




Azure Data Factory



Course Duration

2
Days



This course will provide delegates with the skills to use Azure Data Factory to create the necessary ETL (Extract, Transform and Load) processes to extract data from various sources and use it to populate a data warehouse. The processes created within Azure Data Factory will be highly parameterised in order to make them as flexible, efficient and as reusable as possible. This will help to limit the number of processes required to load the data warehouse.

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On completion, delegates will be able to:

- Create linked services and datasets within Azure Data Factory to access various data sources.
- Create Azure Data Factory pipelines that will perform the required ETL processes.
- Incorporate delta extract and slowly-changing dimension processing.
- Setup orchestration pipelines to run the individual pipelines in the correct order and with the correct dependencies.
- Use an Azure Logic App and Key Vault within the pipelines.
- Monitor the execution of the various pipelines to manage their outcomes.

Who should attend?

IT professionals who will be using Azure Data Factory in order to populate a data warehouse.

Prerequisites

A basic understanding of data warehouse design and the ETL processes required to load the warehouse.



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Practical work

Practical sessions are used within the course to reinforce the topics covered. These allow delegates to have direct hands-on practice when using Azure Data Factory.

Course Content

See below

Related and follow-on courses

- Data Warehouse Standards
- Azure Data Warehouse Resources



Course Content

- **Introduction to Azure Data Factory.**
- **Setup linked services and datasets.**
- **Pipelines to Load Dimension from a Flat File.**
 - Create parameterised pipelines to load data from flat files held in an Azure data lake, transform the data and load it into a dimension table contained within the data warehouse.
- **Amend the pipelines for UPSERTs.**
- **Pipelines to Load Dimensions from a DB Table.**
 - Create or run parameterised pipelines to load data from tables held in an Azure SQL Database, transform and load the data into a data warehouse dimension table.
- **Trigger a pipeline to run immediately or use a scheduled trigger.**
- **Incorporate Delta extract and slowly-changing dimension processing.**
- **Create Orchestration pipelines to sequence the running of several pipelines in the correct order and with the correct dependencies.**
- **Incorporate an Azure Logic App in order to send an email upon a pipeline's success or failure.**
- **Use a secret contained within an Azure Key Vault to access an Azure SQL Database.**
- **Monitor the execution of the pipelines in order to determine whether or not they were successful.**
- **Pipelines to Load Fact from a DB Table.**
 - Create or run parameterised pipelines to load data from Azure SQL Database tables, transform and load the data into a data warehouse fact table.

Acuma Education

All Acuma courses are delivered by trainers who are highly experienced consultant practitioners. This rich project experience coupled with professional training skills helps delegates to focus on how the course contents can be put into practice in their workplace. Acuma delivers courses from dedicated training facilities in Manchester, Birmingham and London, but also deliver training offsite using suites of laptops, with the option to customise courses to use your own business data and tailored to your exact training needs. The most appropriate training format depends upon your training objectives, number of learners, timescales, budgets and delivery logistics. Whatever your needs, Acuma will find the approach most suited to them.

Acuma Education's seal of quality is demonstrated through consistent achievement of the prestigious "Gold Standard" from the Learning and Performance Institute.

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