

IBM DataStage - Showcasing Some Features & Best Practices

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IBM Cloud Pak for Data - DataStage

Machine Learning features that improve your productivity when building jobs

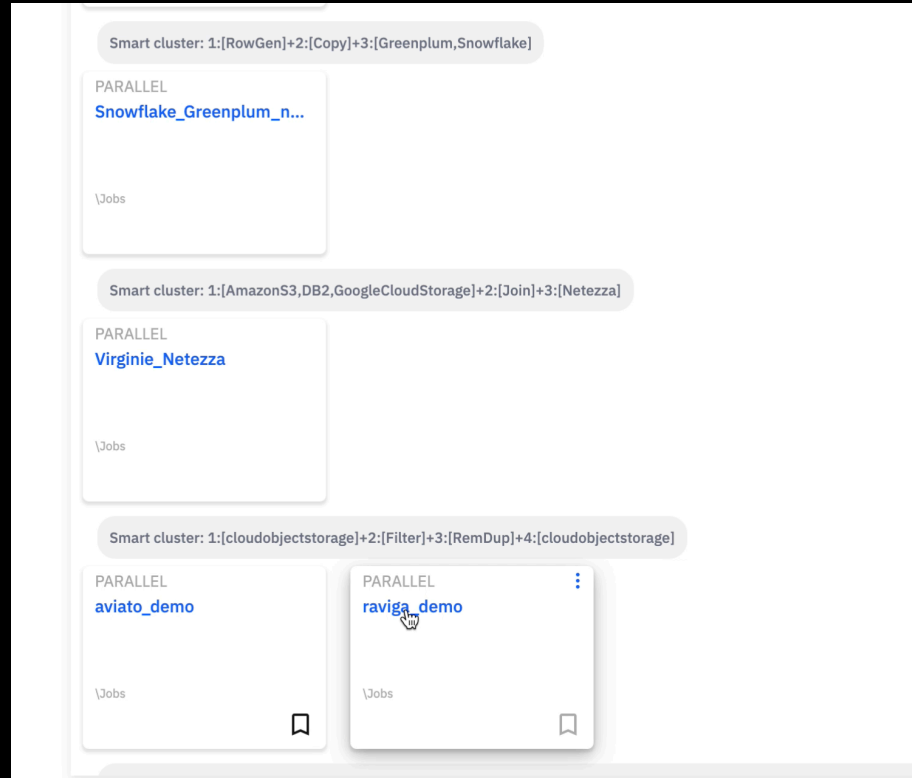
A powerful **hierarchical stage** use case

Importing **Microsoft Excel** files via the unstructured data stage

Allowing DataStage to auto-choose the best nodes to run jobs via **dynamic configuration**

Job Clustering

- Smart cluster



Smart Palette

- Ranked connectors and stages

naviga_demo

Search (92 shown)

Search all containing...

> CONNECTOR

STAGES

Annotation Transformer Join Peek Row Generator Copy

Filter Remove Checksum Sort Aggregator BloomFilter Duplicates

Change Apply Change Capture Column Export Column Generator Column Import Combine Records

Compare Compress Decode Difference Encode Expand

Apply horizontal layout

- ☒ Annotation
- ☒ Arrows
- ☒ Link name
- ☒ Type
- ☒ Auto-propagation
- ☒ Smart palette
- ☒ Smart stage suggestions

COS_1

Link_5

Filter_2

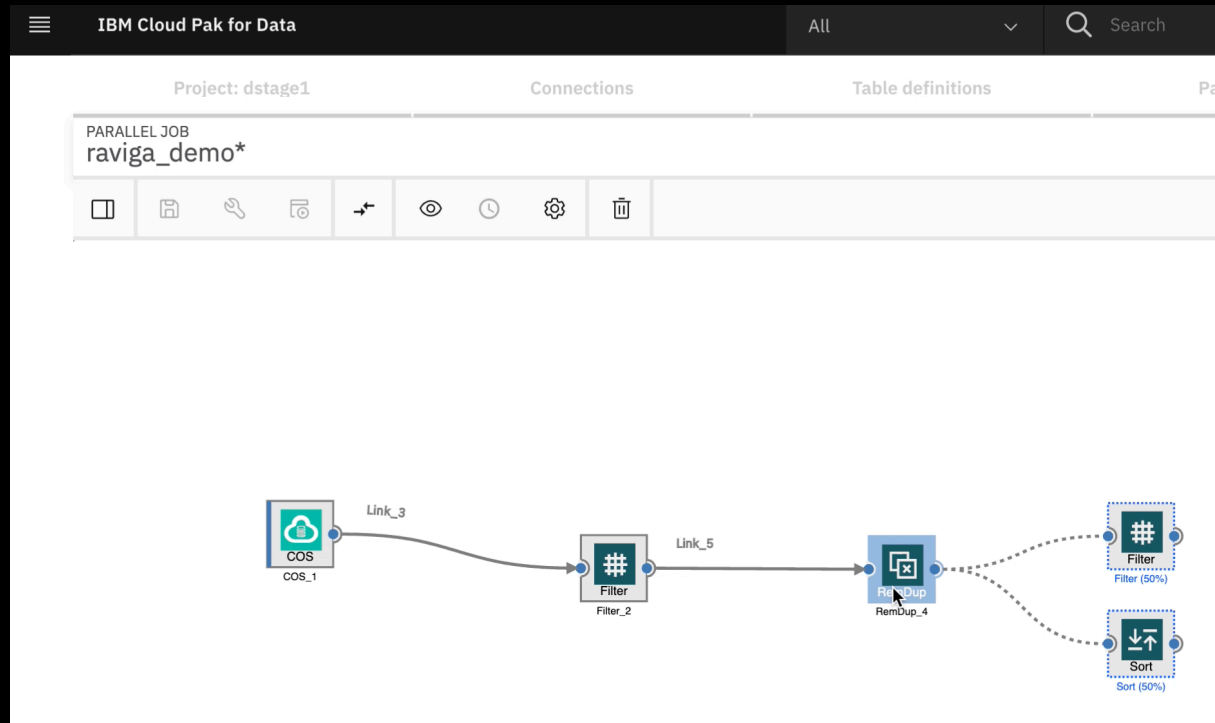
Link_7

RemDup_4

COS_6

Stage Suggestions

- Predicts your next move



Hierarchical Stage

- Import JSON file and invoke REST services
- NASA open dataset: <https://data.nasa.gov/resource/2vr3-k9wn.json>

```
[{"designation": "419880 (2011 AH37)", "discovery_date": "2011-01-07T00:00:00.000", "h_mag": "19.7", "moid_au": "0.035", "q_au_1": "0.84", "q_au_2": "4.26", "period_yr": "4.06", "i_deg": "9.65", "pha": "Y", "orbit_class": "Apollo"}, {"designation": "419624 (2010 SO16)", "discovery_date": "2010-09-17T00:00:00.000", "h_mag": "20.5", "moid_au": "0.028", "q_au_1": "0.93", "q_au_2": "1.08", "period_yr": "1", "i_deg": "14.52", "pha": "Y", "orbit_class": "Apollo"}, {"designation": "414772 (2010 OC103)", "discovery_date": "2010-07-28T00:00:00.000", "h_mag": "19", "moid_au": "0.333", "q_au_1": "0.39", "q_au_2": "2", "period_yr": "1.31", "i_deg": "23.11", "pha": "N", "orbit_class": "Apollo"}, {"designation": "414746 (2010 EH20)", "discovery_date": "2010-03-06T00:00:00.000", "h_mag": "18", "moid_au": "0.268", "q_au_1": "1.25", "q_au_2": "3.99", "period_yr": "4.24", "i_deg": "23.89", "pha": "N", "orbit_class": "Amor"}, {"designation": "407324 (2010 OB101)", "discovery_date": "2010-07-18T00:00:00.000", "h_mag": "20.7", "moid_au": "0.111", "q_au_1": "0.77", "q_au_2": "2.46", "period_yr": "2.06", "i_deg": "9.12", "pha": "N", "orbit_class": "Apollo"}, {"designation": "398188 (2010 LE15)", "discovery_date": "2010-06-03T00:00:00.000", "h_mag": "19.5", "moid_au": "0.024", "q_au_1": "0.63", "q_au_2": "1.1", "period_yr": "0.8", "i_deg": "13.25", "pha": "Y", "orbit_class": "Aten"}, {"designation": "395207 (2010 HQ80)", "discovery_date": "2010-04-25T00:00:00.000", "h_mag": "19.6", "moid_au": "0.007", "q_au_1": "0.8", "q_au_2": "2.34", "period_yr": "1.96", "i_deg": "27.85", "pha": "Y", "orbit_class": "Apollo"}, {"designation": "386847 (2010 LR33)", "discovery_date": "2010-06-06T00:00:00.000", "h_mag": "18", "moid_au": "0.029", "q_au_1": "0.91", "q_au_2": "2.48", "period_yr": "2.2", "i_deg": "5.84", "pha": "Y", "orbit_class": "Apollo"}, {"designation": "381989 (2010 HR80)", "discovery_date": "2010-04-28T00:00:00.000", "h_mag": "19.9", "moid_au": "0.104", "q_au_1": "0.68", "q_au_2": "2.02", "period_yr": "1.56", "i_deg": "26.71", "pha": "N", "orbit_class": "Apollo"}, {"designation": "369454 (2010 NZ1)", "discovery_date": "2010-07-09T00:00:00.000", "h_mag": "19.4", "moid_au": "0.275", "q_au_1": "0.49", "q_au_2": "2.26", "period_yr": "1.61", "i_deg": "32.78", "pha": "N", "orbit_class": "Apollo"}, {"designation": "365449 (2010 NJ1)", "discovery_date": "2010-07-03T00:00:00.000", "h_mag": "20.3", "moid_au": "0.155", "q_au_1": "0.44", "q_au_2": "1.49", "period_yr": "0.95", "i_deg": "11.23", "pha": "N", "orbit_class": "Aten"}, {"designation": "365424 (2010 KX7)", "discovery_date": "2010-05-16T00:00:00.000", "h_mag": "21.9", "moid_au": "0.034", "q_au_1": "0.82", "q_au_2": "1.16", "period_yr": "0.98", "i_deg": "21.49", "pha": "Y", "orbit_class": "Aten"}, {"designation": "356394 (2010 QD2)", "discovery_date": "2010-08-21T00:00:00.000", "h_mag": "17.4", "moid_au": "0.061", "q_au_1": "0.43", "q_au_2": "3.59", "period_yr": "2.85", "i_deg": "10.64", "pha": "N", "orbit_class": "Apollo"}, {"designation": "2015 HF11", "discovery_date": "2015-04-17T00:00:00.000", "h_mag": "19.2", "moid_au": "0.225", "q_au_1": "1.22", "q_au_2": "2.93", "period_yr": "2.99", "i_deg": "34.89", "pha": "N", "orbit_class": "Amor"}, {"designation": "2015 GK50", "discovery_date": "2015-04-05T00:00:00.000", "h_mag": "20.5", "moid_au": "0.237", "q_au_1": "1.03", "q_au_2": "5.12", "period_yr": "5.39", "i_deg": "19.07", "pha": "N", "orbit_class": "Amor"}, {"designation": "2015 GJ46", "discovery_date": "2015-04-11T00:00:00.000", "h_mag": "19.3", "moid_au": "0.238", "q_au_1": "0.67", "q_au_2": "5.06", "period_yr": "4.85", "i_deg": "18.22", "pha": "N", "orbit_class": "Apollo"}, {"designation": "2015 FT344", "discovery_date": "2015-03-23T00:00:00.000", "h_mag": "20.5", "moid_au": "0.203", "q_au_1": "1.09", "q_au_2": "4.01", "period_yr": "4.07", "i_deg": "12.55", "pha": "N", "orbit_class": "Amor"}, {"designation": "2015 PD341", "discovery_date": "2015-03-27T00:00:00.000", "h_mag": "18", "moid_au": "0.124", "q_au_1": "0.31", "q_au_2": "1.6", "period_yr": "0.93", "i_deg": "20.55", "pha": "N", "orbit_class": "Aten"}, {"designation": "2015 FU332", "discovery_date": "2015-03-
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Hierarchical Stage

- REST transformation

Hierarch_1 - Hierarchical stage

Stage name

Hierarch_1

Stage	Output	Assembly Editor		Libraries
Administration	Test Assembly	1. Input	2. REST	3. Output
General	Security	Request	Response	Mappings

HTTP method

GET

Reusable connection

(Not used)

Configure

URL

https://data.nasa.gov/resource/2vr3-k9wn.json

HTTP Version

HTTP 1.1

Cancel

OK

Hierarchical Stage

- REST transformation

Hierarch_1 - Hierarchical stage

Stage name

Hierarch_1

Stage	Output	Assembly Editor		Libraries
Administration	Test Assembly	1. Input	2. REST	3. Output

Display name

REST

+ Add step

Jump to

Properties

General	Security	Request	Response	Mappings
☒ Pass the received body to: ☒ A text node named body in the Output schema ☐ A binary node named body in the Output schema ☐ A node named bodyLobObject that a downstream connector will process as a binary large object ☐ A node named bodyLobObject that a downstream connector will process as a character large object Content Type application/ json ☐ De-compress the received body				

Cancel

OK

Hierarchical Stage

- JSON parser

The screenshot shows the 'Hierarch_1 - Hierarchical stage' configuration window. At the top, the 'Stage name' is 'Hierarch_1'. Below this is a horizontal navigation bar with four tabs: 'Administration', 'Test Assembly', 'Assembly Editor', and 'Libraries'. The 'Assembly Editor' tab is active, showing a sequence of steps: '1. Input', '2. REST', '3. JSON_Parser', and '4. Output'. The 'JSON_Parser' step is selected, and its 'Display name' is 'JSON_Parser'. To the right of the 'Display name' is a 'Jump to' dropdown menu set to 'Properties'. Below the navigation bar, there are three sub-sections: 'JSON Source', 'Document root', and 'Validation'. The 'JSON Source' section is active, showing a 'String set' of JSON paths. A list of paths is displayed, with 'top/REST:result/GETResponse/body' selected. A 'Choose File' button is visible to the right of the list.

Hierarch_1 - Hierarchical stage

Stage name

Hierarch_1

Stage Output Assembly Editor Libraries

Administration Test Assembly 1. Input 2. REST 3. JSON_Parser 4. Output

Display name JSON_Parser + Add step Jump to Properties

JSON Source Document root Validation

String set

- top/REST:result/GETResponse/callStatus/success
- top/REST:result/GETResponse/callStatus/errorMessage
- top/REST:result/GETResponse/callStatus/faultHttpStatusCode
- top/REST:result/GETResponse/callStatus/faultHttpBody
- top/REST:result/GETResponse/statusLine/httpVersion
- top/REST:result/GETResponse/statusLine/statusCode
- top/REST:result/GETResponse/statusLine/reasonPhrase
- top/REST:result/GETResponse/body

Choose File

Hierarchical Stage

- JSON parser

Hierarch_1 - Hierarchical stage

Stage name

Hierarch_1

Stage	Output	Assembly Editor	Libraries		
Administration	Test Assembly	1. Input	2. REST	3. JSON_Parser	4. Output
JSON Source	Document root	Validation			

Library name *

near_earth_objects

Schema definition *

urn|library|near_earth_objects

Document root *

root

Add schema to library

Hierarchical Stage

- Output: Link level mapping

Hierarch_1 - Hierarchical stage

Stage name

Hierarch_1

Stage	Output	Assembly Editor	Libraries
Administration	Test Assembly	1. Input	2. REST
		3. JSON_Parser	4. Output

Display name *

Output

View 1 error

Jump to

Properties

Output name *

Link_3

Link level mapping *

✓ top

top/JSON_Parser:result/ns0:root/root_anon_choice_0

Search (0 shown)

+ Add

🗑

Hierarchical Stage

- Success

Hierarch_1 - Hierarchical stage

Stage name

Hierarch_1

Stage

Output

Assembly Editor

Libraries

Administration

Test Assembly

1. Input

2. REST

3. JSON_Parser

4. Output

Search (12 shown)

Q

+ Add

☐		Source element	Target name	Type	Extended	Length	Scale	Key	Null
☐	✓	top/JSON_Parser:result/ns0:root/root_anon_choice_0/object	designation	VARCHAR	☐	0	0	☐	✓
☐	✓	top/JSON_Parser:result/ns0:root/root_anon_choice_0/object	discovery_date	VARCHAR	☐	0	0	☐	✓
☐	✓	top/JSON_Parser:result/ns0:root/root_anon_choice_0/object	h_mag	VARCHAR	☐	0	0	☐	✓
☐	✓	top/JSON_Parser:result/ns0:root/root_anon_choice_0/object	i_deg	VARCHAR	☐	0	0	☐	✓
☐	✓	top/JSON_Parser:result/ns0:root/root_anon_choice_0/object	moid_au	VARCHAR	☐	0	0	☐	✓
☐	✓	top/JSON_Parser:result/ns0:root/root_anon_choice_0/nullValue	nullValue	VARCHAR	☒	0	0	☐	✓

Hierarchical Stage

- Success

IBM Cloud Pak for Data

All

Search

Project: dstage1

Connections

Table definitions

Parameter sets

PARALLEL JOB

potentially_hazardous_objects

Run result: Successful. [Log](#)

```
graph LR; Hierarch_1[Hierarch_1] -- 202 rows --> Peek_2[Peek_2]
```

Excel Unstructured Stage

- Pull specific cells, rows, or columns from specific sheets

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	EMPNO	FIRSTNAME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	JOB	EDLEVEL	SEX	BIRTHDATE	SALARY	BONUS	COMM
2	000010	CHRISTINE	I	HAAAS	A00	3978	1995-01-01	PRES	18	F	1963-08-24	152750	1000	4220
3	000020	MICHAEL	L	THOMPSON	B01	3476	2003-10-10	MANAGER	18	M	1978-02-02	94250	800	3300
4	000030	SALLY	A	KWAN	C01	4738	2005-04-05	MANAGER	20	F	1971-05-11	98250	800	3060
5	000050	JOHN	B	GEYER	E01	6789	1979-08-17	MANAGER	16	M	1955-09-15	80175	800	3214
6	000060	IRVING	F	STERN	D11	6423	2003-09-14	MANAGER	16	M	1975-07-07	72250	500	2580
7	000070	EVA	D	PULASKI	D21	7831	2005-09-30	MANAGER	16	F	2003-05-26	96170	700	2893
8	000090	EILEEN	W	HENDERSON	E11	5498	2000-08-15	MANAGER	16	F	1971-05-15	89750	600	2380
9	000100	THEODORE	Q	SPENSER	E21	0972	2000-06-19	MANAGER	14	M	1980-12-18	86150	500	2092
10	000110	VINCENZO	G	LUCCHESSI	A00	3490	1988-05-16	SALESREP	19	M	1959-11-05	66500	900	3720
11	000120	SEAN		O'CONNELL	A00	2167	1993-12-05	CLERK	14	M	1972-10-18	49250	600	2340
12	000130	DELORES	M	QUINTANA	C01	4578	2001-07-28	ANALYST	16	F	1955-09-15	73800	500	1904
13	000140	HEATHER	A	NICHOLLS	C01	1793	2006-12-15	ANALYST	18	F	1976-01-19	68420	600	2274
14	000150	BRUCE		ADAMSON	D11	4510	2002-02-12	DESIGNER	16	M	1977-05-17	55280	500	2022
15	000160	ELIZABETH	R	PIANKA	D11	3782	2002-10-11	DESIGNER	17	F	1980-04-12	62250	400	1780
16	000170	MASATOSHI	J	YOSHIMURA	D11	2890	1999-09-15	DESIGNER	16	M	1981-01-05	44680	500	1974
17	000180	MARILYN	S	SCOUTTEN	D11	1682	2003-07-07	DESIGNER	17	F	1979-02-21	51340	500	1707
18	000190	JAMES	H	WALKER	D11	2986	2004-07-26	DESIGNER	16	M	1982-06-25	50450	400	1636
19	000200	DAVID		BROWN	D11	4501	2002-03-03	DESIGNER	16	M	1971-05-29	57740	600	2217
20	000210	WILLIAM	T	JONES	D11	0942	1998-04-11	DESIGNER	17	M	2003-02-23	68270	400	1462
21	000220	JENNIFER	K	LUTZ	D11	0672	1998-08-29	DESIGNER	18	F	1978-03-19	49840	600	2387
22	000230	JAMES	J	JEFFERSON	D21	2094	1996-11-21	CLERK	14	M	1980-05-30	42180	400	1774
23	000240	SALVATORE	M	MARINO	D21	3780	2004-12-05	CLERK	17	M	2002-03-31	48760	600	2301
24	000250	DANIEL	S	SMITH	D21	0961	1999-10-30	CLERK	15	M	1969-11-12	49180	400	1534
25	000260	SYBIL	P	JOHNSON	D21	8953	2005-09-11	CLERK	16	F	1976-10-05	47250	300	1380
26	000270	MARIA	L	PEREZ	D21	9001	2006-09-20	CLERK	15	F	2002-05-26	27280	500	2190

Excel Unstructured Stage

- Pull specific cells, rows, or columns from specific sheets

The screenshot displays the IBM DataOps interface for configuring a job. The top navigation bar includes tabs for Project: dstage1, Connections, Table definitions, Parameter sets, Jobs, and Job_3*. The main workspace shows a flow diagram with an 'Unstru_1' stage connected to a 'Peek_2' stage. The right-hand panel is titled 'Job_3*' and contains a sub-panel for 'Unstru_1'. This sub-panel has tabs for 'Stage', 'Excel', and 'Outputs', with 'Excel' currently selected. Within the 'Excel' tab, there are 'Source' and 'Properties' sub-tabs, with 'Source' selected. The 'File name*' field is populated with 'er/Server/Projects/dstage1/unDataIn.xlsx'. The 'Password' field is empty. A toggle switch for 'Use template file for design time' is currently turned off.

Project: dstage1 Connections Table definitions Parameter sets Jobs Job_3*

PARALLEL JOB
Job_3*

Unstru_1

Stage Excel Outputs

Source Properties

File name*

er/Server/Projects/dstage1/unDataIn.xlsx

Password

☐ Use template file for design time

Excel Unstructured Stage

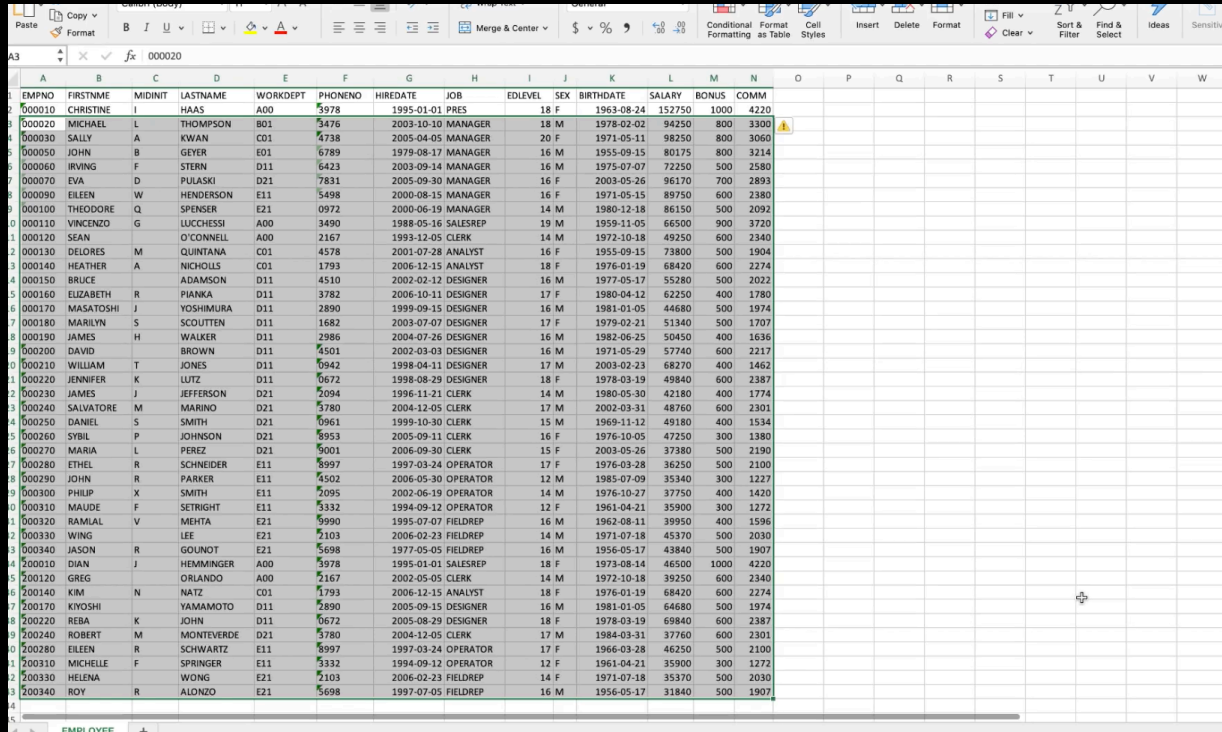
- Specifying both the beginning and ending of the subset



Stage	Excel	Outputs
Source Properties		
Link		
Link_3		
Read options		
Read option		
Specify the entire data range		
Range expression*		
EMPLOYEE!A3:N20		
Sheet names to skip		
Column header		
None		

Excel Unstructured Stage

- Pull all the data starting from a specific cell



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
	EMPNO	FIRSTNAME	MIDINIT	LASTNAME	WORKDEPT	PHONENO	HIREDATE	JOB	EDLEVEL	SEX	BIRTHDATE	SALARY	BONUS	COMM									
1	000010	CHRISTINE	I	HAAS	A00	5978	1995-01-01	PRES	18	F	1963-08-24	152750	1000	4220									
2	000020	MICHAEL	L	THOMPSON	B01	5476	2003-10-10	MANAGER	18	M	1978-02-02	94250	800	3300									
3	000030	SALLY	A	KWAN	C01	4738	2005-04-05	MANAGER	20	F	1971-05-11	98250	800	3060									
4	000050	JOHN	B	GEYER	E01	6789	1979-08-17	MANAGER	16	M	1955-09-15	80175	800	3214									
5	000060	IRVING	F	STERN	D11	6423	2003-09-14	MANAGER	16	M	1975-07-07	72250	500	2580									
6	000070	EVA	D	PULASKI	D21	7831	2005-09-30	MANAGER	16	F	2003-05-26	96170	700	2893									
7	000090	EILEEN	W	HENDERSON	E11	5498	2000-08-15	MANAGER	16	F	1971-05-15	89750	600	2380									
8	000100	THEODORE	Q	SPENSER	E21	0972	2000-06-19	MANAGER	14	M	1980-12-18	86150	500	2092									
9	000110	VINCENZO	G	LUCCHESS	A00	3490	1988-05-16	SALESREP	19	M	1959-11-05	66500	900	3720									
10	000120	SEAN		O'CONNELL	A00	2167	1993-12-05	CLERK	14	M	1972-10-18	49250	600	2340									
11	000130	DELORES	M	QUINTANA	C01	4578	2001-07-28	ANALYST	16	F	1955-09-15	73800	500	1904									
12	000140	HEATHER	A	NICHOLLS	C01	1793	2006-12-15	ANALYST	18	F	1976-01-19	68420	600	2274									
13	000150	BRUCE		ADAMSON	D11	4510	2002-02-12	DESIGNER	16	M	1977-05-17	55280	500	2022									
14	000160	ELIZABETH	R	PIANKA	D11	3782	2006-10-11	DESIGNER	17	F	1980-04-12	62250	400	1780									
15	000170	MASATOSHI	J	YOSHIMURA	D11	2890	1999-09-15	DESIGNER	16	M	1981-01-05	44680	500	1974									
16	000180	MARILYN	S	SCOUTTEN	D11	1682	2003-07-07	DESIGNER	17	F	1979-02-21	51340	500	1707									
17	000190	JAMES	H	WALKER	D11	2986	2004-07-26	DESIGNER	16	M	1982-06-25	50450	400	1636									
18	000200	DAVID		BROWN	D11	6501	2002-03-03	DESIGNER	16	M	1971-05-29	57740	600	2217									
19	000210	WILLIAM	T	JONES	D11	5942	1998-04-11	DESIGNER	17	M	2003-02-23	68270	400	1462									
20	000220	JENNIFER	K	LUTZ	D11	5672	1998-08-29	DESIGNER	18	F	1978-03-19	49840	600	2387									
21	000230	JAMES	J	JEFFERSON	D21	5094	1996-11-21	CLERK	14	M	1980-05-30	42180	400	1774									
22	000240	SALVATORE	M	MARINO	D21	5780	2004-12-05	CLERK	17	M	2002-03-31	48760	600	2301									
23	000250	DANIEL	S	SMITH	D21	5961	1999-10-30	CLERK	15	M	1969-11-12	49180	400	1534									
24	000260	SYBIL	P	JOHNSON	D21	8953	2005-09-11	CLERK	16	F	1976-10-05	47250	300	1380									
25	000270	MARIA	L	PEREZ	D21	5901	2006-09-30	CLERK	15	F	2003-05-26	37380	500	2190									
26	000280	ETHEL	R	SCHNEIDER	E11	8997	1997-03-24	OPERATOR	17	F	1976-03-28	36250	500	2100									
27	000290	JOHN	R	PAIKER	E11	6502	2006-05-30	OPERATOR	12	M	1985-07-09	35340	300	1227									
28	000300	PHILIP	X	SMITH	E11	5095	2002-06-19	OPERATOR	14	M	1976-10-27	37750	400	1420									
29	000310	MAUDE	F	SETWRIGHT	E11	5332	1994-09-12	OPERATOR	12	F	1961-04-21	35900	300	1272									
30	000320	RAMIAL	V	MEHTA	E21	5990	1995-07-07	FIELDREP	16	M	1962-08-11	39950	400	1596									
31	000330	WING		LEE	E21	5103	2006-02-23	FIELDREP	14	M	1971-07-18	45370	500	2030									
32	000340	JASON	R	GOUNOT	E21	5698	1977-05-05	FIELDREP	16	M	1956-05-17	43840	500	1907									
33	000010	DIAN	J	HEMMINGER	A00	5978	1995-01-01	SALESREP	18	F	1973-08-14	46500	1000	4220									
34	000120	GREG		ORLANDO	A00	5167	2002-05-05	CLERK	14	M	1972-10-18	39250	600	2340									
35	000140	KIM	N	NATZ	C01	1793	2006-12-15	ANALYST	18	F	1976-01-19	68420	600	2274									
36	000170	KYOSHI		YAMAMOTO	D11	2890	2005-09-15	DESIGNER	16	M	1981-01-05	44680	500	1974									
37	000220	REBA	K	JOHN	D11	5672	2005-08-29	DESIGNER	18	F	1978-03-19	68840	600	2387									
38	000240	ROBERT	M	MONTVERDE	D21	5780	2004-12-05	CLERK	17	M	1984-03-31	37760	600	2301									
39	000280	EILEEN	R	SCHWARTZ	E11	8997	1997-03-24	OPERATOR	17	F	1966-03-28	46250	500	2100									
40	000310	MICHELLE	F	SPRINGER	E11	5332	1994-09-12	OPERATOR	12	F	1961-04-21	35900	300	1272									
41	000330	HELENA		WONG	E21	5103	2006-02-23	FIELDREP	14	F	1971-07-18	35370	500	2030									
42	000340	ROY	R	ALONZO	E21	5698	1997-07-05	FIELDREP	16	M	1956-05-17	31840	500	1907									

Excel Unstructured Stage

- Specifying just the start



Stage	Excel	Outputs
Source Properties Link Link_3 Read options Read option Specify the start row ✓ Specify the entire data range Range expression* EMPLOYEE!A3:N20		

Dynamic Configuration Files

- Default static file

Configurations for transform services

Configuration

default



```
{
  node "node1"
  {
    fastname "is-en-conductor-0.en-cond"
    pools ""
    resource disk "/opt/IBM/InformationServer/Server/Datasets" {pools
    resource scratchdisk "/opt/IBM/InformationServer/Server/Scratch" {
  }
  node "node2"
  {
    fastname "is-en-conductor-0.en-cond"
    pools ""
    resource disk "/opt/IBM/InformationServer/Server/Datasets" {pools
    resource scratchdisk "/opt/IBM/InformationServer/Server/Scratch" {
  }
}
```

Dynamic Configuration Files

- Provide a dynamic config file

Configurations for transform services

Configuration

<New>



```
{
  node "node1"
  {
    fastname "is-en-conductor-0.en-conduct"
    pools "conductor"
    resource disk "/opt/IBM/InformationServer/Server/Datasets" {pools ""}
    resource scratchdisk "/opt/IBM/InformationServer/Server/Scratch" {pools ""}
  }
  node "node2"
  {
    fastname "$dspod"
    pools ""
    resource disk "/opt/IBM/InformationServer/Server/Datasets" {pools ""}
    resource scratchdisk "/opt/IBM/InformationServer/Server/Scratch" {pools ""}
    instances 2
  }
}
```

Dynamic Configuration Files

- Tell the job to use the dynamic config file

×

Add Parameter

Type

Environment variable

Parameter name*

Configuration file (\$APT_CONFIG_FILE) ⓘ

Default value

1/InformationServer/Server/Configurations/dynamic

Prompt

Configuration file

Help text

The Parallel job configuration file.

Cancel

OK

Dynamic Configuration Files

- Run the job and check the log

Run log

10/29/2020 23:49:27	Info	main_program: orchgeneral: loaded orchsort: loaded orchstats: loaded
10/29/2020 23:49:28	Info	main_program: APT configuration file: /opt/IBM/InformationServer/Server/Configurations/dynamic.apt { node "node1" { fastname "is-en-conductor-0.en-cond" pools "conductor" resource disk "/opt/IBM/InformationServer/Server/Datasets" {pools ""} resource scratchdisk "/opt/IBM/InformationServer/Server/Scratch" {pools ""} } node "node2" { fastname "\$dspod" pools "" resource disk "/opt/IBM/InformationServer/Server/Datasets" {pools ""} resource scratchdisk "/opt/IBM/InformationServer/Server/Scratch" {pools ""} instances 2 } }
10/29/2020 23:49:28	Info	RowGen_1,0: APT_PMPlayer: new Player running, PID = 26,322, spawned from Section Leader, PID = 26,321 host name = ds-engine-compute-1
10/29/2020 23:49:28	Info	Peek_2,1: APT_PMPlayer: new Player running, PID = 26,348, spawned from Section Leader, PID = 26,347 host name = ds-engine-compute-0
10/29/2020 23:49:28	Info	Peek_2,0: APT_PMPlayer: new Player running, PID = 26,323, spawned from Section Leader, PID = 26,321 host name = ds-engine-compute-1

Questions

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