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in this edition
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demonstration
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custom SSIS
task to the
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using the
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Why are custom
components
necessary?

Because even
though the SSIS
catalog of
built-in tasks

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and components is a marvel of engineering, gaps remain in the available functionality.

One such gap is a constraint of the built-in SSIS Execute Package Task, which does not allow SSIS

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tailored to
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Configure and
execute Visual
Studio in the
way that best
supports SSIS
task
development

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Create a class library as the basis for an SSIS task, and reference the needed SSIS assemblies. Properly sign assemblies that you create in order to invoke them from your task. Implement

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DP 300 exam.

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we continue to
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information
about the
importance of
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Cloud computing
is everywhere,
but not

everyone knows
exactly what it

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get started. We
try to focus
more on Azure
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these cloud

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can work for
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you to improve
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useful tricks

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the PolyBase
feature of SQL
Server 2019 to
integrate SQL
Server with
Azure Blob
Storage, Apache
Hadoop, other
SQL Server
instances,
Oracle, Cosmos
DB, Apache
Spark, and more.*

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how PolyBase can
help you reduce
storage and*

*other costs by
avoiding the
need for ETL
processes that
duplicate data
in order to make
it accessible
from one source.*

*PolyBase makes
SQL Server into*

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that one source,
and T-SQL is
your golden
ticket. The book
also covers
PolyBase scale-
out clusters,
allowing you to
distribute
PolyBase queries
among several
SQL Server
instances, thus
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where to find
more information
on obscure cross-
platform errors.

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is a key target
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environments who
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want one easy
Automation
way of
communicating
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to build
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sources Apply
best practices
to optimize
package and
project
configuration
and deployment
Manage security
settings in the*

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data integration
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processes, and
for no added*

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cost over what you've already spent on licensing SQL Server. If you already have a license for SQL Server, then you do not need to spend more money to extend SSIS with custom tasks and components. Why

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*are custom
components
necessary?*

*Because even
though the SSIS
catalog of built-
in tasks and
components is a
marvel of
engineering,
there do remain
gaps in the
functionality
that is*

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Business
provided. These
Intelligence And
gaps are
Data Warehouse
especially
Automation
relevant to
enterprises
practicing Data
Integration
Lifecycle
Management
(DILMS) and/or
DevOps. One of
the gaps is a
limitation of
the SSIS Execute

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*Package task.
Developers using
the stock
version of that
task are unable
to select SSIS
packages from
other projects.
Yet it's useful
to be able to
select and
execute tasks
across projects,
and the example*

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*used throughout
this book will
help you to
create an
Execute Catalog
Package task
that does in
fact allow you
to execute a
task from
another project.
Building on the
example's
pattern, you can*

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create any task
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to your

*specific, data
integration and
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execute Visual*

Studio in the

way that best

supports SSIS

task development

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Properly sign assemblies that you create in order to invoke them from your task Implement source code*

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*control via
Visual Studio
Team Services,
or your own
favorite tool
set Code not
only your tasks
themselves, but
also the
associated task
editors
Troubleshoot and
then execute
your custom*

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tasks as part of
your own project
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administrators
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who are involved
in ETL projects
built around SQL
Server
Integration
Services (SSIS).
Readers should
have a

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background in programming along with a desire to optimize their ETL efforts by creating custom-tailored tasks for execution from SSIS packages.

I have been dealing with many Power BI

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challenges in my
professional
life as a Power
BI consultant
and a trainer.

*Challenges
normally come as
calculation or
DAX questions,
or sometimes as
a performance
question.*

*However, after
digging deeper*

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into the problem, soon, it will be revealed that the problem is related to a more fundamental challenge; data modeling. If you have a Power BI implementation with many calculation-related or performance-

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*related issues,
I strongly
suggest looking
into your data
model because
that is where
most of the
problems start. A
good data model
is a great base,
which upon that,
you can build up
many stories of
calculations and*

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analysis. A bad data model causes problems on every level that you add upon it, and might sometime cause the whole solution to collapse. Fortunately, data modeling is not rocket science. I explained the

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basic principles
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of the data
Data Warehouse
modeling with
Automation
examples in this
book. Use this
book as the
learning path
towards a better
data model. Most
of the tips
mentioned in
this book are
product-agnostic
(such as star-

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schema, dimension, and fact tables). However, this book is particularly designed and developed for a Power BI product user. This book is for you if you are building a Power BI solution. If

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*your task is
only visualizing
the existing
data, this book
might not be
needed for you.
However, What I
have seen in
many cases, is
that the
requirement
starts with just
visualize the
data, and then*

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more data tables appear, and you get into the tunnel of data modeling without knowing the principles of it. This book is a guide for you through that tunnel.

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for this
complete
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intelligence
(AI) and machine
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will learn about
the
architectural
foundations that

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