Департамент образования и науки города Москвы

Государственное автономное образовательное учреждение высшего образования города Москвы

«Московский городской педагогический университет»

Институт цифрового образования Департамент информатики, управления и технологий

Башкатова Анна Денисовна

ОТЧЕТ

по дисциплине «Инструменты для хранения и обработки больших данных»

Тема: «Домашняя работа 1 "ETL Компоненты и начало работы с ETL на
примере Pentaho Data Integration"»

Направление подготовки (специальность) 38.03.05 — бизнес-информатика Направленность (профиль) образовательной программы «Аналитика данных и эффективное управление»

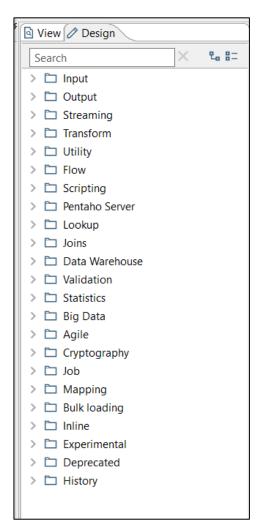
Курс обучения: 3

Форма обучения: очная

Руководитель: Босенко Т. М.

Работа по видео: https://www.youtube.com/watch?v=-oCBttnefMQ

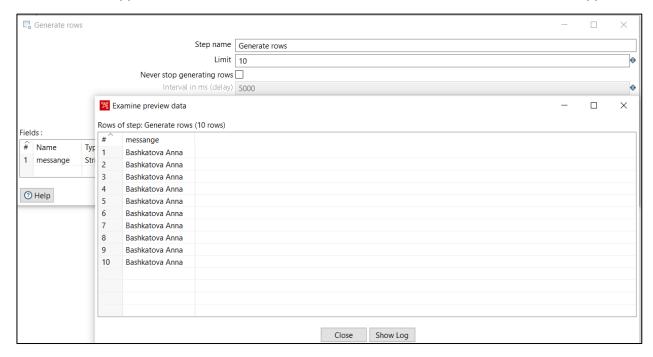
#### Компоненты:



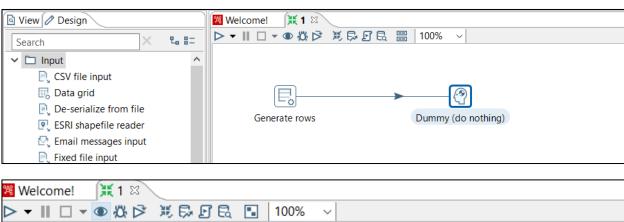
### Создание job1.

Добавляем первый компонент – generate rows.



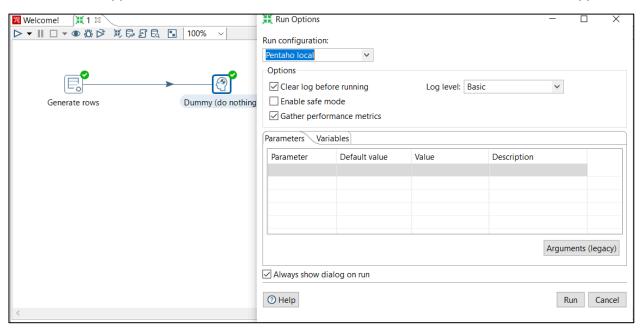


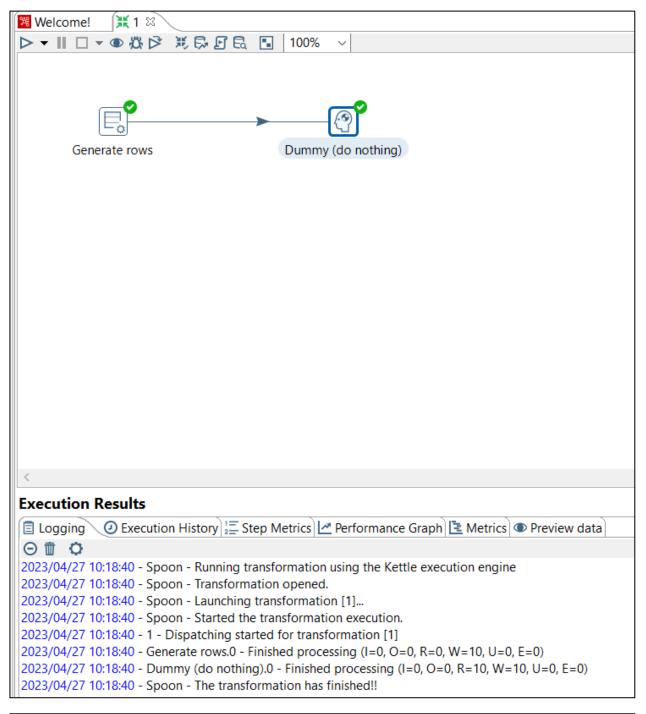
## Далее добавляем dummy

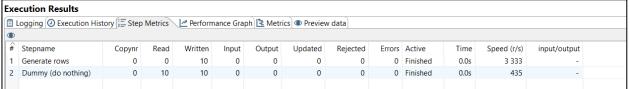




Запуск

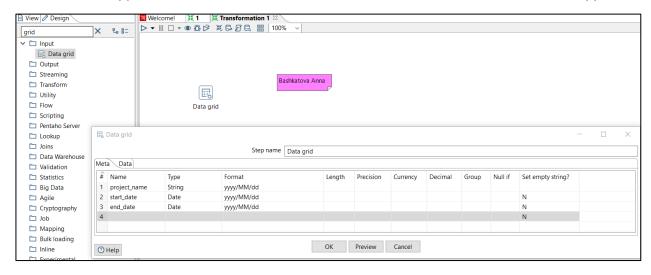


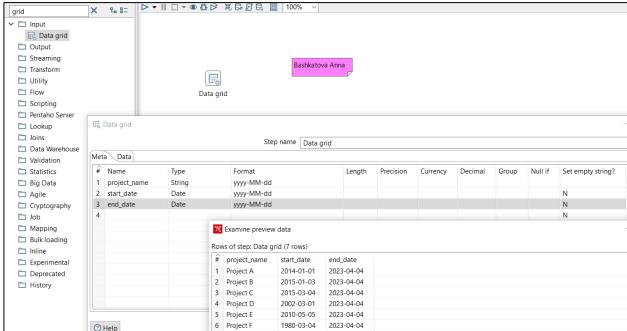




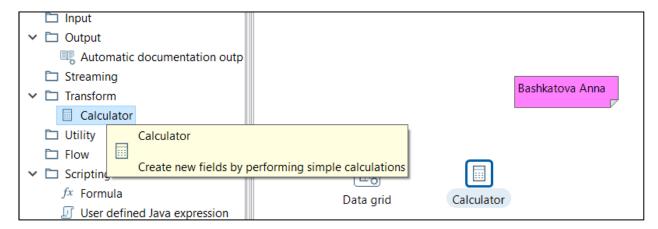
# Создание job2.

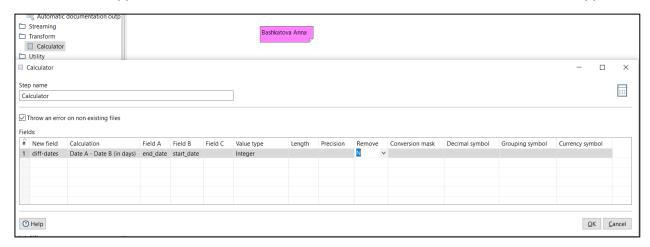
Добавление компонента data grid (создает статические значения)



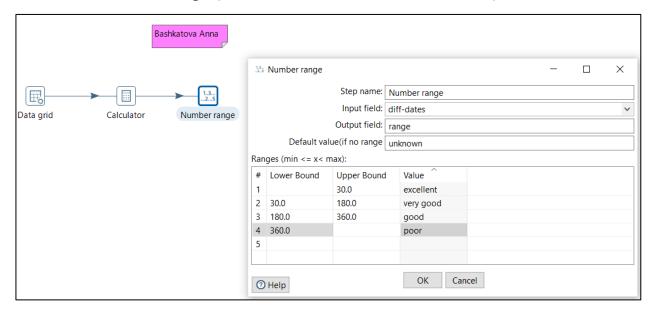


#### Добавляем Calculator

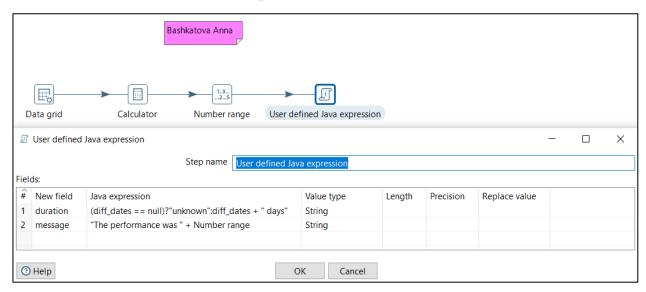


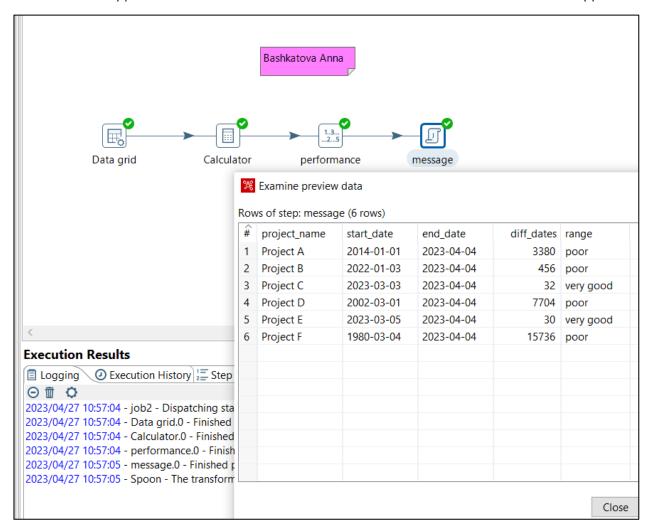


### Добавляем number range (создает последовательность чисел).



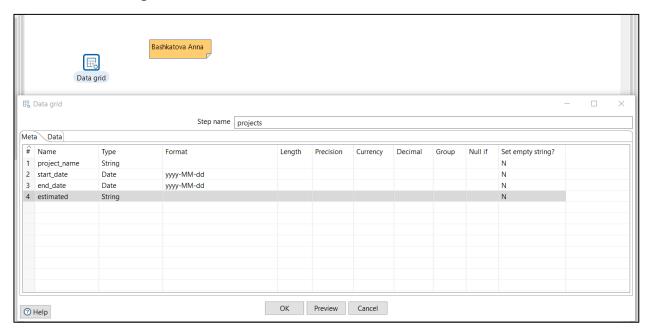
# Добавляем User defined Java expression

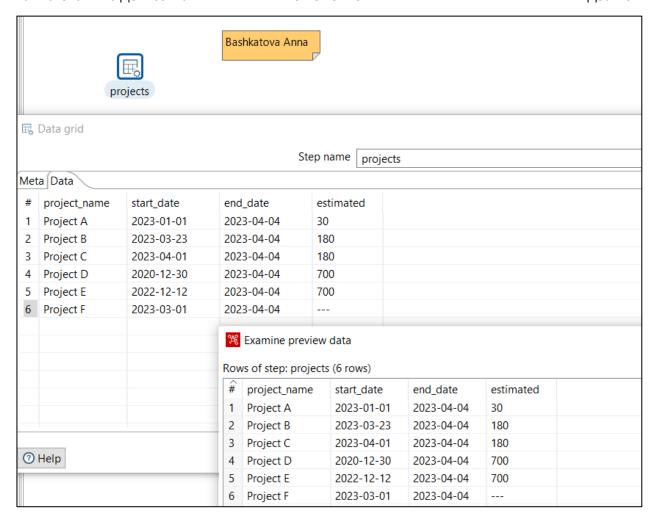




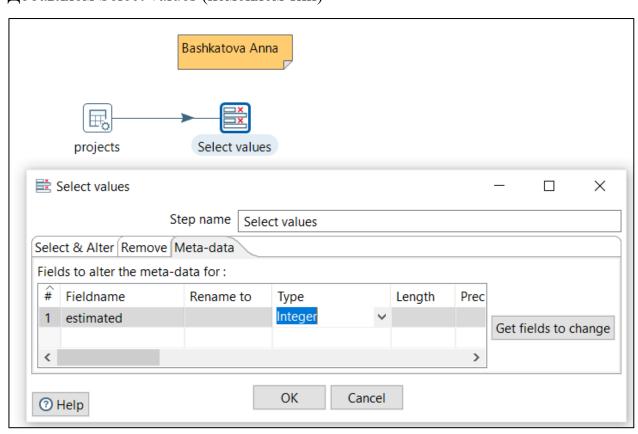
#### Создаем job3.

# Добавляем data grid

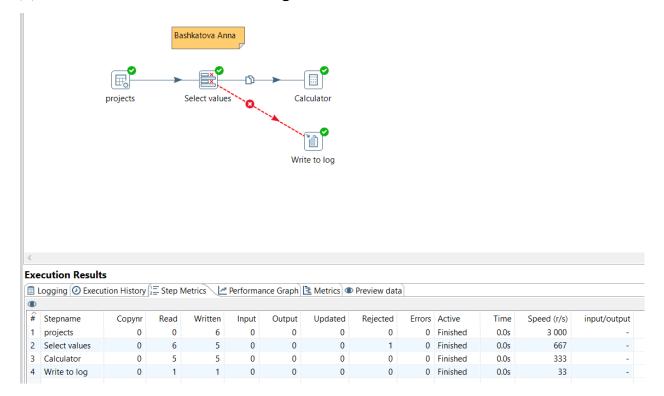




### Добавляем Select values (изменяем тип)

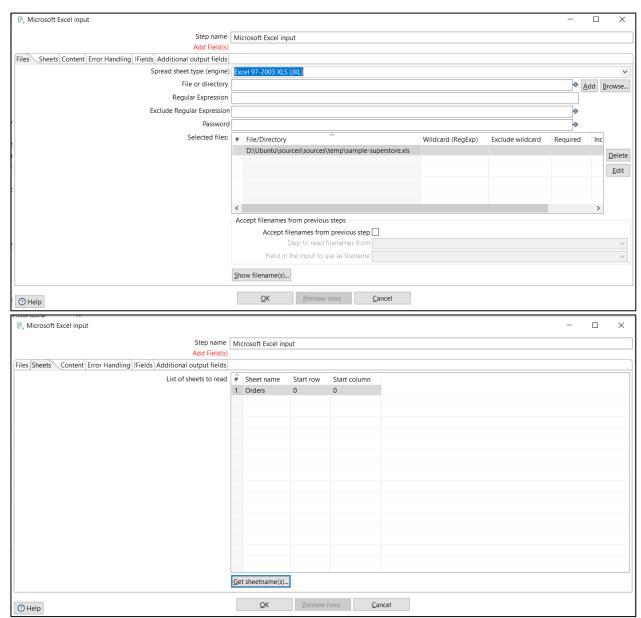


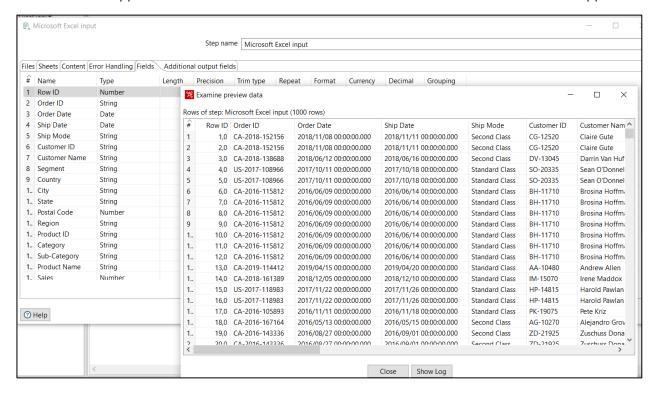
# Добавляем calculator и write to log



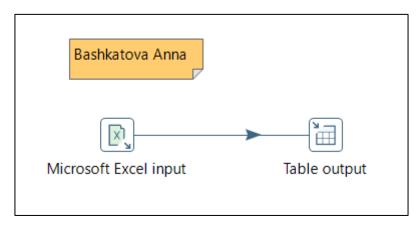
# Создаем job4.

Добавляем Microsoft Excel input



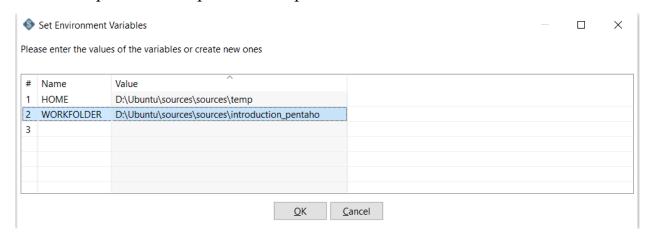


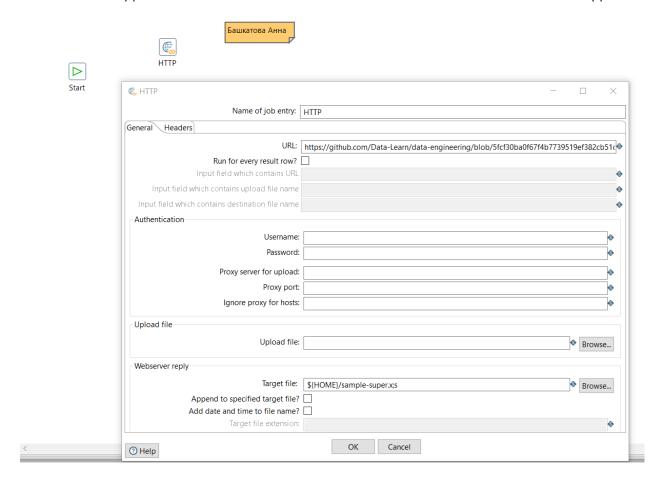
#### Подключение к БД

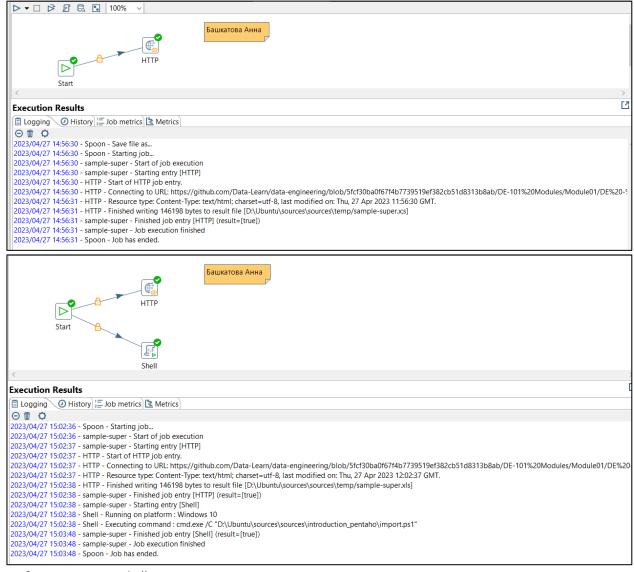


#### Создаем јов

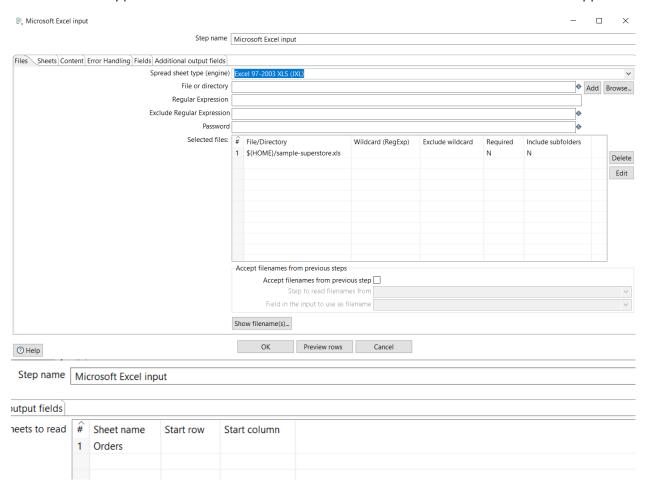
#### Создаем временные переменные к рабочим папкам.

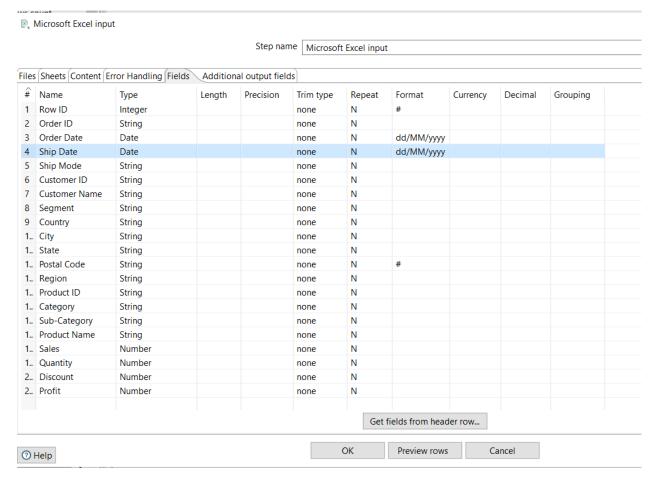






Добавляем эксель файл







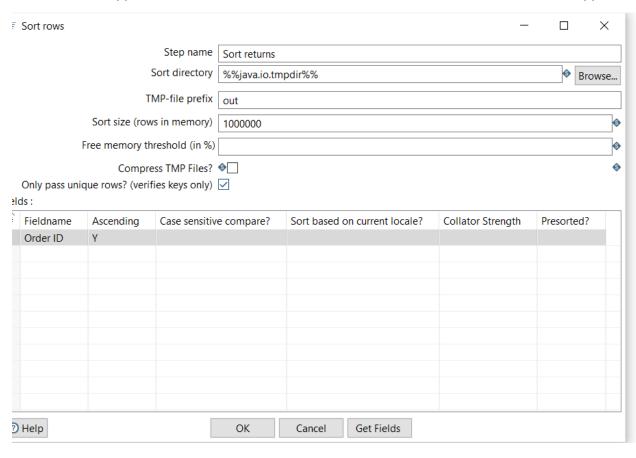
Orders Excel input

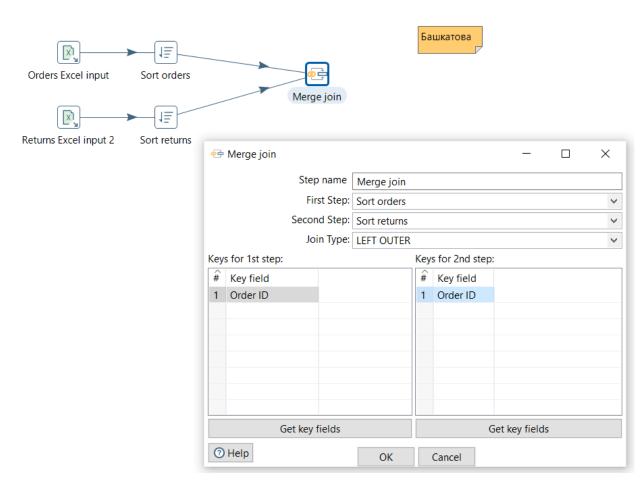


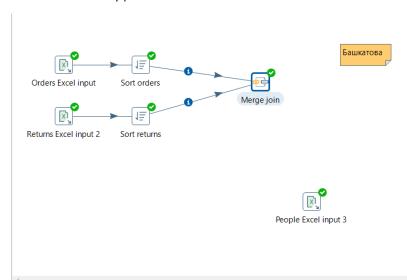
Returns Excel input 2



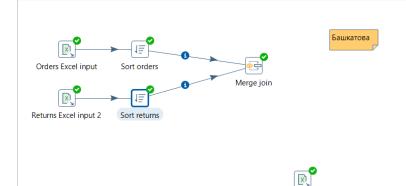
People Excel input 2 2





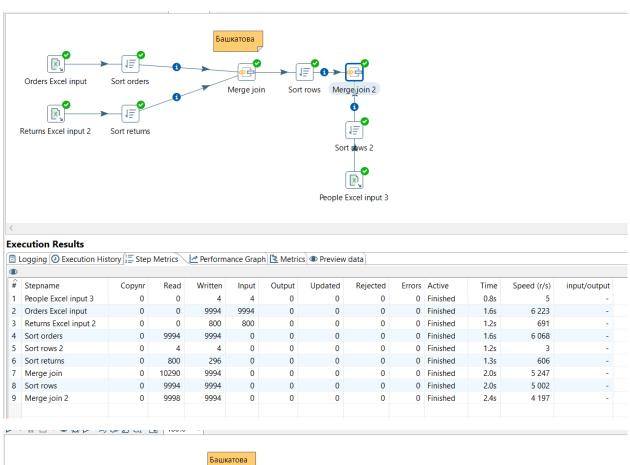


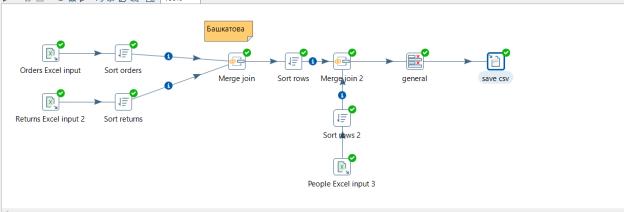
#### **Execution Results** 🔳 Logging 🗿 Execution History 🖫 Step Metrics 🗠 Performance Graph 🔁 Metrics 💿 Preview data ● First rows ○ Last rows ○ Off Row ID Order ID Ship Date Customer ID Order Date Ship Mode **Customer Name** Segment Country City 2718 CA-2016-100006 07/09/2016 13/09/2016 Standard Class DK-13375 Dennis Kane Consumer United States New Yorl 12/07/2016 EB-13705 2 6288 CA-2016-100090 08/07/2016 Standard Class Ed Braxton Corporate United States San Fran 6289 CA-2016-100090 08/07/2016 12/07/2016 Standard Class EB-13705 Ed Braxton Corporate United States San Fran 3 9515 CA-2016-100293 18/03/2016 Standard Class NF-18475 Home Office United States 4 14/03/2016 Neil Franzusisch Jacksonv 5 3084 CA-2016-100328 28/01/2016 03/02/2016 Standard Class JC-15340 Jasper Cacioppo Consumer **United States** New York 6 3836 CA-2016-100363 08/04/2016 15/04/2016 Standard Class JM-15655 Jim Mitchum Corporate United States Glendale 7 3837 CA-2016-100363 08/04/2016 15/04/2016 Standard Class JM-15655 Jim Mitchum Corporate United States Glendale 8 9441 CA-2016-100391 25/05/2016 29/05/2016 Standard Class BW-11065 Barry Weirich Consumer United States New York



ا 🖺	Logging ② Execution His	tory 📜 Step	Metrics	Performa	ance Grap	h 🔁 Metric	s Preview	data					
D													
#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	input/output
1	Orders Excel input	0	0	9994	9994	0	0	0	0	Finished	1.8s	5 656	-
2	People Excel input 3	0	0	4	4	0	0	0	0	Finished	1.2s	3	-
3	Returns Excel input 2	0	0	800	800	0	0	0	0	Finished	1.2s	654	-
4	Sort returns	0	800	296	0	0	0	0	0	Finished	1.4s	566	-
5	Sort orders	0	9994	9994	0	0	0	0	0	Finished	1.8s	5 467	=
6	Merge join	0	10290	9994	0	0	0	0	0	Finished	2.2s	4 650	-

People Excel input 3





ا 🖺	ogging 🗿 Execution His	tory 📜 Step	Metrics	Perform:	ance Grap	h 📴 Metric	s Preview	data					
#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	input/output
1	Returns Excel input 2	0	0	800	800	0	0	0	0	Finished	1.1s	700	-
2	People Excel input 3	0	0	4	4	0	0	0	0	Finished	1.1s	3	-
3	Orders Excel input	0	0	9994	9994	0	0	0	0	Finished	1.6s	6 196	-
4	Sort returns	0	800	296	0	0	0	0	0	Finished	1.3s	603	-
5	Sort orders	0	9994	9994	0	0	0	0	0	Finished	1.7s	6 050	-
6	Sort rows 2	0	4	4	0	0	0	0	0	Finished	1.3s	3	-
7	Merge join	0	10290	9994	0	0	0	0	0	Finished	2.0s	5 245	-
8	Sort rows	0	9994	9994	0	0	0	0	0	Finished	2.0s	4 972	-
9	Merge join 2	0	9998	9994	0	0	0	0	0	Finished	2.4s	4 231	-
1	general	0	9994	9994	0	0	0	0	0	Finished	2.4s	4 192	-
1	save csv	0	9994	9994	0	9994	0	0	0	Finished	2.4s	4 135	-