BIG DATA IN THE CLOUD

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Lecturer / Lead BDL2

DAY5 - Exam

Lucerne University of
Applied Sciences and Arts

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Master of Science in Applied Information and Data Science

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Deadlines	Task/Content	Responsibility / Sender	Documents/Filing
BDLC			
12.02-16.02	▪ **BDLC week course**	Module Leader, Coaches	teaching and exercises
16.02	▪ **Exam start (afternoon)**	Module Leader, Coaches	Topic(s) explained. Teams start to work together on the case. Each team has a total budget of 250CHF Azure Consumption.
16-29.02	▪ **Coaching(s)**	Students	Each team is allowed to request 1xCoaching sessions each one of 30mins duration. The coaching's are optional and will not be considered on the grading and assessment.
01.03	▪ **Exam presentation (Zoom)**	Module Leader, Coaches	Present your BigData project and share your solution deployment. Zoom link and time will be hand over during the course week. Each team can arrange the exam latest by 29.2s.

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Part	Weighting	How
Requirements Engineering definition & architecture	30%	Deconstruction and simplicity of requirements. Use of methods and possible diagrams. Depict the solution architecture.
Big Data Solution approach	40%	Solution Selection Architecture definition Deployment at the Azure Cloud
Presentation / Form	10%	Correct language Attractive offering presentation
Pricing and Support	20%	Calculation of the solutions costs and possible improvements Support clauses and SLA definitions

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Exam topic

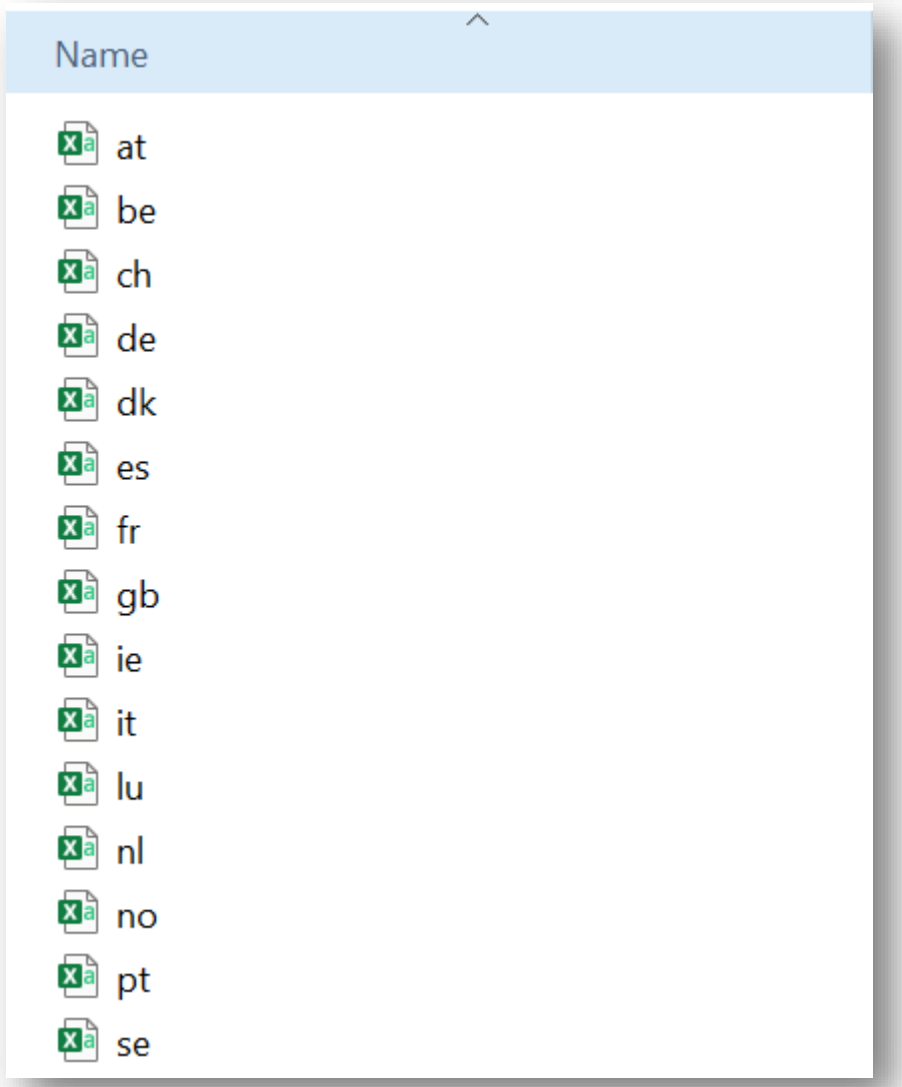
You are an energy consultant given the task to digitalise an amount of data from (western) Europe power consumption

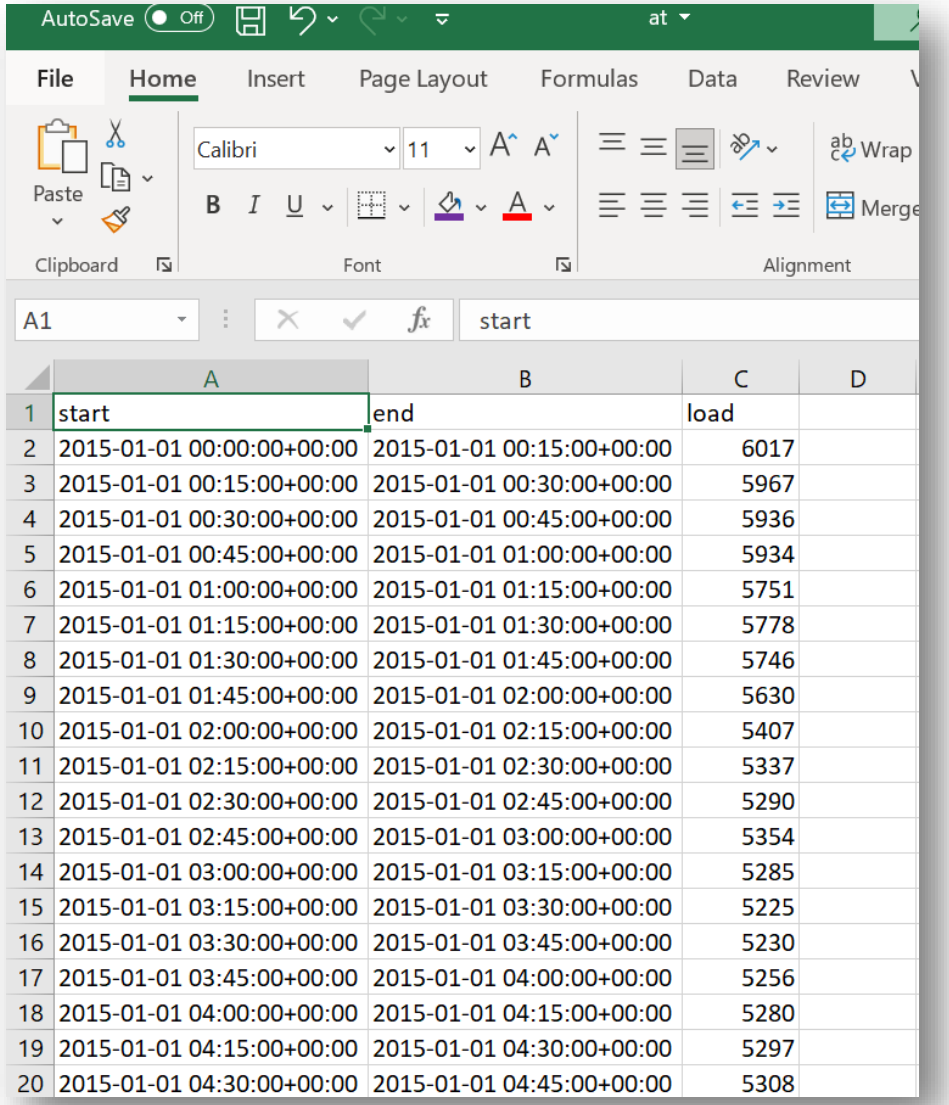
Your task is to digitalise them and be able to define the entire project and price it.

All data should be then digitalised and accessible. In best case also presentable.

Be able to show the highest consumption per country and also find correlations of highest consumptions per country.

Zip files in in ILIAS





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4	2015-01-01 00:30:00+00:00	2015-01-01 00:45:00+00:00	5936	
5	2015-01-01 00:45:00+00:00	2015-01-01 01:00:00+00:00	5934	
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8	2015-01-01 01:30:00+00:00	2015-01-01 01:45:00+00:00	5746	
9	2015-01-01 01:45:00+00:00	2015-01-01 02:00:00+00:00	5630	
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13	2015-01-01 02:45:00+00:00	2015-01-01 03:00:00+00:00	5354	
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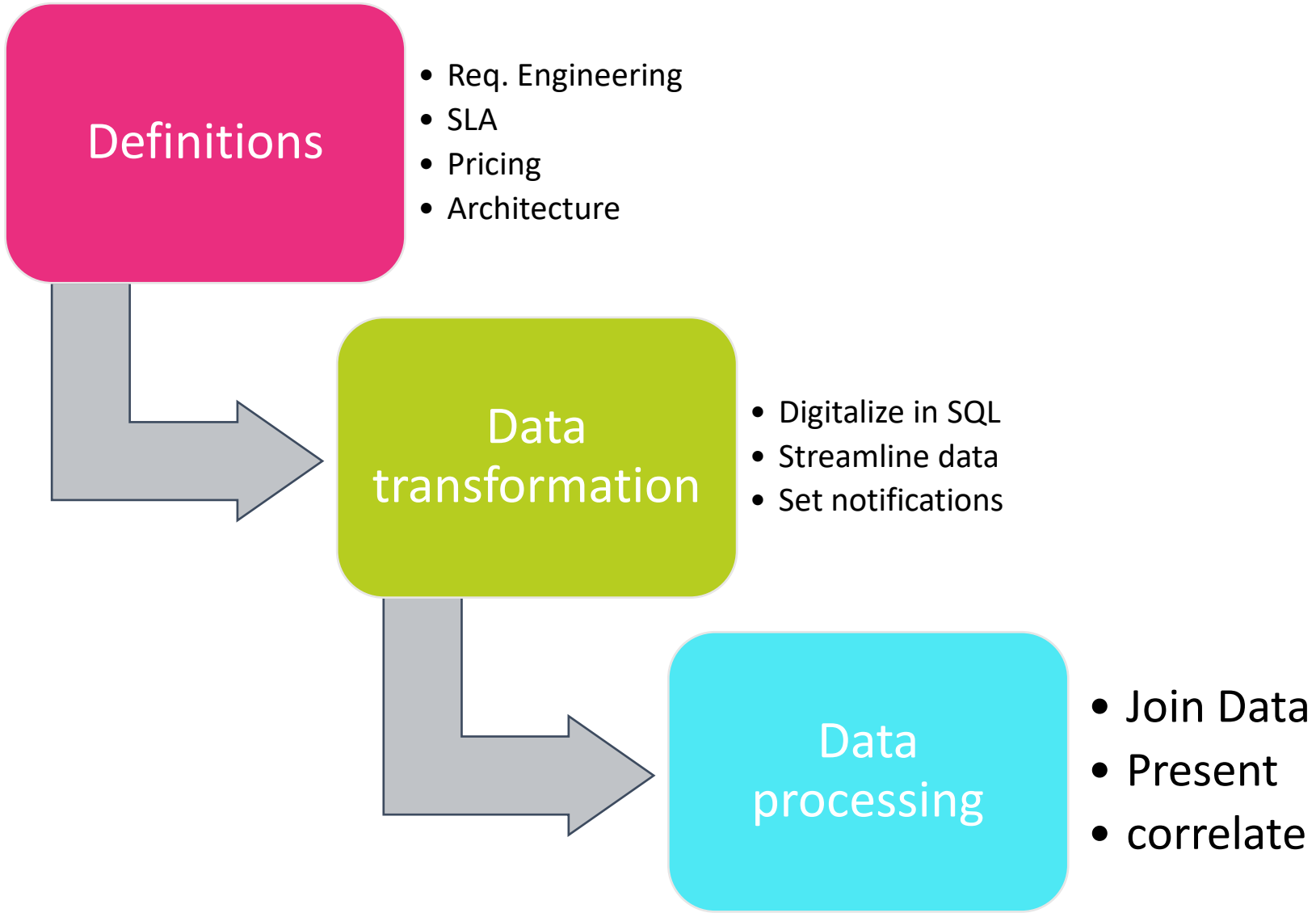
Procedure


Definitions
Req. Engineering
SLA
Pricing
Architecture
Data transformation
Digitalize in SQL
Streamline data
Set notifications
Data processing
Join Data
Present
correlate

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Delivery

You will have to Upload to ILIAS until the **01.3 at 17.00:**

- Req.Engineering Document
- PPT with the architecture, SLA objectives and price forecast for the solution

Have your team instance (naming) with the solution sent to us per **email** (one instance)

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THANK YOU