

Category	Exercise name	Description	Difficulty	Duration																															
					XML METADATA	JSON METADATA	HIERARCHICAL FILES METADATA	FLAT FILES METADATA	PROPERTY FIELDS	PARAMETERIZED METADATA	QUERY METADATA	EXCEL METADATA	VARIABLE METADATA	TRANSFORMATION LINE	WEB SERVICES	STAGE IN MAPPING	PIVOT	CROSS JOIN	NOT EXISTS OPERATOR	FULL OUTER JOIN	REPLICATION TEMPLATE	HIERARCHICAL FILES TEMPLATE	PARAMETERS	WAIT FILES ACTION	SCRIPTING ACTION	PUBLISH ACTION	GET PARAMETERS	SQL OPERATION VALUE	EXECUTE DELIVERY ACTION	OS COMMAND ACTION	BIND LINK	INHIBITORY LINK	PHYSICAL LOOP	GENERATION CONDITION	EXECUTION CONDITION
Additional	Add01 - Bind link	Bind link & variables	<div><div></div></div> 1	<div><div></div></div> 1																															
	Add02 - Generate a file with a file	XML, JSON & Stage	<div><div></div></div> 1	<div><div></div></div> 1																															
	Add03 - Hierarchical files	Hierarchical file : Metadata, replication and mapping	<div><div></div></div> 2	<div><div></div></div> 2																															
	Add04 - Integrate multiple files in DB	Reverse and Read multiple files with the same structure in a mapping	<div><div></div></div> 1	<div><div></div></div> 1																															
	Add05 - Wait different files in DB	Wait different files, SqlOperation, executeDelivery & parametrized md	<div><div></div></div> 2	<div><div></div></div> 3																															
	Add06 - Operating system command	OS command, return code/message & startdelivery execution	<div><div></div></div> 2	<div><div></div></div> 2																															
	Add07 - Loop in a process	Loop with parameters & conditions. Used to build a tool.	<div><div></div></div> 2	<div><div></div></div> 2																															
	Add08 - Pivot on activity	Pivot columns to rows, query and cross join	<div><div></div></div> 2	<div><div></div></div> 2																															
	Add09 - Inhibitory link	Parameter, action variable and condition, inhibitory link	<div><div></div></div> 3	<div><div></div></div> 2																															
	Add10 - Pivot with column name	Pivot columns to rows with a parameter table	<div><div></div></div> 2	<div><div></div></div> 2																															
	Add11 - SQL Operation	SQL Operations and Bind Link	<div><div></div></div> 2	<div><div></div></div> 2																															
	Add12 - Split file	Reverse file with Transformation Line in Javascript, filter and cross join	<div><div></div></div> 3	<div><div></div></div> 2																															
	Add13 - Greatest and least pivot	Pivot column to row, stages	<div><div></div></div> 2	<div><div></div></div> 2																															
	Add14 - Publish generated json files	Generate multiple json files and publish a parameter with the list of the files generated Use get parameters to do a cumulative concat	<div><div></div></div> 1	<div><div></div></div> 1																															
	Add15 - Build and use Geocoder Web S	Publish, reverse and invoke a Web Service, use of parameters and XML	<div><div></div></div> 2	<div><div></div></div> 3																															
Advanced	Adv01 - Pivot	SQL manipulation, Pivot Row to Column and Column to Row, cross join, query	<div><div></div></div> 2	<div><div></div></div> 2																															
	Adv02 - Excel	Excel Reverse, Read & Write	<div><div></div></div> 1	<div><div></div></div> 1																															
	Adv03 - Not Exists	Not exists on a source table, on a target table, XPATH expressions, filters and stage	<div><div></div></div> 1	<div><div></div></div> 1																															
	Adv04 - Conditioned bind link	XML, JSON, Bind conditions & variables with ExecuteDelivery and parameters	<div><div></div></div> 2	<div><div></div></div> 2																															
	Adv05 - Update a file with a file	Files, stage and full outer Join	<div><div></div></div> 2	<div><div></div></div> 2																															
	Adv06 - Publish/get variables in loop	Publish & get parameters, generation & execution conditions, parametrized md	<div><div></div></div> 3	<div><div></div></div> 2																															
	Adv07 - Generate multiple files	Hierarchical Files template & tag	<div><div></div></div> 2	<div><div></div></div> 2																															
	Adv08 - Parameters in DB	Publish variables and use them in conditions and actions, scripting action	<div><div></div></div> 3	<div><div></div></div> 2																															
	Adv09 - Asynchronous actions	Variable & parameters manipulation, conditions	<div><div></div></div> 2	<div><div></div></div> 3																															
	Adv10 - Html BI weather	Html tool, executeDelivery, parameters	<div><div></div></div> 2	<div><div></div></div> 2																															
	Adv11 - Recursive process	ExecuteDelivery, parameters, ExecutionCondition	<div><div></div></div> 3	<div><div></div></div> 2																															
	Adv12 - Dynamic execution	ExecuteDelivery action, bind link, Loop, parameters & execution conditions	<div><div></div></div> 3	<div><div></div></div> 3																															
	Adv13 - Create a component	Xpath expressions & XSL variables	<div><div></div></div> 3	<div><div></div></div> 2																															
	Adv14 - Loop and Recursivity	Xpath expressions, Loop, parameters, recursivity, parameters, bind link; execution conditions	<div><div></div></div> 3	<div><div></div></div> 3																															
	Adv15 - Tree recursive trip	Xpath expressions, Loop, parameters, recursivity, parameters, bind link; execution conditions	<div><div></div></div> 3	<div><div></div></div> 3																															