

Automating Modernization

Configuration based automation of legacy tech to the Databricks Lake House



Jared Hillam GTM VP, BladeBridge



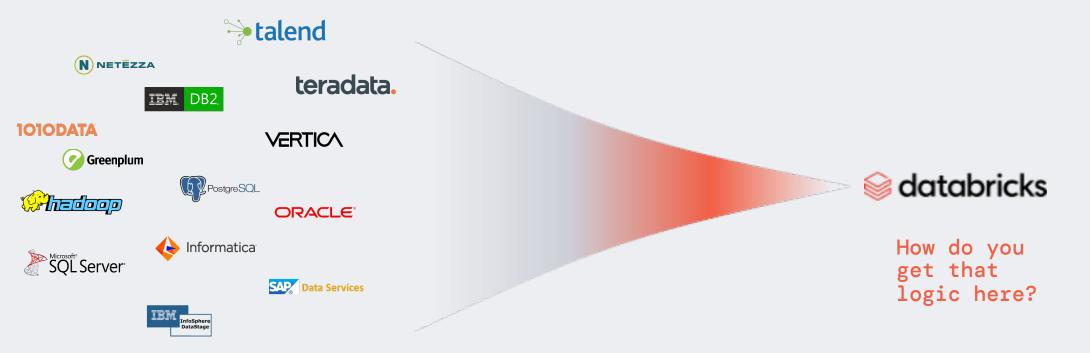
Simon Eligulashvili

CoFounder, BladeBridge

The Problem

The logic is locked in runtime systems

What makes data management solutuions sticky is that organizations have spent decades building logic on top of them. Each has bespoke metadata, code, functions, workflows, and functionalities that are locked into their world.



Failed Approaches

This problem has been hard to solve

Consulting as a Product

- No market scale
- Over the wall conversion
- Give up your metadata!
- Limited Sources/Targets

One Hit Wonders

- Singular technology
- Get stuck easily
- Not configurable enough

Consulting Army

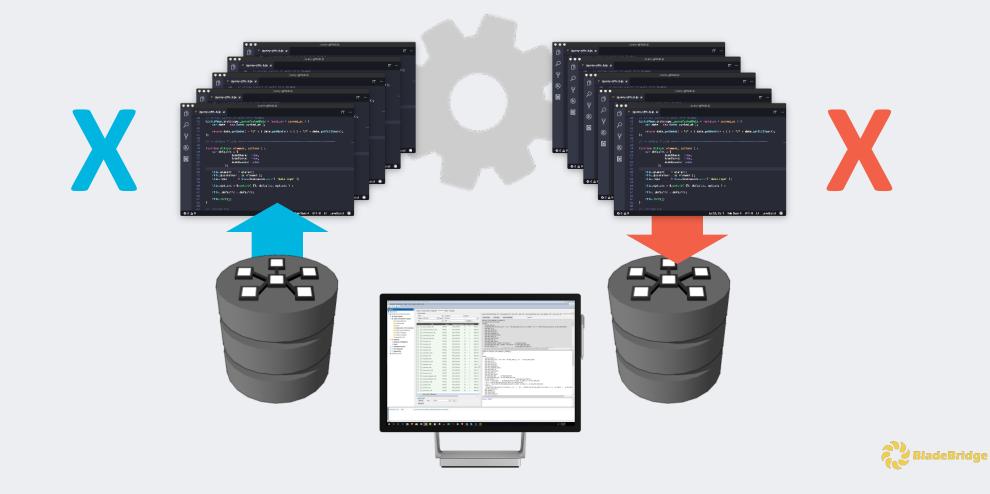
- Sharded patterns
- Lost custody of logic
- People not consistent
- Lots of rework
- Not scalable





What is BladeBridge Converter?

Software designed for migrating code and metadata focused on data management technologies

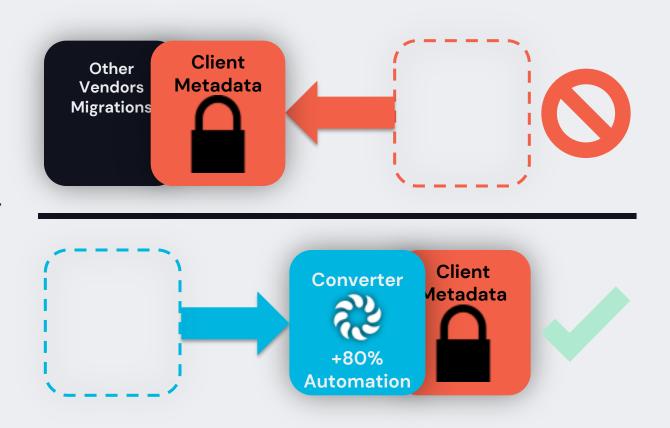




What makes BladeBridge different?

BladeBridge Converter is SOFTWARE

Because BladeBridge is software it can be used locally by the clients. Thus users don't have to upload their metadata to a 3rd party or service. **So, we take the tool to the code and not the code to the tool.**







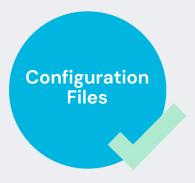
What makes BladeBridge different?

BladeBridge Converter is configuration based

Black Box



Configurable



BladeBridge Converter is a code conversion engine with **externalized configuration files** which both clients and system integrators can manipulate and adapt.



Robust Community

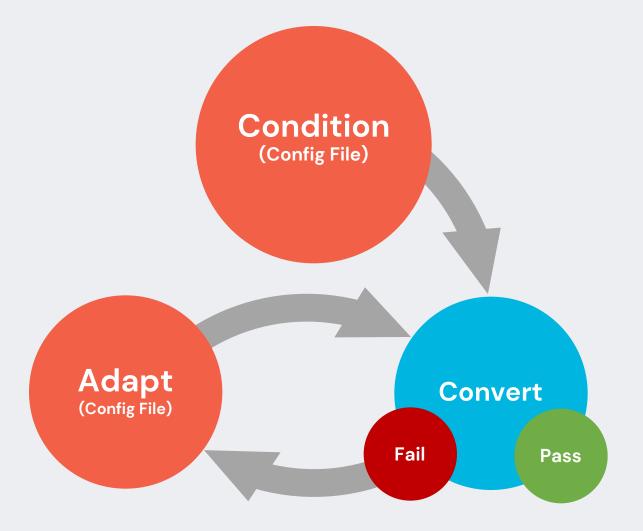
BladeBridge System Integrator Partners





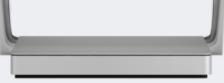


Converter Process: High Level



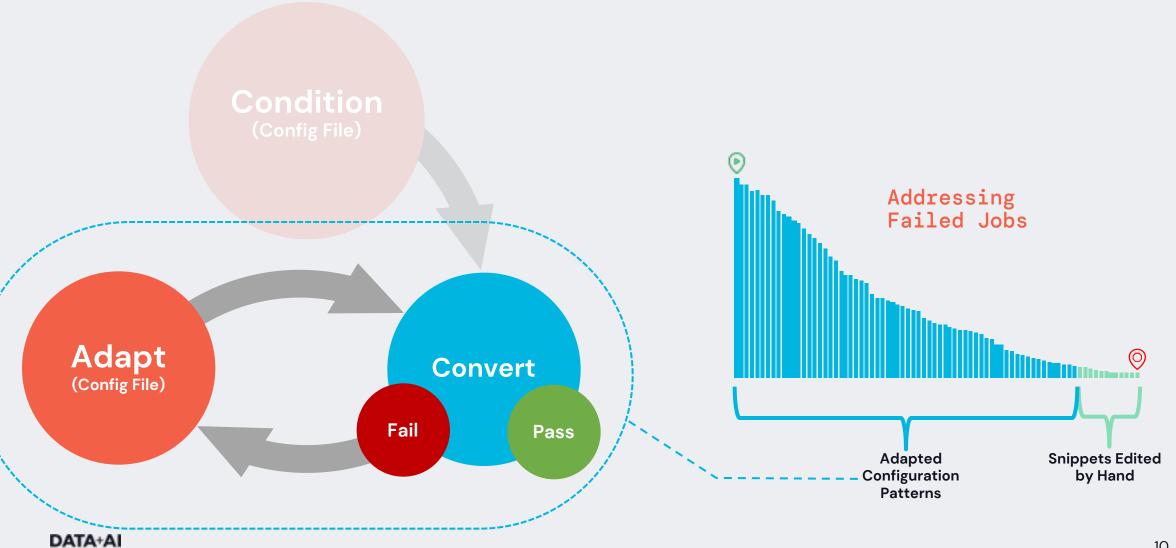
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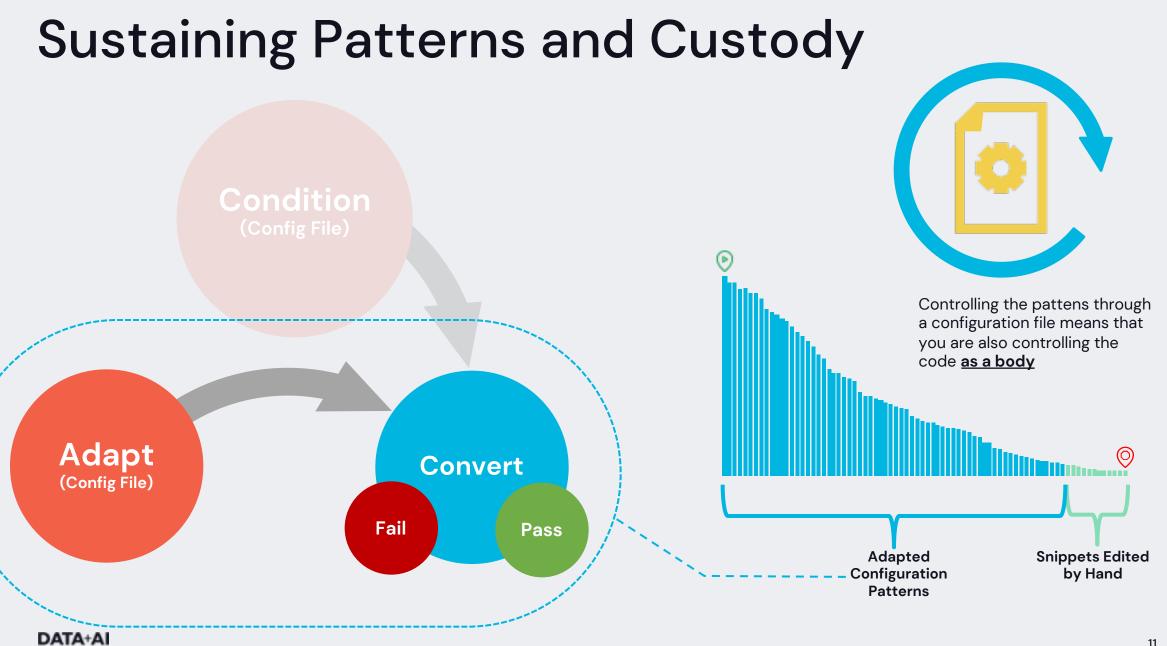
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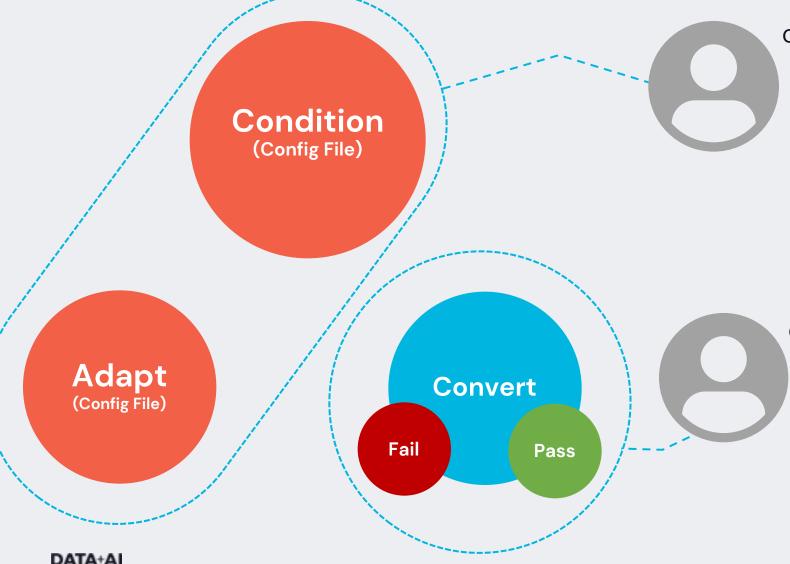


Converter Adaptation Priority





Core Skills Required



Conversion Architect

This resource will oversee creating and modifying patterns for the conversion project. These patterns are programed into the BladeBridge configuration files. Critical skillsets include

- Regular Expressions
- Source Metadata Knowledge
- Target Metadata Knowledge
- System Architecture Experience
- Identification and development of patterns
- Nice to have: Programming language like Python or Perl

Conversion Specialist

This resource will be executing the converter, testing the output metadata, logging the results, identifying errored patterns for the architects, conducting assessments on fixes, and suggesting patterns to Architects to configure

- Source Technology Knowledge
- Target Technology Knowledge
- Ability to debug and trace and understand error messages
- Issue resolution skills
- Identifying patterns

Configuration & Execution



Configuration Files

Loosely coupled configuration files drive BladeBridge

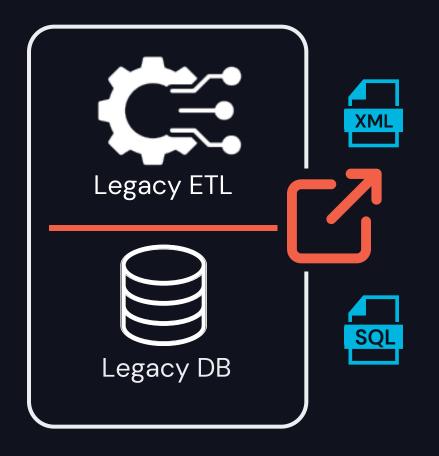






BladeBridge's Code Source

Preparing for a conversion



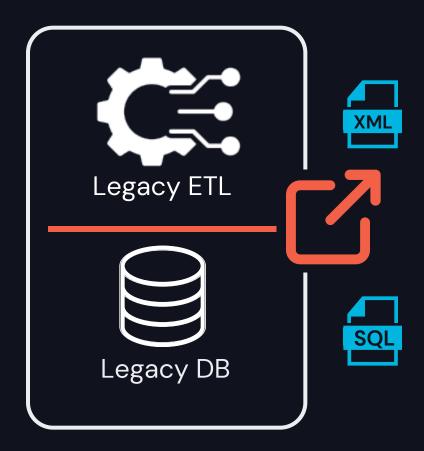
Customer or System Integrator needs to first acquire the metadata or code

- In the case of an ETL tool, it will typically be a metadata extract.
- In the case of a database, it will typically be SQL files
- In other cases, we need a representative code base of commands

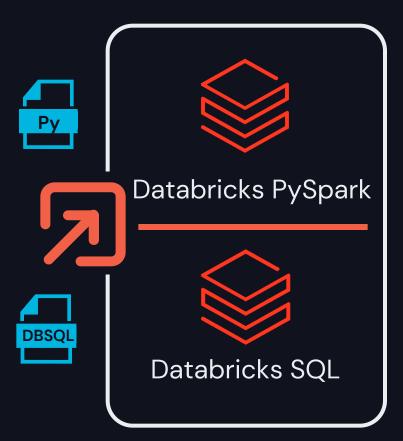


Databricks target

Target languages within Databricks



Databricks syntaxes provide entry via PySpark, DBSQL, Spark Scala, and others, but for traditional ETL and SQL syntaxes both PySpark and DBSQL are strong targets

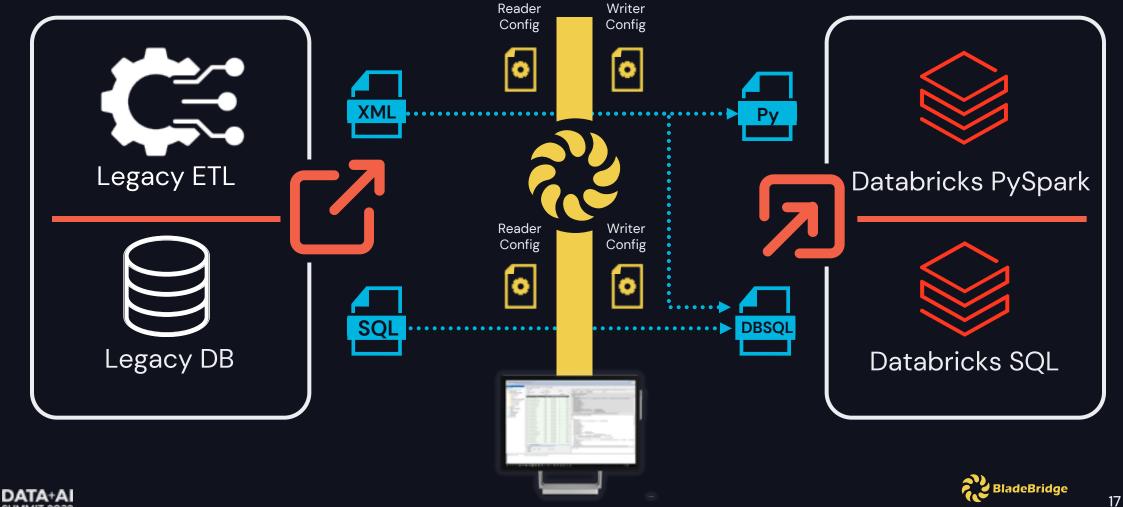




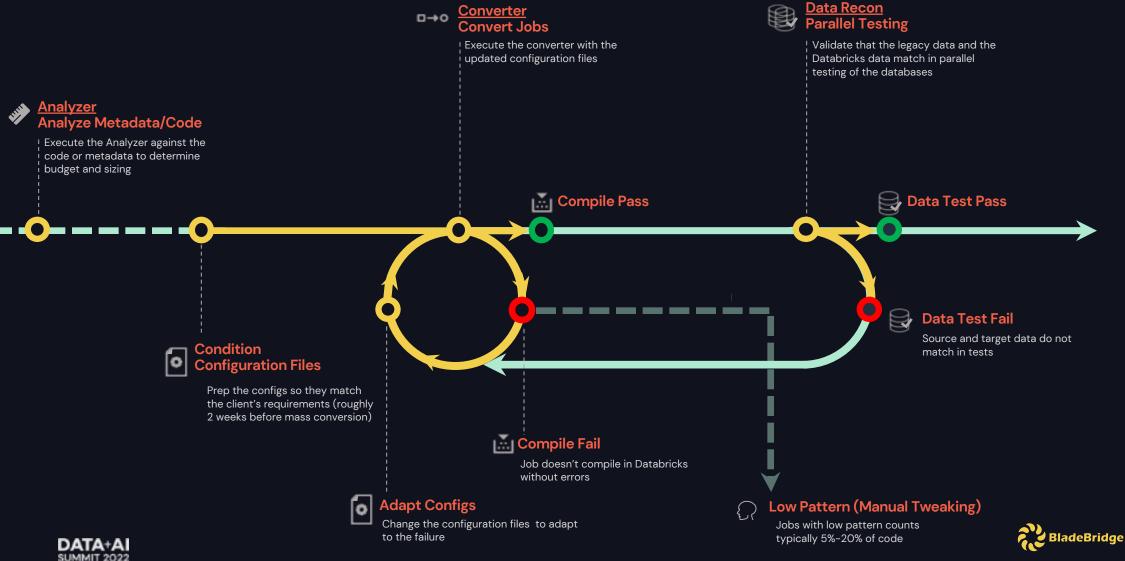


Bridging Legacy to Databricks

Iterate with the config files



Converter Process: Detailed



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Configurations



Teradata

CREATE OR REPLACE PROCEDURE P200
IN PARM1 CHAR(2) CHARACTER SET LATIN, IN PARM2 INTEGER
BEGIN
DECLARE var1 char default 'proc200'; declare var2 integer;
CREATE or replace SET TABLE TBL01 (FNAME varchar(100), lname varchar(100), dob date, start_dt date, end_dt date, id integer, del_flag char(2) -) ;
<pre>insert into tbl01 values ('Sally', 'Smith', '1991-01-01', '2001-05-01', '2011-09-21', 1, PARM1);</pre>
CREATE VOLATILE TABLE T_EARLY AS (SELECT *, NULLIFZERO(days_worked) FROM tbl01 t WHERE t.id < PARM2 -);
<pre>select * from t_early where months_between(start_dt, end_dt) < var2;</pre>
END;

Databricks DBSQL

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Cmd 1	
1	VAR DECLARATIONS
2	CREATE WIDGET TEXT DBASE_TARGETTABLE DEFAULT 'RD_TBL1';
3	CREATE WIDGET TEXT DBASE_WORKTABLE DEFAULT 'LOAD_WORK';
4	CREATE WIDGET TEXT DBASE_ETTABLE DEFAULT 'LOADWORK';
5	CREATE WIDGET TEXT DBASE_UVTABLE DEFAULT 'LOADWORK';
6	CREATE WIDGET TEXT TARGETTABLE DEFAULT 'ML_TBL1';
7	CREATE WIDGET TEXT V_YEAR_FFSET DEFAULT '2000';
8	
Cmd 2	
cine a	
1	FUNCTION CALL TRANSLATIONS, VAR REFERENCES
2	INSERT INTO EMPLOYEE_TABLE
3	SELECT STG.*, CURRENT_DATE, 'OPT'
4	from
5	C
6	select *,
7	MONTHS_BETWEEN (
8	TRUNC(START_DT), END_DT = 1),
9	LOCATE('ADDRESS', trim(address_header))
10	<pre>from lci_load_tbls.lcixtes_eml_src_WT where OPT_TYP_CD is not null)STG</pre>
11	LEFT OUTER JOIN
12	LCI_DW_NADR_VIEWS.LCIXTEO_EML_OPT OPT
13	ON
14	STG.EML_AD=OPT.EML_AD
15	AND
16	STG.OPT_TYP_CD=OPT.OPT_TYP_CD
17	WHERE
18	STG.EML_AD IS NULL
19	AND EXTRACT(YEAR FROM START_DT) >= '\$V_YEAR_FFSET'
20	;
21	
Cmd 3	

EMP_ID INT,

EMP_NAME STRING, DOB DATE



HIVE

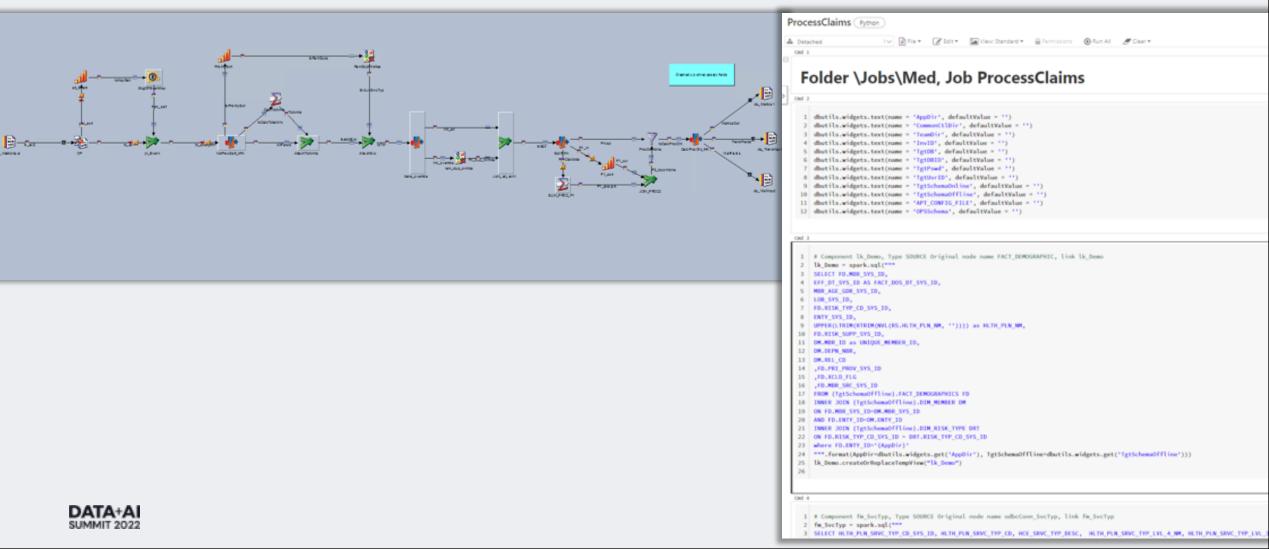
VAR DECLARATIONS SET DBASE_TARGETTABLE = 'RD_TBL1'; SET DBASE_WORKTABLE = 'LOAD_WORK'; SET DBASE_ETTABLE = 'LOADWORK'; SET DBASE_UVTABLE = 'LOADWORK'; SET TARGETTABLE = 'ML_TBL1'; SET V_YEAR_FFSET = 2000;
FUNCTION CALL TRANSLATIONS, VAR REFERENCES INSERT INTO EMPLOYEE_TABLE SELECT STG.*,CURRENT_DATE,'OPT' from F(
select *,
MONTHS BETWEEN (
TRUNC (START DT) , END $DT = 1$),
LOCATE ('ADDRESS', trim(address header))
from lci_load_tbls.lcixtes_eml_src_WT where OPT_TYP_CD is not null)STG
LEFT OUTER JOIN
LCI_DW_NADR_VIEWS.LCIXTEO_EML_OPT OPT
ON
STG.EML_AD=OPT.EML_AD
AND
STG.OPT TYP CD=OPT.OPT TYP CD
WHERE
STG.EML AD IS NULL
AND EXTRACT (YEAR FROM START DT) >= \${hiveconf:V YEAR FFSET}
,
TABLE DDL MANIPULATION
CREATE TABLE EMP LIST
EMP ID INT,
EMP NAME STRING,
DOB DATE
CLUSTERED BY (ID, NAME)
SORTED BY (ID ASC)
INTO 3 BUCKETS
STORED AS PARQUET
FUNCTION TRANSLATIONS
TNSERT INTO FMP LIST

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1	VAR DECLARATIONS
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5	CREATE WIDGET TEXT DBASE_UVTABLE DEFAULT 'LOADWORK';
	CREATE WIDGET TEXT TARGETTABLE DEFAULT 'ML_TBL1';
7	CREATE WIDGET TEXT V_YEAR_FFSET DEFAULT '2000';
8	
Cmd 2	
Lma 2	
1	FUNCTION CALL TRANSLATIONS, VAR REFERENCES
2	INSERT INTO EMPLOYEE_TABLE
3	SELECT STG. *, CURRENT_DATE, 'OPT'
4	from
5	
6	select *,
7	MONTHS_BETWEEN(
8	TRUNC(START_DT), END_DT = 1),
9	LOCATE('ADDRESS', trim(address_header))
10	<pre>from lci_load_tbls.lcixtes_eml_src_WT where OPT_TYP_CD is not null)STG</pre>
11	LEFT OUTER JOIN
12	LCI_DW_NADR_VIEWS.LCIXTEO_EML_OPT OPT
13	ON
14	STG.EML_AD=OPT.EML_AD
15	AND
	STG.OPT_TVP_CD=OPT.OPT_TYP_CD
	WHERE
	STG.EML_AD IS NULL
	AND EXTRACT(YEAR FROM START_DT) >= '\$V_YEAR_FFSET'
20	;
21	
Cmd 3	
1	TABLE DDL MANIPULATION
2	
з	CREATE TABLE EMP_LIST
4	(
5	EMP_ID INT,
	END MANE OTDING
6 7	EMP_NAME STRING, DOB DATE

TSQL

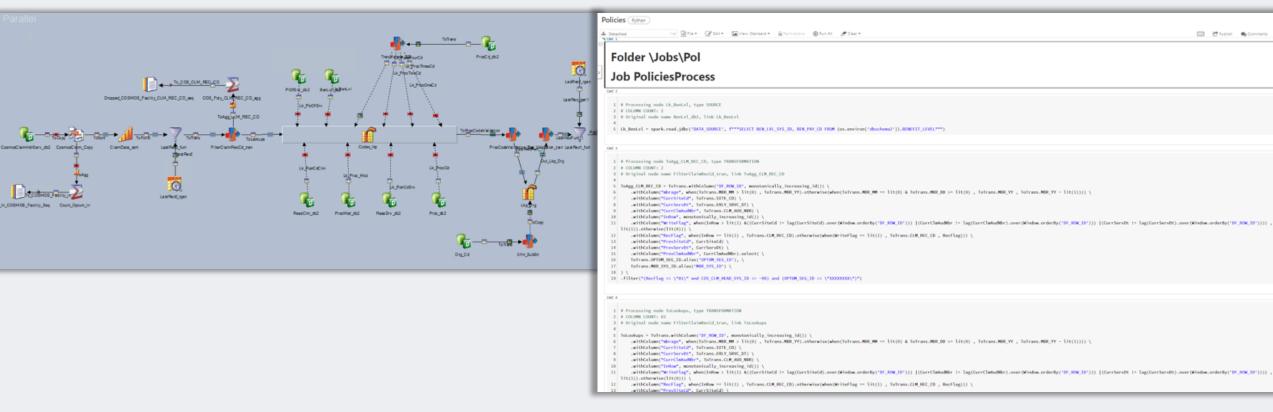
CREATE PROCESURE [FACT].[SP_Fopulate_KFI_Values]	dbutils.widgets.text("PrmStartRange", "")
@PrmStartRange DATETIME,	v_PrmStartRange = dbutils.widgets.get("PrmStartRange")
VIINCAICHANGO DACHIANG, VIINCAICHANGO DACHIANG,	dbutils.widgets.text("PrmEndRango", "")
@BatchLogIDoriginal INT	v_FrmEndRange = dbutils.widgets.get("FrmEndRange")
WITH RECOMPILE	dbutils.widgets.text("BatchLogIDDriginal", "")
M	<pre>v_BatchLogIDOriginal = dbutils.widgets.get("BatchLogIDOriginal")</pre>
BEGIN	inputDF lkp Dim eventtype = spark.read.parquet(*/mnt//**)
DECLANE #StartRange INT,	inputD9_lkp_Dim_eventtype.createOrReplaceTempView('Dim_eventtype')
#EndRange INT	isputDf lkp FACT TurbineMetric = spark.read.parquet('/mst//'') isputDf lkp FACT TurbineMetric.createGrReplaceTempView("FACT TurbineMetric')
Deletes last 15 days records and Reload data to get any new records which got loaded recently	inputDF lkp FACT TurbineEventLog = spark.read.parquet('/mt//*')
DELETE FROM (FACT).[TurbineOpHoursCounter_KPIValues_Static] WHERE (DateKey) >= CAST(REPLACE(CONVERT(CHAR(10), @PredtartRange, 121), '-',	<pre>inputDf_lkp_DIM_Eventtype.createOrReplaceTempView('DIM_Eventtype') inputDf_lkp_Dim_turbine = spark.read.parguet('/nnt//*')</pre>
the fuelt for the fuelt for the second states preserved and the second to be the second states the second states and s	inputDy 1kp Dim turbime.createOfRepBiceWrenyView('Dim turbine')
Max Ops Counter values	<pre>inputOF lkp Dim facility = spark.read.parguet('/mnt//*') inputOF lkp Dim facility.createOrReplaceTempView('Dim facility')</pre>
IP Object ID/ PACT, TurbineOpHoursCounterRFIValues Static Max') IS NOT NULL	isputty is Diff Turbine = spark.read.parquet(*/nrt/DiffS/Turbine/**)
TRONCATE TABLE FACT.TurbineOpHoursCounterKPIValues_Static_Max	isputDf_lkp_DIM_Turbine.createOrReplaceTempView('DIM_Turbine')
INSERT INTO FACT.TurbineOpHoursCounterHPIValues_Static_Max	geory_0 = spark.sql (***DELETE FROM FACT.TurbineOpHoursCounter_KFIValues_Static WHERE DateKey >= CAST(HEFLACE(replace(from_unixtime(unix_timestan
SELECT FacilityCallSign_TurbineName	Max Ops Counter values***.format(PrmStartHange*v_PrmStartHange))
,MAX (TurbineOpHoursCounter) MaxTOC ,MAX (TurbineOpHoursCounterB) MaxTOCB	query 1 = spark.sql(***TRONCATE TABLE FACT.TurbineOpHoursCounterKFIValues Static Max***)
,MAX (TurbineOpHoursCounterR) MaxTOCR	
FRCM [FWCT].[TurbineOpHoursCounter_KFIValues_Static] GROUP BY FacilityCallSign_TurbineName ORDER BY 1	<pre>guery_2 = spark.sql(""INSERT INTO FACT.TurbineOpHoursCounterEPIValues_Static_Max SELECT FacilityCallSign,TurbineName</pre>
	, NAX (TurbineOpHoursCounter) MaxTOC
SELECT #StartRange = (SELECT CASE WHEN MAX(DateKey) IS NOT MULL THEN CONVERT(VARCHAR, CONVERT(DATETIME, CONVERT(CHAR()), MAX(DateKey))))).	, MAX (TurbineOpHoursCounterB) MaxTOCB , MAX (TurbineOpHoursCounterB) MaxTOCR
SELECT #EndRange = CAST (REPLACE (CONVERT (CHAR (10) , #PINEndRange, 121), '-', ') AS INT)	FROM FACT.TurbineOpHoursCounter_KPIValues_Static
IF OBJECT_ID('Tempdb #TurbineOpHoursCounter #FITemp') IS NOT NULL	-GROUP BY FacilityCallSign, TurbineName ORDER BY 1***)
CROP TABLE #TurbineOpHoursCounter_KPiTemp	StartRange_df = spark.sql (***SELECT CASE WHEN MAX(DateKey) IS NOT NULL THEN replace(from_unixtime(unix_timestamp(CAST(CAST(OWX(DateKey) AS CHAR
WITH Cte MaxTurbineNames AS (SELECT FacilityCallSign,TurbineName,MAX(MaxTOC) AS MaxTOC, MAX(MaxTOCB) AS MaxTOCB, MAX(MaxTOCB) AS MaxTOC	<pre>Fact.TurbineOpHoursCounter RFIValues Static WHERE MTHV_OpDays_Diff_Counter 18 WULL***) v StartRange = StartRange df.collect()[0][0]</pre>
FROM FACT.TurbineOpHoursCounterKFIValues_Static_Max	
GROUP BY TurbineSame, FacilityCallSign)	EndRange_df = spark.sql("""SELECT CASTOREFLACE(replace(from_unixtime(unix_timestamp('(PrmEndRange)', "yyyy-Me-dd'T'HE(mm:ss.SSS"), "yyyy-Me-dd"), ' v EndRange = EndRange df.collect()[0][0]
SELECT	
TurbineKey, EventTypeKey,	<pre>geory_3 = spark.sql(***WITH cto MaxTurbineNames A5 (SELECT FacilityCallSign,TurbineName,MAX(MaxTOC) AS MaxTOC, MAX(MaxTOCB) AS MaxTOCB, MAX(Max FROM FACT.TurbineOpHoursCounter#FIValues_Static Max</pre>
Facilitykey ,	GROUP BY TurbineName, FacilityCallSign)
XX.FacilityCallSign, DateWey,	
TimeKey,	guery_4 = spark.sql (***CHEATE OR REFLACE TABLE TurbineOpHoursCounter_EFITemp AS
XX.TurbineName, [DateTime],	SELECT TurbineKey,
Eventryp,	EventTypeRey,
EventCode,	The Detectory,
InferviceFlag, TurbineActivePowerkW,	TH.TIMEKey, TH.EventTypeKey,
(LowPowerFilter(DD)),	ET.EventType,
(RatedPowerFilter(80)), LostProductionk0h,	ET. EventCode, TM. TurbineActivePowerkH,
EquipmentMakeModel,	RPT.LowPowerFilter(00),
EventFaultFlag, BooleanCtrALL,	RFT. RatedPowerFilter(NW) , LestProductionNWh,
TurbineOpHoursCounter+ISBULL(MaxTOC.0) AB TurbineOpHoursCounter,	STUFF(EquipmentMakeModel,CHARINDEX(' ',EquipmentMakeModel),LEN(EquipmentMakeModel),') AS EquipmentMakeModel ,
BooleanCtrBELOW, TurbineOpHoursCounterB*ISNULL(MarTOCB.() AS TurbineOpHoursCounterB,	CASE MMEN ET.EventType = 'Fault' THEN 1
BoleasterNNTED,	

DataStage



DataStage

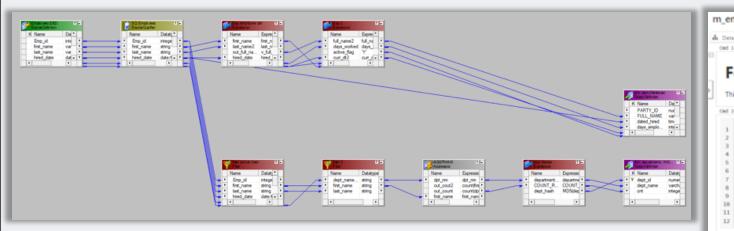
Databricks PySpark







Informatica



Databricks PySpark

m_employees_load (Python)

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Folder Conversion_From_Infa, Job m_employees_load

This is a demo mapping

- 1 # Processing mode SQ_Employees, type SOURCE
- 2 # COLUMN COUNT: 7
- 3 SQ_Employees = spark.read.jdbc(os.environ.get('HR_Database_CONNECT_STRING'), ***SELECT
- 4 Employees.Emp_id,
- 5 Employees.first_name,
- 6 Employees.last_name, 7 Employees.hired_date,
- 8 Employees.last_upd_date,
- 9 Employees, salary,
- 10 Employees.dept_name
- 11 FROM Employees
- 12 MHERE Employees.hired_date > '2020-01-01'***, properties=('user': os.environ.get('HR_Database_LOGIN'), 'password': os.environ.get('HR_Database_PASSMORD')

Ced 3

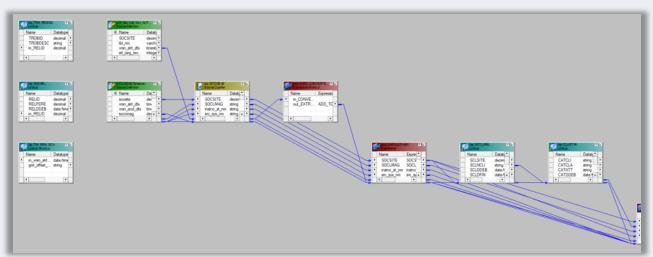
- 1 # Processing mode filter_active_dept, type FILTER
- 2 # COLUMN COUNT: 7
- 3 filter_active_dept = SQ_Employees.select(\ 4 SQ_Employees.Emp_id.alias("Emp_id"), \
- 5 SQ_Employees.first_name.alias('first_name'), \
- SQ_Employees.last_name.alias('last_name'), \
- 7 SQ_Employees.hired_date.alias('hired_date'), \ 7
- 50_Employees.last_upd_date.alias('last_upd_date'), \
 50_Employees.last_upd_date.alias('last_upd_date'), \
- 9 SQ_Employees.salary.alias('salary'), \
- 10 SQ_Employees.dept_name.alias('dept_name')) \
- 11 .filter("substring(dept_name, 1, 3) i= '000' and first_name != os.environ.get("WARL00')").withColumn("sys_row_id", monotonically_increasing_id())

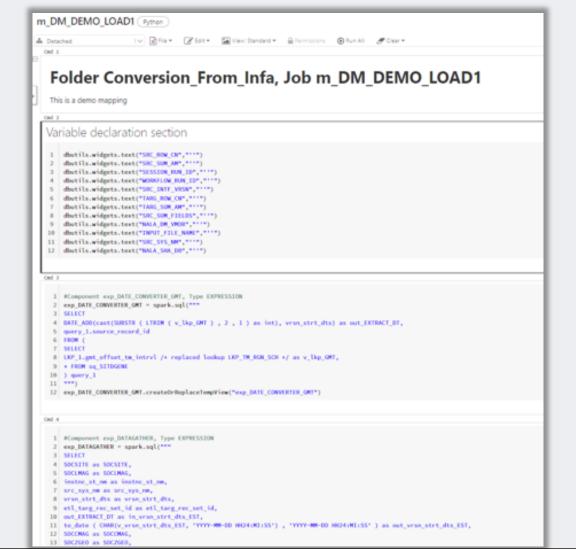
Ced 4

- 1 # Processing node Exp_employee_attr, type EXPRESSION 2 # COLUMN COUNT: 7 3 Exp_employee_attr = SQ_Employees.select(\
- 4 SQ_Employees.sys_row_id.alias('sys_row_id'), \
- SQ_Employees.first_name.alias('first_name'), \
- 6 SQ_Employees.last_name.alias('last_name2'), \
- 7 SQ_Employees.hired_date.alias('hired_date')).withColumn("v_full_name", concat(col('first_name") , lit(' ') , col('last_name2'))).select(\
- 6 (col('sys_row_id')).alias('sys_row_id'), \
- 9 col('first_name'), \
 10 col('last_name2'), \
- 10 cel('last_name2'), \
 11 (cel('v_full_name'))
- 11 (col('v_full_name')).alias('out_full_name'), \
 12 col('bired_date'), \
- 13 (datediff(current_date() , col('hired_date'))).alias('out_days_worked'), \
- 14 (lit('Y')).alias('active'), \
- 15 (current_date()).alias('curr_dt') \
- 16)



Informatica







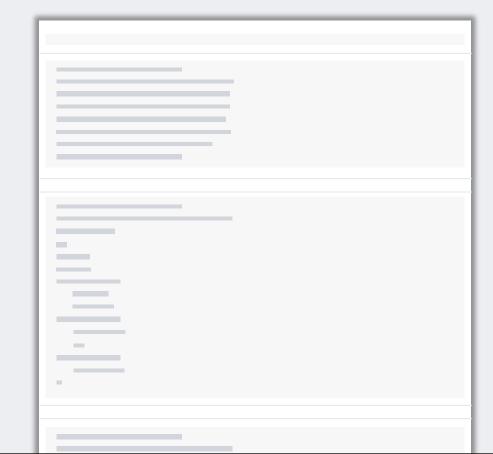
New Configurations

Usually 5-20 Days

[Legacy Tech]



Databricks



How much does it Cost?



BladeBridge Analyzer

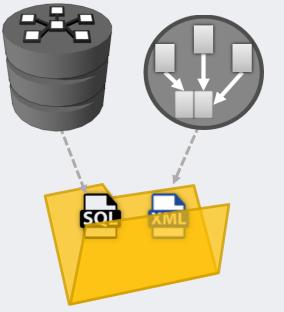
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Running Analyzer

Getting empirical counts to size the conversion



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Acquire Metadata

Export metadata from Legacy Systems

Run Analyzer

Point Analyzer to the folder location where the metadata has been exported

Job Complexity Categorization LOW 3341 MEDIUM 840 COMPLEX 311 VERY COMPLEX 58

Acquire Jobs Counts Copy the complexity counts



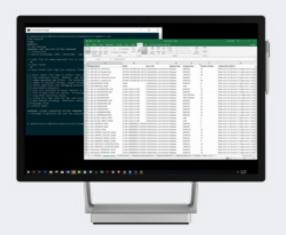
Run Pricing Calculator

Paste the Analyzer complexity counts into the calculator to obtain pricing. Available on partner portal

BladeBridge Onboarding

Becoming a Partner





BladeBridge Agreement

3 page agreement that enables you to have access to the BladeBridge Portal Assets

\$5000 Subscription to Analyzer

Enables access to the BladeBridge Analyzer for a year



Onboarding & Enablement

- Analyzer Keys
- Sales/Presales Guidance
- Project Assets
- Demo Jobs



BladeBridge Onboarding

Becoming a Partner



Assist Interpreting Analyzer

Export metadata from Legacy Systems

Evaluate BladeBridge Assistance

BladeBridge provides 1 hour per \$10,000 spend on BladeBridge Converter. We recommend buffering that with a few more hours on your first project

Configuration Training

BladeBridge will conduct a training with the Systems Integrator on the Reader, Writer, and Bridge configuration files.

BladeBridge PS Assist

BladeBridge PS team overlap with your project team based on determined duration

Jointly Review Pricing Calculator

Review that calculator and that the numbers match Analyzer's output

Purchase Order for Software

Systems Integrator generates a Purchase Order based on the calculator

Generate Keys

BladeBridge will generate keys for the converter software based on the Analyzer Checksums



DATA+AI SUMMIT 2022

Demo...



Jared Hillam

GTM VP jhillam@bladebridge.com



Up Next… Simon Eligulashvili

CoFounder, BladeBridge

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Thank You



Jared Hillam

GTM VP jhillam@bladebridge.com



Simon Eligulashvili CoFounder, BladeBridge