

# Data Transformation Examples by Direction

Transformation Type	Example
<b>Structured → Structured</b>	SQL → normalized SQL schema, or DB migration
<b>Structured → Semi-Structured</b>	SQL → JSON or XML export
<b>Structured → Unstructured</b>	Table → PDF, text doc
<b>Semi → Structured</b>	JSON logs → SQL via ETL
<b>Semi → Semi</b>	XML → JSON, or NoSQL → NoSQL (e.g., MongoDB → Firestore)
<b>Semi → Unstructured</b>	JSON → raw text, stripping tags
<b>Unstructured → Structured</b>	NLP extracts entities from resume → DB table
<b>Unstructured → Semi</b>	Transcribed video → JSON with timestamps
<b>Unstructured → Unstructured</b>	DOCX → TXT (format conversion)