

## Switch IN DATASTAGE

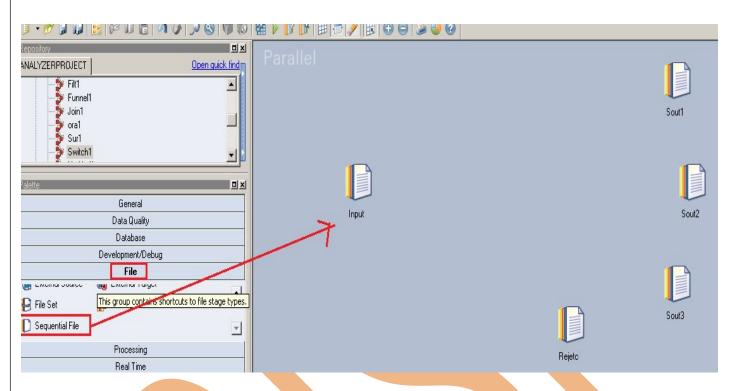
Step-1 :- In Windows Click Designer Client of DataStage

My Computer	Mozilla Firefox			
🧊 Recycle Bin	Security Configurati			
Internet Explorer	Web Console for IBM In			
Administrator Client	Firefox Setup 16.0.2.exe			
Console for IBM Info	SQL Developer			
Designer <mark>- Loca</mark>	n: C:\IBM\InformationServer\Clients\Classic	]		
Director Client				_

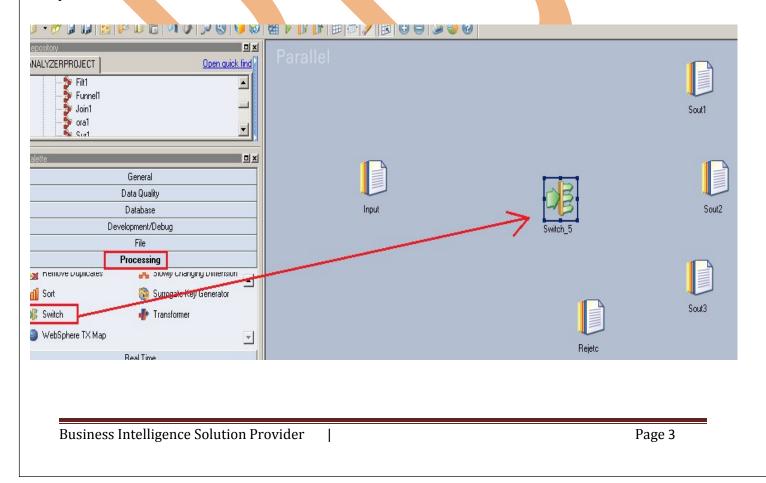
**Step-2** :- New Window open than click Jobs than click Parallel because we use parallel jobs.

🏹 WebSphere DataStage Designer - MITE	SHA\ANALYZERPROJECT
WebSphere DataStage and QualityS	tage Designer
Eile View Repository Import Export Ic	ols <u>H</u> elp
🔋 • 🧭 🖬 🕼 🖪 🎯 ն 🛱 🗸	
Repository  ANALYZERF Open quick find	
ANALYZERPROJECT	Most Recent Data Quality Constructions Construct
Palette 🛛 🖾	
This group is initially empty and is intended to contain shortcuts to commonly used repository items. Shortcuts can be created by dragging items from the Repository Tree or by using the Customize	Jobs
option from the menu.	OK Cancel Help
Business Intelligence Solution Pr	ovider Page 2

**Step-3 :-** First go on File Pallete than scroll the cursor and choose Sequential File and drag them to Parallel Job and rename all of them



**Step-4 :-** Choose Switch processing method from Processing Pallete and scroll them and now connect them all by link.



**Step-5** :- For making connection between them choose Link from General Pallete and drag and drop from source to destination.

Open quick find	Parallel	DSLink7	DSLink8 DSLink1 Switch 5 DSLink1	k9 Sout2
Data Quality Database	source to destination.			*
/elopment/Debug				Sout3
File				
Processing			Rejetc	

**Step-6**: Doucle Click on Sequential File than choose file as Input file for Switching and go for browsing and select and input file like this.

Parallel	Input - Sequential File         Stage       Output         Output name:       DSLink7         General       Properties         Format       Columns         Advanced	Columns
Input	Source Source File = C:\switch\Input22.txt Read Method = Specific File(s) Options First Line is Column Names = False Keep File Partitions = False Missing File Mode = Depends Reject Mode = Continue Report Progress = Yes	File: C:\switch\Input22.txt Information: Type: Pathname Name of a file that data will be read from. Available properties to add:
		OK Cancel Help

I

Step-7:- This is input file where we want to apply switching on this.

🚺 Input22.txt - Notepad File Edit Format View Help empno,ename,job,mgr,sal,comm,deptno 7411, SMITH, CLERK, 7902, 1800, 300, 20 7499, ALLEN, SALESMAN, 7698, 1600, 300, 30 7521, WARD, SALESMAN, 7698, 1250, 500, 30 7566, JONES, MANAGER, 7839, 2975, 0, 20 7654, MARTIN, SALESMAN, 7698, 1250, 1400, 30 7698, BLAKE, MANAGER, 7839, 2850, 0, 30 7782, CLARK, MANAGER, 7839, 2450, 0, 10 7788, SCOTT, ANALYST, 7566, 3000, 0, 20 7839, KING, PRESIDENT, NULL, 5000, 0, 10 7844, TURNER, SALESMAN, 7698, 1500, 0, 30 7876, ADAMS, CLERK, 7788, 1100, 0, 20 7900, JAMES, CLERK, 7698, 950, 0, 30 7902, FORD, ANALYST, 7566, 3000, 0, 20 7934, MILLER, CLERK, 7782, 1300, 0, 10 **Step-8**:- Now click on True because we don't want to include first column from input file. Input - Sequential File \_ 🗆 X Stage Output Output name: DSLink7 -Columns... General Properties Format Columns Advanced First Line is Column Names: E Cource 否 File = C:\switch\Input22.txt False 合 False Read Method = Specific File(s) True 🖻 🔁 Options 4 Type: List First Line is Column Names = False If set true, the first line of a file contains Keep File Partitions = False 훞 column names on writing and is ignored on - 💊 Missing File Mode = Depends reading. Reject Mode = Continue \* Report Progress = Yes Available properties to add: 0K Cancel Help

**Step-9 :-** Now click on format than remove double quote because we use comma.

put name: DSLink7 📃	Colu <u>m</u> ns ⊻iew Data
eneral   <u>P</u> roperties <mark>Fo<u>r</u>mat   <u>C</u>olumns   Ad<u>v</u>ar roperties:</mark>	oced   Quote
P- 🔁 Record level 🖉	double
Delimiter = comma     Outre - clouble     Type defa     Gener     Gener     String     Decim     Decim     Remove     Remove all     Type defa	or double quotes, another character or pair of characters; or explicitly not quoted.         Available properties to add:
	Load Defaults

**Step-10:-** Select Column and make same column as declare on Input file and put datatype,length than click on ViewData this will show you is your Input file is match with your current column format.

	t name: DSLink7 eral <u>P</u> roperties Fi	ormat		nced	C	olu <u>m</u> ns.		⊻iew Data
	Column name	Kev	SQL type	Extended	Lenath	Scale	Nullable	Description
I	empno		Integer		4		No	
I	ename		VarChar		10		No	
I	job		VarChar		10		No	
I	mgr		Integer		4		No	
I	sal		Integer		4		No	
I	comm		Integer		4		No	
I	deptno		Integer		2		No	
							<u>S</u> ave	▶ Load

**Step-11:-** After Cliking on ViewData than this show you your Input contents if this valid than show this otherwise show error this is Valid columns show click on close.

empno	ename	job	mgr	sal	comm	Colu	mns	<u>V</u> iew Data
7411	SMITH	CLERK	7902	1800	300			-
7499	ALLEN	SALESMAN	7698	1600	300			
7521	WARD	SALESMAN	7698	1250	500	ngth S	cale Nullable	Description
7566	JONES	MANAGER	7839	2975	0	4	No	Description
7654	MARTIN	SALESMAN	7698	1250	1400 ද	10	No	
7698	BLAKE	MANAGER	7839	2850	0	10	No	
7782	CLARK	MANAGER	7839	2450	0	4	No	
7788	SCOTT	ANALYST	7566	3000	0	4	No	
7844	TURNER	SALESMAN	7698	1500	0	4	No	
7876	ADAMS	CLERK	7788	1100	0	2	No	
7900	JAMES	CLERK	7698	950	0			
7902	FORD	ANALYST	7566	3000	0			
7934	MILLER	CLERK	7782	1300	0			
								Þ
							10 26	1
							<u>S</u> ave	Load

**Step-12:-** Now click in Switch and select in which column you want to perform operation and than select these particular column.

	Switch_5 - Switch Stage Input Output	
Switch 5	Stage name: Switch_5  General Properties Advanced Link Ordering NLS Loc  Selector = sal  Selector Mode = User-defined Map  Case = ?  Coptions  If Not Found = Fail	ale Selector: Selector: Comm deptno ename job mgr sal Available properties to add: Case Sensitive
		OK Cancel <u>H</u> elp
Business	Intelligence Solution Provider	Page 7

**Step-13 :-** Now see we have to perform some case statement that means we going to apply some condition's regarding selector values.

🐝 Switch_5 - Switch	
Stage Input Output	
Stage name: Switch_5	
<u>G</u> eneral Properties Advanced Link Ordering NLS Locale	
[No property selected]	
Selector = sal	
Selector Mode = User-defined Map	
🚱 Case = ?	
⊡ ⊖ Options ↓ If Not Found = Fail	
	<b>T</b>
Available properties to ac	td:
Case	
OK	Cancel <u>H</u> elp
	111

**Step-14:-** We apply three case and 0,1,2 are the label of output link this is must to put because we have to specify in which output file you want to send the output data.

Stage name: Switch_63	Output Links this is mendatory to put label
General Properties Advanced Link Ordering	NLS Locale
□ Color Input Selector = sal	Case:
Selector Mode = User-defined Map	Information:
Case = 1800=0 Case = 1600=1 Case = 3000=2 Options If Not Found = Output	
	OK Cancel Help

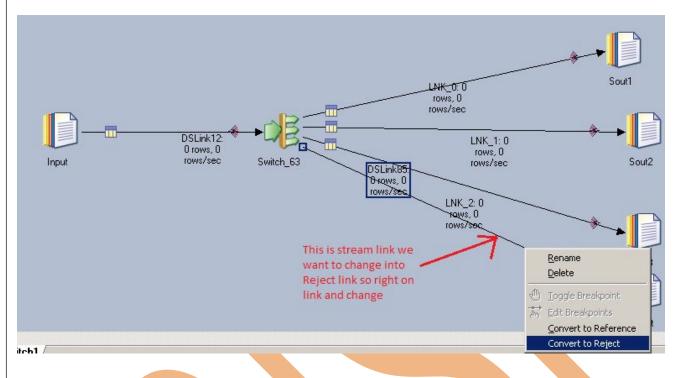
Step-15:- Now if you confuse how to get label name so goto link ordering and check your ordering.

Switch_63 - Switch	
Stage ] Input   Qutput ]	
Stage name: Switch_63	
General Properties Advanced Link Ordering NLS Locale	
Order the following input links:     Order the following output       Link label     Link label       Link label     Link	k name
	K_1
Primary DSLink12	K_2
<u>₹</u>	K_0 K_1 K_2 Link85
	-
	Course 1 House
	Cancel <u>H</u> elp
<b>0-16:-</b> Now click Input tab then check all input column are availabl	e or not.
<b>p-16:-</b> Now click Input tab then check all input column are available <b>witch_63 - Switch</b> tage Input Output	
p-16:- Now click Input tab then check all input column are available witch_63 - Switch tage Input Output nput name: DSLink12 Columns	
p-16:- Now click Input tab then check all input column are available witch_63 - Switch tage Input Output nput name: DSLink12 Columns General Partitioning Columns Advanced	
D-16:- Now click Input tab then check all input column are available Switch_63 - Switch tage Input Output Oput name: DSLink12 Columns General Partitioning Columns Advanced Partitioning / Collecting Sorting	
D-16:- Now click Input tab then check all input column are available witch_63 - Switch tage Input Qutput put name: DSLink12 Columns General Partitioning Collecting Partitioning / Collecting Partition type:	 
D-16:- Now click Input tab then check all input column are available Switch_63 - Switch tage Input Output Dutput Dutput Definition ing Columns Advanced Partitioning / Collecting Partition type:	
b-16:- Now click Input tab then check all input column are available   Switch_63 - Switch   tage [Input]   uput name: DSLink12   DSLink12   Columns:   General Partitioning Columns Advanced   Partition type:   [Auto]   Sorting   Partition type:   [Auto]   Selected:	itable Inique
b-16:- Now click Input tab then check all input column are available   Switch_63 - Switch   tage [Input]   Dutput]   nput name: DSLink12   DSLink12   Columns   General Partitioning Columns Advanced   Partition type:   [Auto]   Sorting   Partition type:   [Auto]   Selected:   Key	jtable Inique
b-16:- Now click Input tab then check all input column are available   Switch_63 - Switch   tage [Input]   uput name: DSLink12   DSLink12   Columns:   General Partitioning Columns Advanced   Partition type:   [Auto]   Sorting   Partition type:   [Auto]   Selected:	jtable Inique
b-16:- Now click Input tab then check all input column are available   Switch_63 - Switch   tage [Input]   tage [Input]   Dutput]   nput name:   DSLink12   Columns   General Partitioning Columns Advanced   Partition type:   [Auto]   Available:   Selected:   Key	jtable Inique
o-16:- Now click Input tab then check all input column are available   witch_63 - Switch   tage [nput] Output]   nput name: DSLink12   DSLink12   Columns   General Partitioning Columns Advanced   Partition type:   [Auto]   Available:   Selected:   Key	jtable Inique
o-16:- Now click Input tab then check all input column are available   witch_63 - Switch   tage [nput] Output]   nput name: DSLink12   DSLink12   Columns   General Partitioning Columns Advanced   Partition type:   [Auto]   Available:   Selected:   Key	itable Inique
b-16:- Now click Input tab then check all input column are available   witch_63 - Switch   tage [nput] Dutput   nput name: DSLink12   DSLink12   Columns   General Partitioning Columns Advanced   Partition type:   [Auto]   Available:   Comm   deptno   ename   job	jtable Inique
b-16:- Now click Input tab then check all input column are available   Switch_63 - Switch   tage [nput] Dutput   nput name: DSLink12   Columns   General Partitioning Columns Advanced   Partitioning / Collecting   Partition type:   [Auto]   Available:   Selected:   Key	jtable Inique

**Step-17:-**Now Click on output link than drag them all to the output link.

10000000							
eneral	Mapping Colum	ns Ad <u>v</u> anc	ed				
							2
	Column	s			LNK_	0	
	xpression	Column	N		Derivation	Column	Name
D	SLink12.empno	empno			DSLink12.empno	empno	
D	SLink12.ename	ename			_ DSLink12.ename	ename	
D	SLink12.job	job			– DSLink12.job	job	
	SLink12.mgr	mgr			<ul> <li>DSLink12.mgr</li> </ul>	mgr	
D	SLink12.sal	sal			_ DSLink12.sal	sal	
	SLink12.comm	comm			DSLink12.comm	comm	
D	SLink12.deptno	deptno	_		DSLink12.deptno	deptno	-
	Drag them all						
	this is output	link					
1						- 14275 - 20	•
						<u> </u>	<u>A</u> uto-Match
						-	
					OK	Cance	l <u>H</u> elp
			_				
	63 - Switch	rocess in	all the lin	nks are ava	ailable drag them all t	to the output	t link.
vitch_ ge   lı	63 - Switch	rocess in	all the lin	nks are ava			
vitch_ ge   lı	63 - Switch nput Qutput	rocess in	all the lin	nks are ava		o the output	
vitch_ ge   lı	63 - Switch npututput   me: LNK_1 LNK_0 NK_1	rocess in	all the lin	nks are ava			
vitch_ ge   [i tput na	63 - Switch npututput   me: LNK_1 LNK_0 LNK_1 LNK_2	rocess in	all the lin	nks are ava			
vitch_ ge   [i tput na	63 - Switch npututput me: LNK_1 LNK_0 LNK_1 LNK_2 LNK_5		all the lin	nks are ava		olu <u>m</u> ns	
vitch_ ge   [i tput na	63 - Switch nputDutput me: LNK_1 LNK_0 LNK_1 LNK_2 DSLink85	olumns					
vitch_ ge ] ]r tput na eneral	63 - Switch nput Qutput me: LNK_1 LNK_0 MLNK_1 LNK_2 DSLink85 C Expression	olumns	Column Na		Co	olu <u>m</u> ns	Column Na
vitch ge   lı tput na eneral	63 - Switch hput Qutput me: LNK_1 LNK_0 M LNK 1 LNK_2 DSLink85 C Expression DSLink12.empno	olumns	Column Na empno		Derivation DSLink12.empn	olu <u>m</u> ns	Column National
vitch_ ge   ] tput na eneral	63 - Switch hput Qutput me: LNK_1 LNK_0 MLNK 1 LNK_2 DSLink85 C Expression DSLink12.empno DSLink12.emame	Columns	Column Na empno ename		Derivation DSLink12.empn DSLink12.empn	olu <u>m</u> ns	Column Nar empno ename
vitch_ ge   lı tput na eneral	63 - Switch npututput me: LNK_1 LNK_1 LNK_1 LNK_2 LNK_2 LNK_5 LNK_5 LNK_2 L	olumns	Column Na empno ename job		Derivation DSLink12.empn DSLink12.enam DSLink12.job	olu <u>m</u> ns	Column National empno ename job
vitch_ ge   lı tput na eneral	63 - Switch npututput me: LNK_1 LNK_1 LNK_1 LNK_2 L	olumns	Column Na empno ename job mgr		Derivation DSLink12.enam DSLink12.iob DSLink12.ingr	olu <u>m</u> ns	Column Nat empno ename job mgr
vitch_ ge   ]r tput na eneral	63 - Switch hput Qutput me: LNK_1 LNK_0 M LNK 1 LNK_2 DSLink85 C Expression DSLink12.ename DSLink12.iob DSLink12.mgr DSLink12.mgr	olumns	Column Na empno ename job mgr sal		Derivation DSLink12.empro DSLink12.ipb DSLink12.mgr DSLink12.sal	olu <u>m</u> ns	Column Nat empno ename job mgr sal
vitch_ ge ] lı tput na eneral	63 - Switch  hput Qutput  me: LNK_1 LNK_0 MINK_1 LNK_2 DSLink85  C Expression DSLink12.empno DSLink12.ename DSLink12.iob DSLink12.sal DSLink12.sal DSLink12.comm	Columns	Column Na empno ename job mgr sal comm		Derivation DSLink12.empro DSLink12.enamo DSLink12.job DSLink12.rogr DSLink12.sal DSLink12.comm	blu <u>m</u> ns	Column Nar empno ename job mgr sal comm
vitch_ ge ] lı tput na eneral	63 - Switch hput Qutput me: LNK_1 LNK_0 M LNK 1 LNK_2 DSLink85 C Expression DSLink12.ename DSLink12.iob DSLink12.mgr DSLink12.mgr	Columns	Column Na empno ename job mgr sal		Derivation DSLink12.empro DSLink12.ipb DSLink12.mgr DSLink12.sal	blu <u>m</u> ns	Column Nat empno ename job mgr sal
vitch_ ge ] lı tput na eneral	63 - Switch  hput Qutput  me: LNK_1 LNK_0 MINK_1 LNK_2 DSLink85  C Expression DSLink12.empno DSLink12.ename DSLink12.iob DSLink12.sal DSLink12.sal DSLink12.comm	Columns	Column Na empno ename job mgr sal comm		Derivation DSLink12.empro DSLink12.enamo DSLink12.job DSLink12.rogr DSLink12.sal DSLink12.comm	blu <u>m</u> ns	Column Nar empno ename job mgr sal comm
vitch_ ge ] lı tput na eneral	63 - Switch  hput Qutput  me: LNK_1 LNK_0 MINK_1 LNK_2 DSLink85  C Expression DSLink12.empno DSLink12.ename DSLink12.iob DSLink12.sal DSLink12.sal DSLink12.comm	Columns	Column Na empno ename job mgr sal comm		Derivation DSLink12.empro DSLink12.enamo DSLink12.job DSLink12.rogr DSLink12.sal DSLink12.comm	blu <u>m</u> ns	Column Nat empno ename job mgr sal comm deptno
vitch_ ge ] lı tput na eneral	63 - Switch  hput Qutput  me: LNK_1 LNK_0 MINK_1 LNK_2 DSLink85  C Expression DSLink12.empno DSLink12.ename DSLink12.iob DSLink12.sal DSLink12.sal DSLink12.comm	Columns	Column Na empno ename job mgr sal comm		Derivation DSLink12.empro DSLink12.enamo DSLink12.job DSLink12.rogr DSLink12.sal DSLink12.comm	Dlu <u>m</u> ns	Column Nai empno ename job mgr sal comm deptno
vitch_ ge ] lı tput na eneral	63 - Switch  hput Qutput  me: LNK_1 LNK_0 MINK_1 LNK_2 DSLink85  C Expression DSLink12.empno DSLink12.ename DSLink12.iob DSLink12.sal DSLink12.sal DSLink12.comm	Columns	Column Na empno ename job mgr sal comm		Derivation DSLink12.empro DSLink12.enamo DSLink12.job DSLink12.rogr DSLink12.sal DSLink12.comm	blu <u>m</u> ns	Column Nat empno ename job mgr sal comm deptno

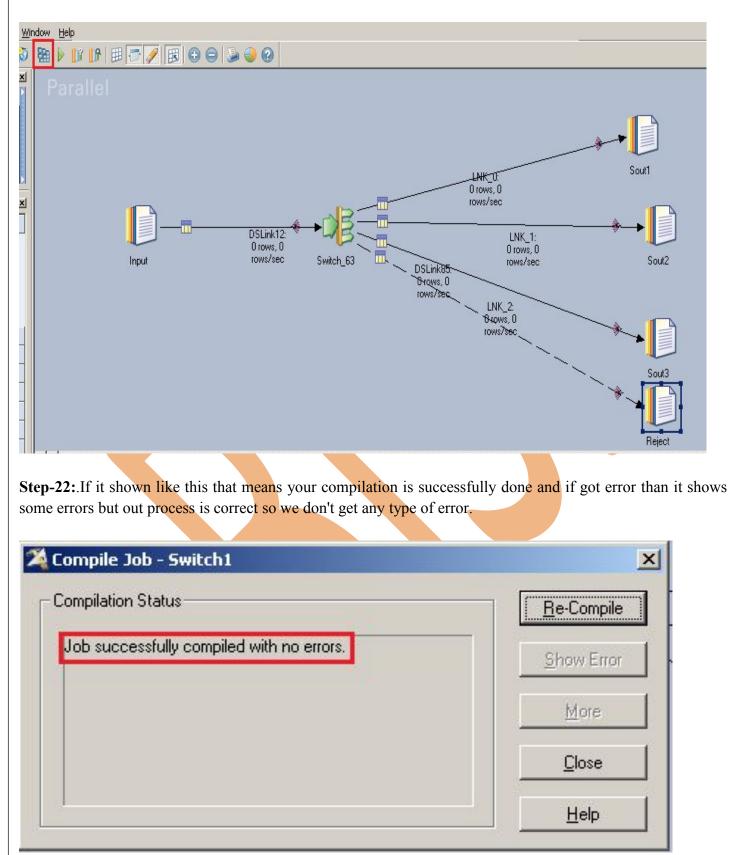
**Step-19:** This is inportant that convert the stream link into rejected link because we want to send rejected data into specific file.



Step-20:- Now click on output file and choose path or output file and apply same process in all output file.

Sout1 - Sequential File		×
Stage Input		
Input name: LNK_0	File: C:\sout1.txt Information: Type: Pathname Name of a file that the incoming data will be written to.	Switch to multiline editor Insert job parameter Browse for file Sout2
	Available properties to add:	Sout3
		Reject

Ι



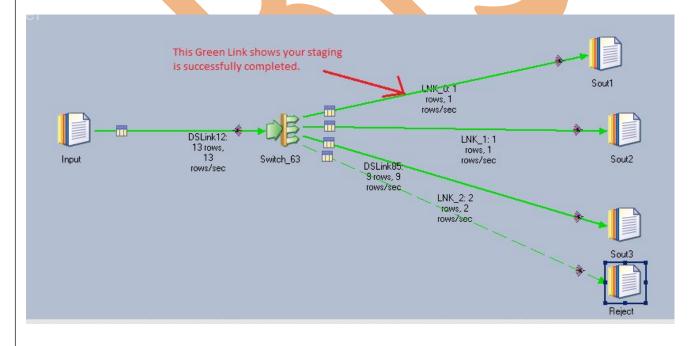
**Step-21:-** It look like this and after put the path for output file than click on compile button for compilation.

Business Intelligence Solution Provider

**Step-23:-** After click on run wait for a while than it shows GREEN line that means your tranformation is successfully otherwise if it shows RED Line that means not Done and BLUE Line means Under Process

Parallel				
Switch1 - Job Run Options				<u> </u>
Limits General				
Rows		arnings		
💿 <u>N</u> o limit		' <u>No</u> limit		
C Stop stages after:	0	Abort job after:		
Rows: 1		Warnings:	50 ×	
	Run <u>V</u>	alidate Ca	ncel	Help

**Step-24:-** After click on run wait for a while than it shows GREEN line that means your tranformation is successfully otherwise if it shows RED Line that means not Done and BLUE Line means Under Process



Ι

**Step-25:-** This is output files and rejected files.

) sout1.txt - Notepad	_ 🗆 X	📙 sout2.txt - Notepad	_OX
ile Edit Format View Help '7411", "SMITH", "CLERK", "7902", "1800", "300", "20"		Elle Edit Format Yiew Help "7499", "ALLEN", "SALESMAN", "7698", "1600", "300", "30	)"
	Y		<b>v</b>
sout3.txt - Notepad File Edit Format View Help		RejSwit.txt - Notepad	
"7788", "SCOTT", "ANALYST", "7566", "3000", "0", "20" "7902", "FORD", "ANALYST", "7566", "3000", "0", "20"	<b>A</b>	Elle Edit Format View Help SAL "7521", "WARD", "SALESMAN", "7698", "1250", "500", "30"	• •
"/902", "FORD", "ANALYST", "/566", <mark>"3000", "</mark> 0", "20"		Image: Construct of the construction         SAL           "7521", "WARD", "SALESMAN", "7698", "1250", "500", "30"           "7566", "JONES", "MANAGER", "7839", "2975", "0", "20"           "7654", "MARTIN", "SALESMAN", "7698", "1250", "1400","           "7698", "BLAKE", "MANAGER", "7839", "2850", "0", "30"           "7782", "CLARK", "MANAGER", "7839", "2450", "0", "30"           "77844", "TURNER", "SALESMAN", "7698", "1500", "0", "30"           "7876", "ADAMS", "CLERK", "7788", "1100", "0", "20"           "7900", "JAMES", "CLERK", "7698", "950", "0", "30"           "7934", "MILLER", "CLERK", "7782", "1300", "0", "10"	'30"
		"7698", "BLAKE", "MANAGER", "7839", "2850", "0", "30"	
(		"7824", "TURNER", "SALESMAN", "7698", "1500", "0", "30"	
		"7900","JAMES","CLERK","7698","950","0","30"	
		"7934","MILLER","CLERK","7782","1300","0","10"	-
		I	
Business Intelligence Solution Provider		Page 14	