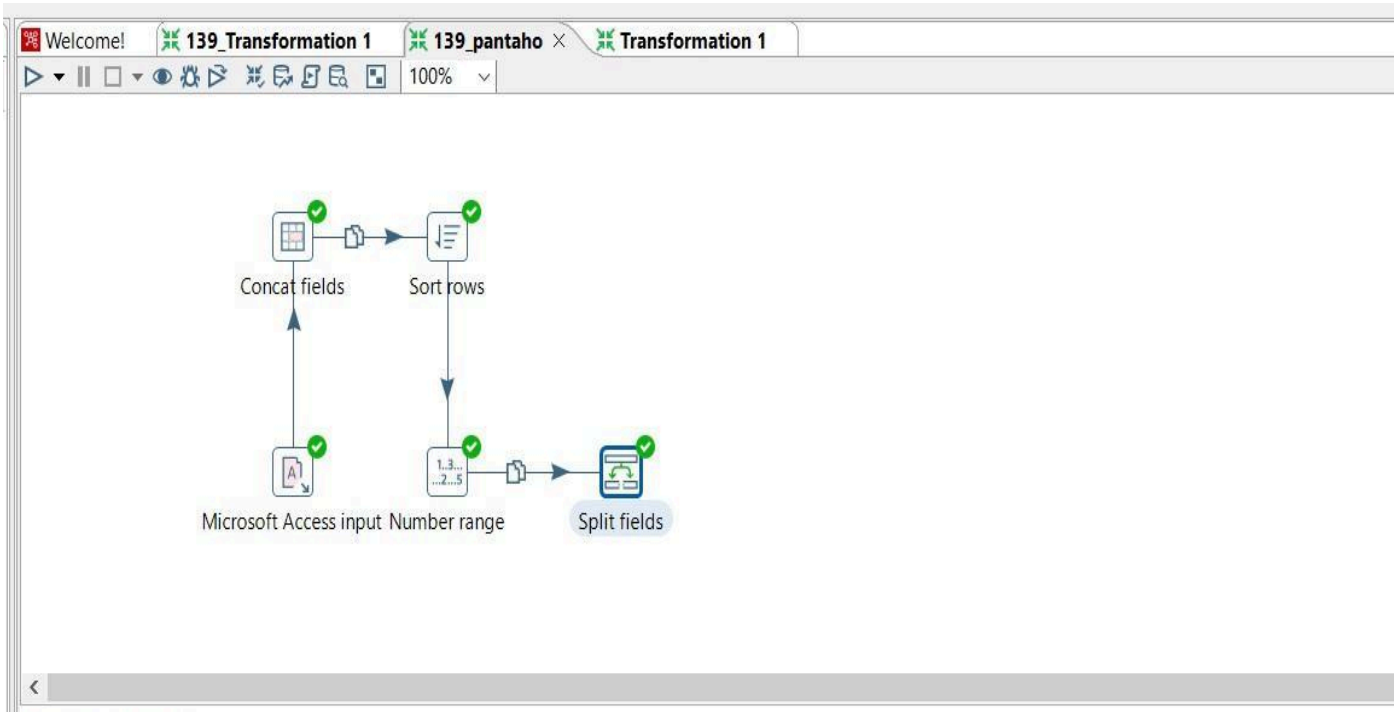
#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name	range
1	4	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	400203	11	56000	2400	Viraj_Gupta	Less than 1
2	5	Samay	Khurana	WE highway	Nagpur	Maharastra	400102	18	34000	1200	Samay_Khurana	1-5
3	2	Ram	Singh	LT Marg	Bardoa	Gujrat	400206	15	76000	1300	Ram_Singh	Less than 1
4	1	Mary	Joe	Thakur Marg	Mumbai	Maharastra	400101	5	32000	1200	Mary_Joe	Less than 1
5	3	Akshay	Kumar	SV Road	Lucknow	UP	400207	25	67000	3400	Akshay_Kumar	Less than 1

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



#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name	range	Sequence Number
1	4	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	400203	11	56000	2400	Viraj_Gupta	Less than 1	1
2	5	Samay	Khurana	WE highway	Nagpur	Maharastra	400102	18	34000	1200	Samay_Khurana	1-5	2
3	2	Ram	Singh	LT Marg	Bardoa	Gujrat	400206	15	76000	1300	Ram_Singh	Less than 1	3
4	1	Mary	Joe	Thakur Marg	Mumbai	Maharastra	400101	5	32000	1200	Mary_Joe	Less than 1	4
5	3	Akshay	Kumar	SV Road	Lucknow	UP	400207	25	67000	3400	Akshay_Kumar	Less than 1	5

5. Split fullname column into two columns Fname and Lname using staff table



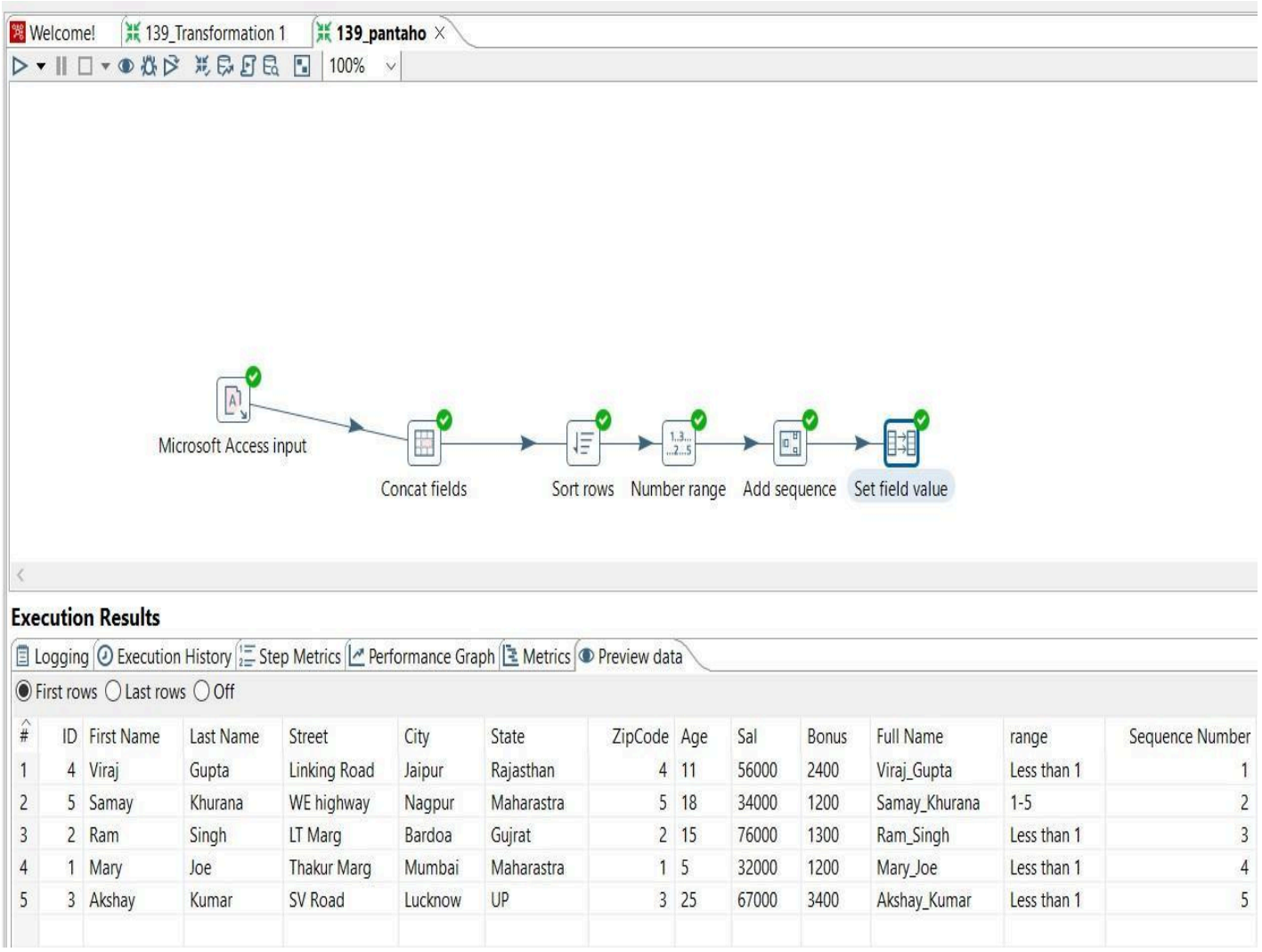
Execution Results

Logging | Execution History | Step Metrics | Performance Graph | Metrics | Preview data

First rows | Last rows | Off

#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Fname	Lname	range
1	4	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	400203	11	56000.0	2400.0	Viraj	Gupta	Less than 1
2	5	Samay	Khurana	WE highway	Nagpur	Maharastra	400102	18	34000.0	1200.0	Samay	Khurana	1-5
3	2	Ram	Singh	LT Marg	Bardoa	Gujrat	400206	15	76000.0	1300.0	Ram	Singh	Less than 1
4	1	Mary	Joe	Thakur Marg	Mumbai	Maharastra	400101	5	32000.0	1200.0	Mary	Joe	Less than 1
5	3	Akshay	Kumar	SV Road	Lucknow	UP	400207	25	67000.0	3400.0	Akshay	Kumar	Less than 1

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



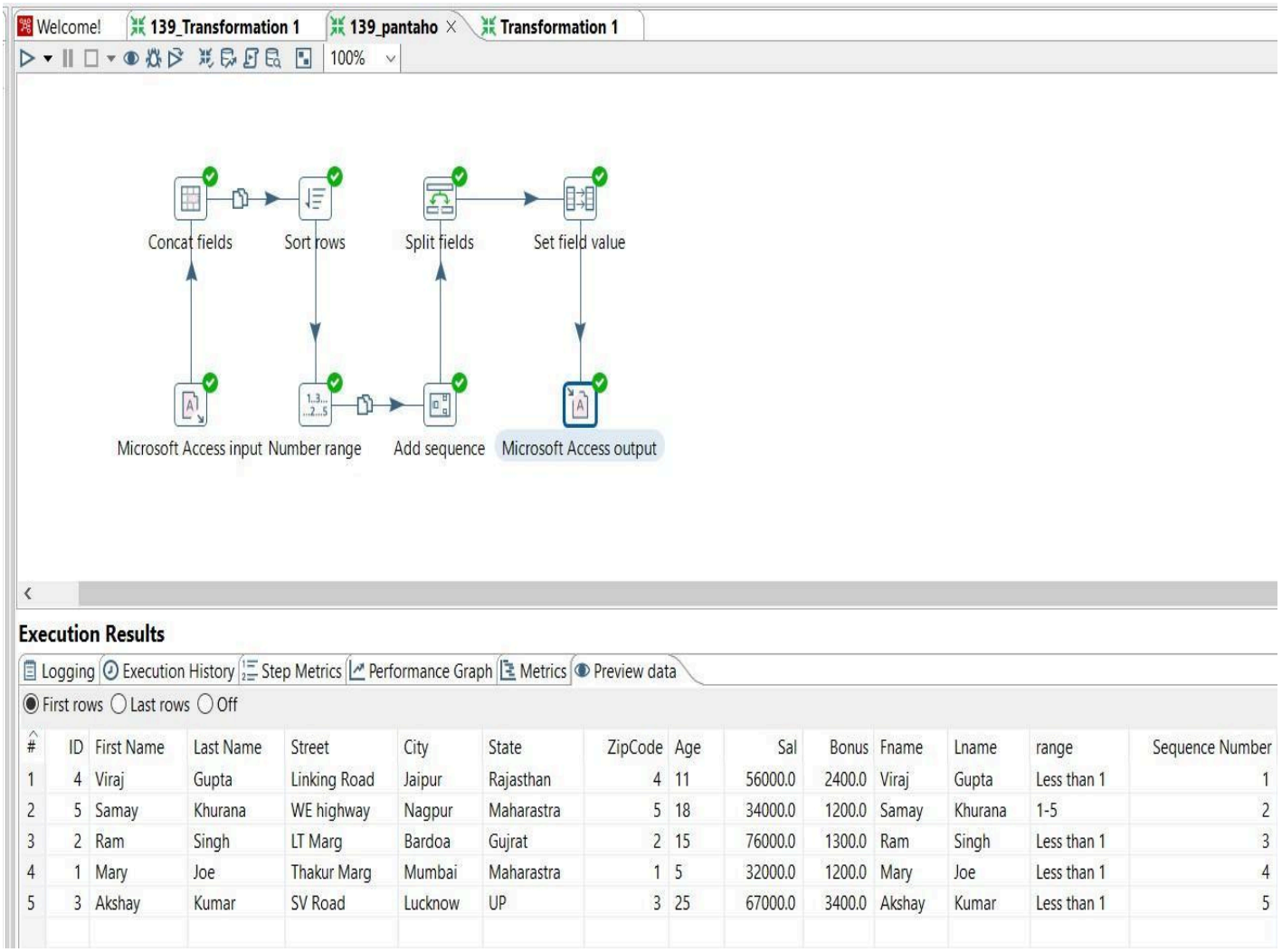
Execution Results

Logging | Execution History | Step Metrics | Performance Graph | Metrics | Preview data

First rows | Last rows | Off

#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name	range	Sequence Number
1	4	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	4	11	56000	2400	Viraj_Gupta	Less than 1	1
2	5	Samay	Khurana	WE highway	Nagpur	Maharastra	5	18	34000	1200	Samay_Khurana	1-5	2
3	2	Ram	Singh	LT Marg	Bardoa	Gujrat	2	15	76000	1300	Ram_Singh	Less than 1	3
4	1	Mary	Joe	Thakur Marg	Mumbai	Maharastra	1	5	32000	1200	Mary_Joe	Less than 1	4
5	3	Akshay	Kumar	SV Road	Lucknow	UP	3	25	67000	3400	Akshay_Kumar	Less than 1	5

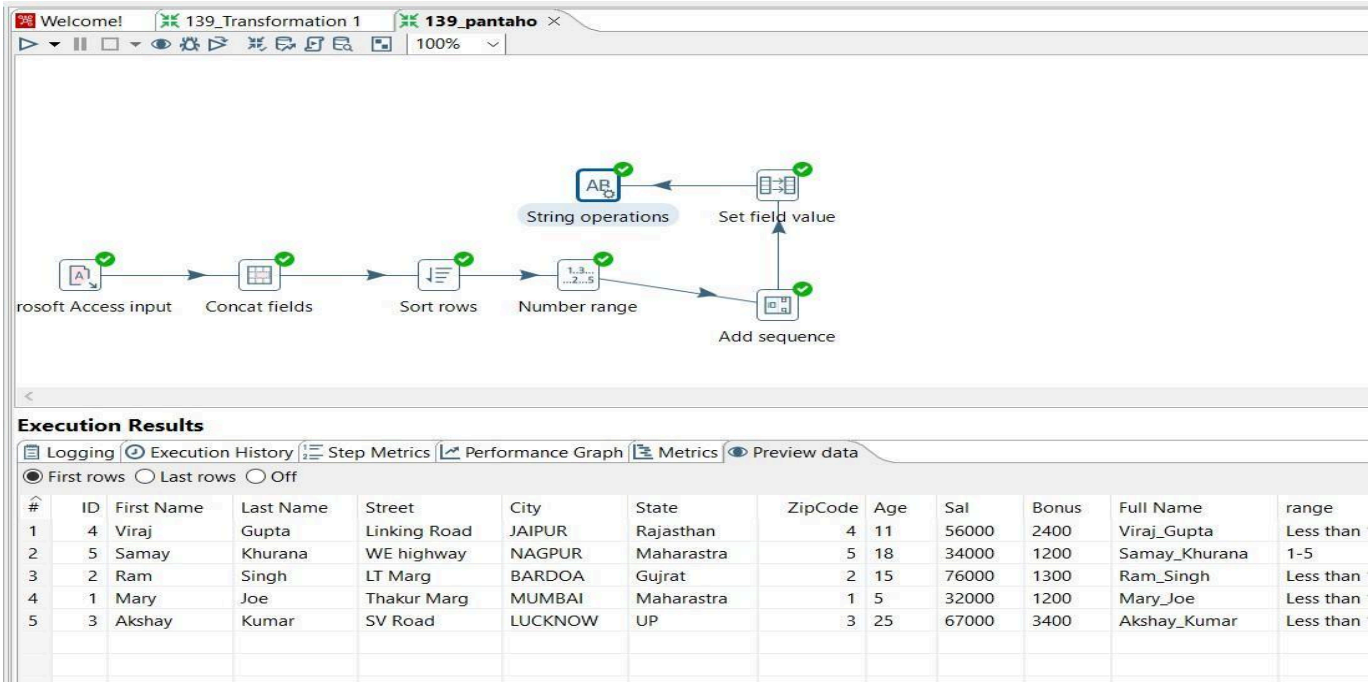
7. Load data transformed in step 1-6 in another MS – Access database.



#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Fname	Lname	range	Sequence Number
1	4	Viraj	Gupta	Linking Road	Jaipur	Rajasthan	4	11	56000.0	2400.0	Viraj	Gupta	Less than 1	1
2	5	Samay	Khurana	WE highway	Nagpur	Maharastra	5	18	34000.0	1200.0	Samay	Khurana	1-5	2
3	2	Ram	Singh	LT Marg	Bardoa	Gujrat	2	15	76000.0	1300.0	Ram	Singh	Less than 1	3
4	1	Mary	Joe	Thakur Marg	Mumbai	Maharastra	1	5	32000.0	1200.0	Mary	Joe	Less than 1	4
5	3	Akshay	Kumar	SV Road	Lucknow	UP	3	25	67000.0	3400.0	Akshay	Kumar	Less than 1	5

8. Retrieve data from file staff.accdb and apply following string operation

a. Convert city column in upper case



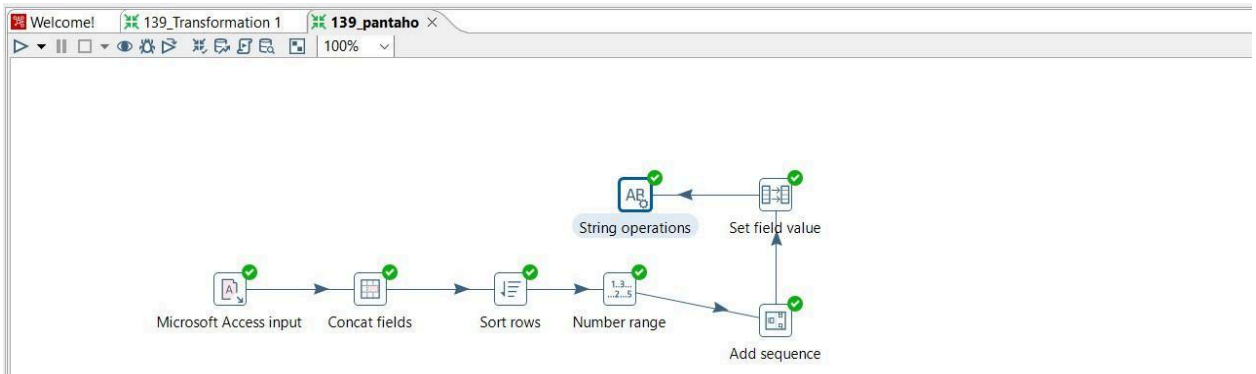
Execution Results

Logging | Execution History | Step Metrics | Performance Graph | Metrics | Preview data

First rows | Last rows | Off

#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name	range
1	4	Viraj	Gupta	Linking Road	JAIPUR	Rajasthan	4	11	56000	2400	Viraj_Gupta	Less than
2	5	Samay	Khurana	WE highway	NAGPUR	Maharastra	5	18	34000	1200	Samay_Khurana	1-5
3	2	Ram	Singh	LT Marg	BARDOA	Gujrat	2	15	76000	1300	Ram_Singh	Less than
4	1	Mary	Joe	Thakur Marg	MUMBAI	Maharastra	1	5	32000	1200	Mary_Joe	Less than
5	3	Akshay	Kumar	SV Road	LUCKNOW	UP	3	25	67000	3400	Akshay_Kumar	Less than

b. Convert state column in lower case



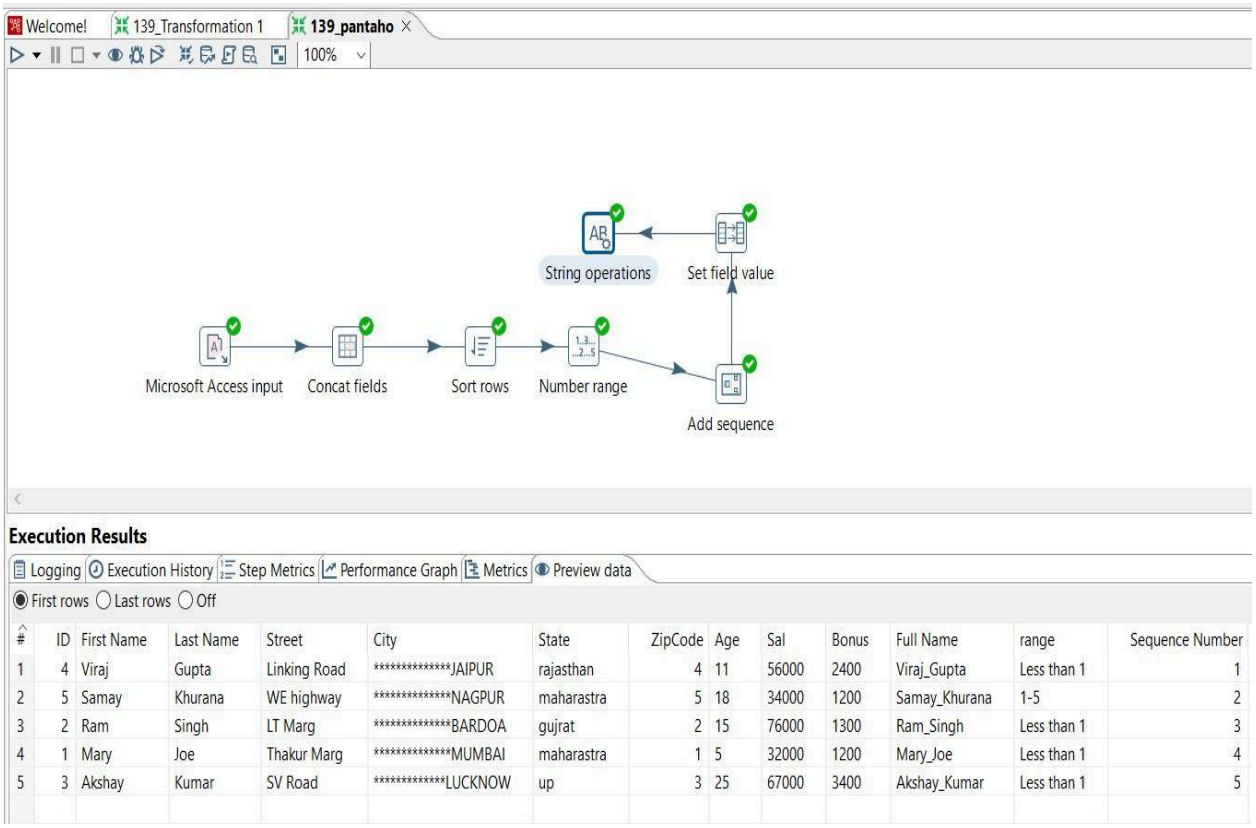
Execution Results

Logging | Execution History | Step Metrics | Performance Graph | Metrics | Preview data

First rows | Last rows | Off

#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name	range	Sequence Number
1	4	Viraj	Gupta	Linking Road	JAIPUR	rajasthan	4	11	56000	2400	Viraj_Gupta	Less than 1	1
2	5	Samay	Khurana	WE highway	NAGPUR	maharastra	5	18	34000	1200	Samay_Khurana	1-5	2
3	2	Ram	Singh	LT Marg	BARDOA	gujrat	2	15	76000	1300	Ram_Singh	Less than 1	3
4	1	Mary	Joe	Thakur Marg	MUMBAI	maharastra	1	5	32000	1200	Mary_Joe	Less than 1	4
5	3	Akshay	Kumar	SV Road	LUCKNOW	up	3	25	67000	3400	Akshay_Kumar	Less than 1	5

c. Apply left padding in city and fix width 20 and padding character should be "*"



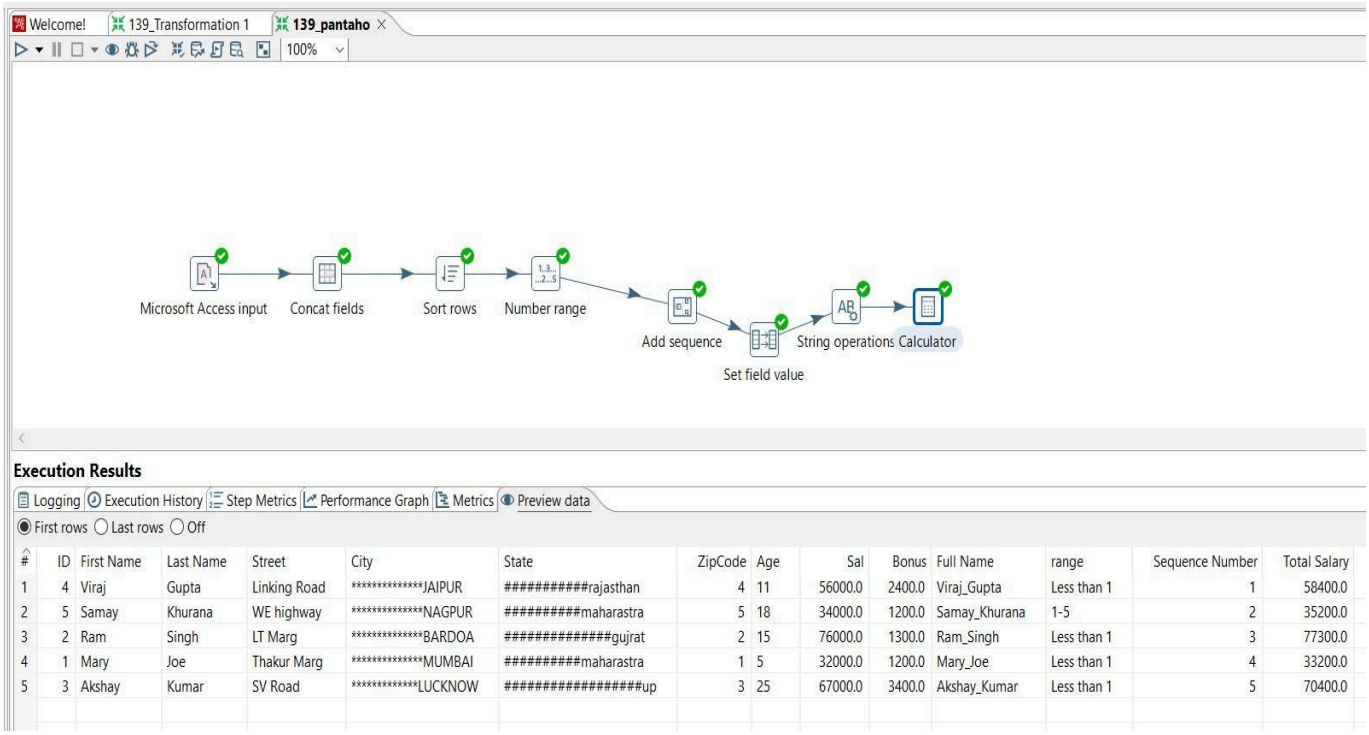
#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name	range	Sequence Number
1	4	Viraj	Gupta	Linking Road	**********JAIPUR	rajasthan	4	11	56000	2400	Viraj_Gupta	Less than 1	1
2	5	Samay	Khurana	WE highway	**********NAGPUR	maharastra	5	18	34000	1200	Samay_Khurana	1-5	2
3	2	Ram	Singh	LT Marg	**********BARDOA	gujrat	2	15	76000	1300	Ram_Singh	Less than 1	3
4	1	Mary	Joe	Thakur Marg	**********MUMBAI	maharastra	1	5	32000	1200	Mary_Joe	Less than 1	4
5	3	Akshay	Kumar	SV Road	**********LUCKNOW	up	3	25	67000	3400	Akshay_Kumar	Less than 1	5

d. Apply left padding in state and fix width 20 and padding character should be "#"

#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name	range	Sequence Number
1	4	Viraj	Gupta	Linking Road	**********JAIPUR	##########rajasthan	4	11	56000	2400	Viraj_Gupta	Less than 1	1
2	5	Samay	Khurana	WE highway	**********NAGPUR	#########maharastra	5	18	34000	1200	Samay_Khurana	1-5	2
3	2	Ram	Singh	LT Marg	**********BARDOA	##########gujrat	2	15	76000	1300	Ram_Singh	Less than 1	3
4	1	Mary	Joe	Thakur Marg	**********MUMBAI	#########maharastra	1	5	32000	1200	Mary_Joe	Less than 1	4
5	3	Akshay	Kumar	SV Road	**********LUCKNOW	##################up	3	25	67000	3400	Akshay_Kumar	Less than 1	5

9. Retrieve data from file staff.accdb and calculate total salary using which is sum of salary

and bonus column



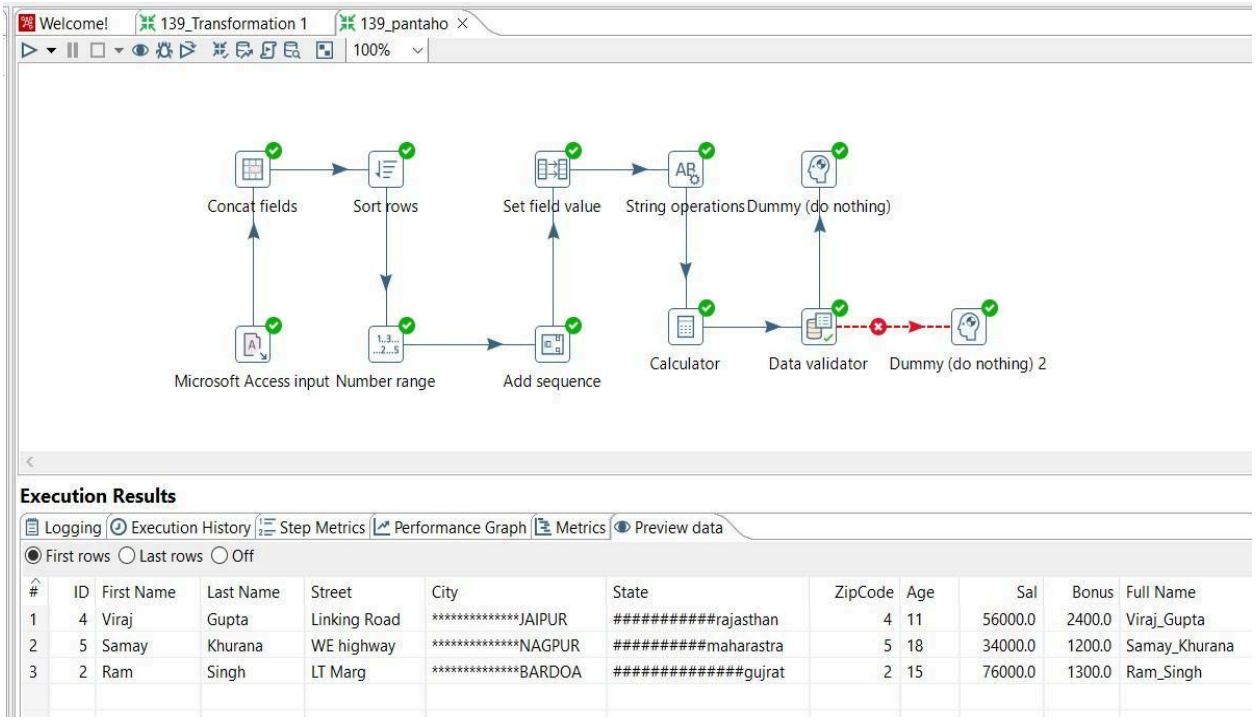
Execution Results

Logging | Execution History | Step Metrics | Performance Graph | Metrics | Preview data

First rows | Last rows | Off

#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name	range	Sequence Number	Total Salary
1	4	Viraj	Gupta	Linking Road	**********JAIPUR	##########rajasthan	4	11	56000.0	2400.0	Viraj_Gupta	Less than 1	1	58400.0
2	5	Samay	Khurana	WE highway	**********NAGPUR	#########maharastra	5	18	34000.0	1200.0	Samay_Khurana	1-5	2	35200.0
3	2	Ram	Singh	LT Marg	**********BARDOA	##########gujrat	2	15	76000.0	1300.0	Ram_Singh	Less than 1	3	77300.0
4	1	Mary	Joe	Thakur Marg	**********MUMBAI	#########maharastra	1	5	32000.0	1200.0	Mary_Joe	Less than 1	4	33200.0
5	3	Akshay	Kumar	SV Road	**********LUCKNOW	##################up	3	25	67000.0	3400.0	Akshay_Kumar	Less than 1	5	70400.0

10. Retrieve data from file staff.accdb and validate Age field where age should be greater or equal to 18



Execution Results

Logging | Execution History | Step Metrics | Performance Graph | Metrics | Preview data

First rows | Last rows | Off

#	ID	First Name	Last Name	Street	City	State	ZipCode	Age	Sal	Bonus	Full Name
1	4	Viraj	Gupta	Linking Road	**********JAIPUR	##########rajasthan	4	11	56000.0	2400.0	Viraj_Gupta
2	5	Samay	Khurana	WE highway	**********NAGPUR	#########maharastra	5	18	34000.0	1200.0	Samay_Khurana
3	2	Ram	Singh	LT Marg	**********BARDOA	##########gujrat	2	15	76000.0	1300.0	Ram_Singh