Course 2 — From Dashboards to AI-Driven Analytics

Tier: 2 (Practitioner-Tutor) · **Days:** 3 · **Cohort max:** 16 · **Ratio:** 1:16
Prerequisites: Working knowledge of SQL and a BI tool (Power BI/Tableau).
Tools provisioned: Text-to-SQL tool access (Vanna/WrenAI), LLM access, sample data warehouse, BI sandbox.

Day 1 — Natural language to SQL: Text-to-SQL tools; prompt engineering for data queries; validating AI-generated SQL for correctness and bias.
Day 2 — Automated insight generation: LLMs to summarize trends and explain anomalies; AI-assisted data cleaning; integrating AI outputs into Power BI/Tableau.
Day 3 — Capstone: build an AI-augmented analytics workflow (business question → SQL → validated insight summary → visualization).

Capstone artifact: End-to-end analytics pipeline with AI component.
Tutor certification: Tier 2 (domain: analytics) + rubric calibration.
Kit-specific notes: Curated datasets with known "gotchas" so tutors can teach SQL validation; model answers for every query.

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