

This presentation discusses how to write data to a Microsoft® Excel spreadsheet using the Unstructured Data Stage in IBM InfoSphere® DataStage® version 11.3.

IBM

Objectives

- Create a DataStage job
- Configure Sequential File Stage
- Configure Unstructured Data Stage
- Compile and run job
- View output of job

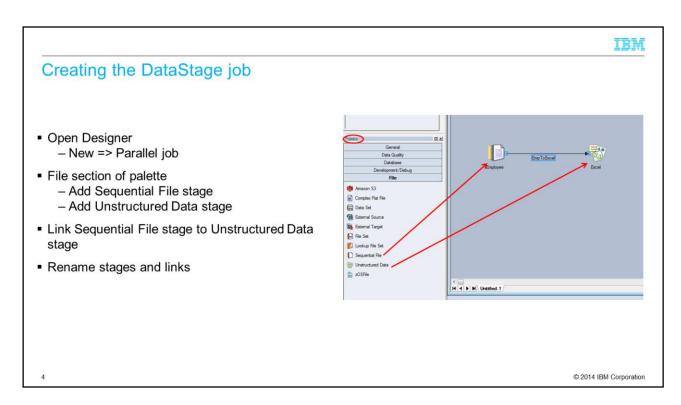
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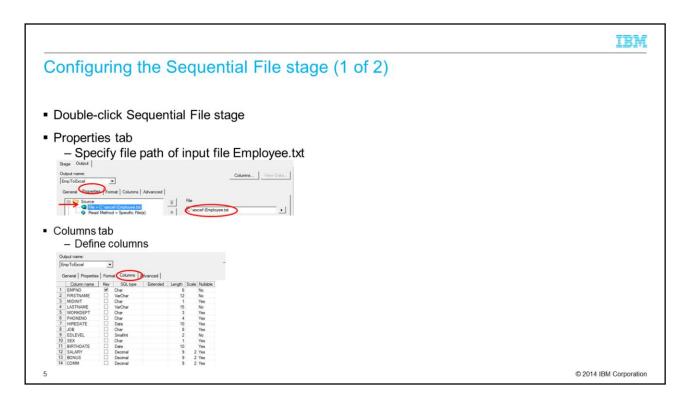
The objectives of this presentation are to show how to create a DataStage job that reads from a Sequential File stage and writes to a Microsoft Excel spreadsheet using the Unstructured Data stage. This presentation includes step-by-step instructions starting from creation and configuration of the job to running the job and viewing the target data.



This presentation uses a text file, Employee.txt, as the source data. The source file contains information of employees in CSV, comma-separated value, format. The slides to follow demonstrate how this information can be written to a Microsoft Excel spreadsheet.



The first step is to create a new DataStage parallel job. Open the DataStage designer client and pick New => Parallel job. From the File section of the Palette, drag a Sequential File stage and an Unstructured Data stage to the canvas and link the two together. To make the job design on the canvas more readable, right-click each stage and the link and rename them appropriately.



In this example, the Sequential File stage is used as the source. Double-click the Sequential File stage to edit the properties. On the Properties tab, specify the path to the input file Employee.txt. Next, on the Columns tab, define the columns and click OK to save the changes.

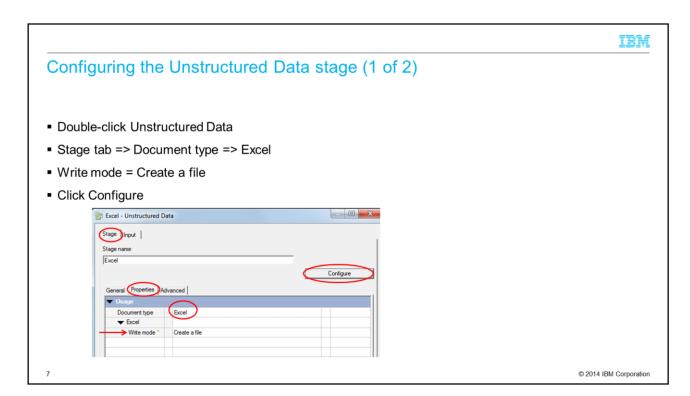


Configuring the Sequential File stage (2 of 2)

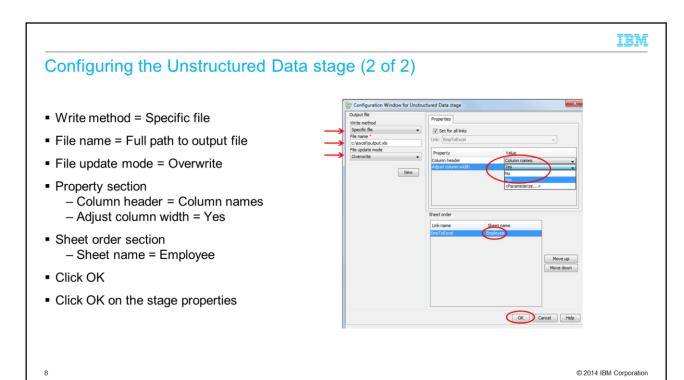
Right-click Sequential File Stage => View Employee Data

EMPNO	FIRSTNAME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	JOB	EDLEVEL	SEX	BIRTHDATE	SALARY	BONUS	COMM
000010	CHRISTINE	I	HAAS	A00	3978	1995-01-01	PRES	18	F	1963-08-24	0152750.0	0001000.0	0004220.0
000020	MICHAEL	L	THOMPSON	B01	3476	2003-10-10	MANAGER	18	M	1978-02-02	0094250.0	0000800.0	0003300.0
000030	SALLY	A	KWAN	C01	4738	2005-04-05	MANAGER	20	F	1971-05-11	0098250.0	0000800.0	0003060.0
000050	JOHN	В	GEYER	E01	6789	1979-08-17	MANAGER	16	M	1955-09-15	0080175.0	0000800.0	0003214.0
000060	IRVING	F	STERN	D11	6423	2003-09-14	MANAGER	16	M	1975-07-07	0072250.0	0000500.0	0002580.0
000070	EVA	D	PULASKI	D21	7831	2005-09-30	MANAGER	16	F	2003-05-26	0096170.0	0000700.0	0002893.0
000090	EILEEN	W	HENDERSON	E11	5498	2000-08-15	MANAGER	16	F	1971-05-15	0089750.0	0000600.0	0002380.0
000100	THEODORE	2	SPENSER	E21	0972	2000-06-19	MANAGER	14	M	1980-12-18	0086150.0	0000500.0	0002092.0
000110	VINCENZO	G	LUCCHESSI	A00	3490	1988-05-16	SALESREP	19	M	1959-11-05	0066500.0	0000900.0	0003720.0
000120	SEAN		O'CONNELL	A00	2167	1993-12-05	CLERK	14	M	1972-10-18	0049250.0	0000600.0	0002340.0
000130	DELORES	M	QUINTANA	C01	4578	2001-07-28	ANALYST	16	F	1955-09-15	0073800.0	0000500.0	0001904.0
000140	HEATHER	A	NICHOLLS	C01	1793	2006-12-15	ANALYST	18	F	1976-01-19	0068420.0	0000600.0	0002274.0
000150	BRUCE		ADAMSON	D11	4510	2002-02-12	DESIGNER	16	M	1977-05-17	0055280.0	0000500.0	0002022.0
000160	ELIZABETH	R	PIANKA	D11	3782	2006-10-11	DESIGNER	17	F	1980-04-12	0062250.0	0000400.0	0001780.0
000170	MASATOSHI	J	YOSHIMURA	D11	2890	1999-09-15	DESIGNER	16	M	1981-01-05	0044680.0	0000500.0	0001974.0
000180	MARILYN	S	SCOUTTEN	D11	1682	2003-07-07	DESIGNER	17	F	1979-02-21	0051340.0	0000500.0	0001707.0
000190	JAMES	H	WALKER	D11	2986	2004-07-26	DESIGNER	16	M	1982-06-25	0050450.0	0000400.0	0001636.0
000200	DAVID		BROWN	D11	4501	2002-03-03	DESIGNER	16	M	1971-05-29	0057740.0	0000600.0	0002217.0
000210	WILLIAM	T	JONES	D11	0942	1998-04-11	DESIGNER	17	M	2003-02-23	0068270.0	0000400.0	0001462.0
000220	JENNIFER	K	LUTZ	D11	0672	1998-08-29	DESIGNER	18	F	1978-03-19	0049840.0	0000600.0	0002387.0
000230	JAMES	J	JEFFERSON	D21	2094	1996-11-21	CLERK	14	M	1980-05-30	0042180.0	0000400.0	0001774.0
000240	SALVATORE	M	MARINO	D21	3780	2004-12-05	CLERK	17	M	2002-03-31	0048760.0	0000600.0	0002301.0

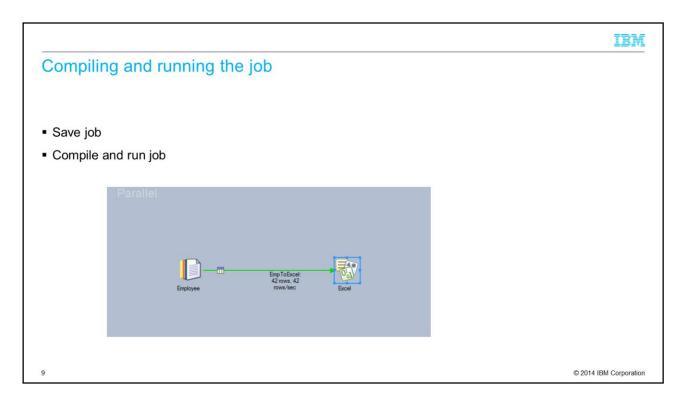
Next, right-click the Sequential File stage and select "View Employee Data" to view the Employee.txt file's content. This step validates that the Sequential File stage is configured properly.



Next, double-click the Unstructured Data stage to open the stage properties. On the Stage tab, select Excel from the Document type list and select Create a file from the Write mode list. Click Configure.



In the configuration window that opens after clicking Configure, select "Specific file" for the Write method, enter the full path to the output file including the file name, and choose Overwrite for the file update mode. Next, under the Property section, set Column header to Column names if you want the first row to be the column names. Set it to None if the first row should be data. Set the Adjust column width to Yes to adjust the column width in the sheet to fit the contents of the column. Finally, enter in the sheet name and click OK. This brings you back to the main property page for the stage. Click OK to save.



Next, save and compile the job. Run the job and view the output.



Viewing the output of the job

• Open Output.xls to view results

EMPNO	FIRSTNAME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	JOB	EDLEVEL	SEX	BIRTHDATE	SALARY	BONUS	COMM
000010	CHRISTINE	1	HAAS	A00	3978	1995-01-01	PRES	18	F	1963-08-24	152750	1000	4220
000020	MICHAEL	L	THOMPSON	B01	3476	2003-10-10	MANAGER	18	M	1978-02-02	94250	800	3300
000030	SALLY	A	KWAN	C01	4738	2005-04-05	MANAGER	20	F	1971-05-11	98250	800	3060
000050	JOHN	В	GEYER	E01	6789	1979-08-17	MANAGER	16	M	1955-09-15	80175	800	3214
000060	IRVING	F	STERN	D11	6423	2003-09-14	MANAGER	16	M	1975-07-07	72250	500	2580
000070	EVA	D	PULASKI	D21	7831	2005-09-30	MANAGER	16	F	2003-05-26	96170	700	2893
000090	EILEEN	W	HENDERSON	E11	5498	2000-08-15	MANAGER	16	F	1971-05-15	89750	600	2380
000100	THEODORE	Q	SPENSER	E21	0972	2000-06-19	MANAGER	14	M	1980-12-18	86150	500	2092
000110	VINCENZO	G	LUCCHESSI	A00	3490	1988-05-16	SALESREP	19	M	1959-11-05	66500	900	3720
000120	SEAN		O'CONNELL	A00	2167	1993-12-05	CLERK	14	M	1972-10-18	49250	600	2340
000130	DELORES	M	QUINTANA	C01	4578	2001-07-28	ANALYST	16	F	1955-09-15	73800	500	1904
000140	HEATHER	A	NICHOLLS	C01	1793	2006-12-15	ANALYST	18	F	1976-01-19	68420	600	2274
000150	BRUCE		ADAMSON	D11	4510	2002-02-12	DESIGNER	16	M	1977-05-17	55280	500	2022
000160	ELIZABETH	R	PIANKA	D11	3782	2006-10-11	DESIGNER	17	7 F	1980-04-12	62250	400	1780
000170	MASATOSHI	J	YOSHIMURA	D11	2890	1999-09-15	DESIGNER	16	M	1981-01-05	44680	500	1974
000180	MARILYN	S	SCOUTTEN	D11	1682	2003-07-07	DESIGNER	17	7 F	1979-02-21	51340	500	1707
000190	JAMES	Н	WALKER	D11	2986	2004-07-26	DESIGNER	16	M	1982-06-25	50450	400	1636
000200	DAVID		BROWN	D11	4501	2002-03-03	DESIGNER	16	M	1971-05-29	57740	600	2217
000210	WILLIAM	Т	JONES	D11	0942	1998-04-11	DESIGNER	17	M	2003-02-23	68270	400	1462

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After you run the job, open the file and verify the output. This slide displays the data in Output.xls in Microsoft Excel.



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