

AI-Enabled Database Developer

Build production database solutions with AI built in — and earn the Microsoft DP-800 credential.

Databases are no longer just systems of record — they're systems of intelligence. This program prepares data analysts and engineers to design, secure, deploy, and AI-enable modern database solutions using SQL Server 2025, Azure SQL, and Microsoft Fabric — and ship AI features the day they start work.

WHAT YOU'LL BE ABLE TO DO

- **Design schemas that scale.** Temporal tables, JSON columns, graph relationships.
- **Write T-SQL like a pro.** Window functions, CTEs, error handling, the senior patterns.
- **Secure & deploy.** Always Encrypted, Managed Identity, RLS, CI/CD.
- **Build AI-native features.** Vector search, embeddings, hybrid retrieval, RAG — in the database.
- **Ship & certify.** A real portfolio app, plus structured DP-800 prep.

BUILT FOR

Data analysts moving into engineering · developers modernizing toward AI · application engineers wanting data fluency · career changers targeting a credential · teams on Microsoft SQL, Azure SQL, and Fabric.

HOW YOU'LL LEARN

Self-paced 20–45 min lessons · live flipped-classroom sessions · Docker-first labs · one project across all five sub-courses.

THE PROJECT — FIELDNOTE

A SaaS for field-service technicians you build, secure, deploy, and AI-enable across the program — culminating in a capstone defense and DP-800 attempt.

STRUCTURE 5 Courses	FORMAT Hybrid	CREDENTIAL DP-800	CAPSTONE RAG App
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Ready to build databases that think?

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The Five Sub-Courses

AIDD-MS-0 · SQL Foundations

OPTIONAL · PLACEMENT-ROUTED · 18 LESSONS · ~25-30 HOURS

Relational thinking, SELECT, JOINS, aggregation — the fundamentals the program assumes. A fully taught foundation, not a gate.

AIDD-MS-1 · Database Development

28 LESSONS · ~22-28 HOURS · DP-800 DOMAIN 1

Schema design with temporal tables, JSON, and graph; the advanced T-SQL toolkit; programmability; AI-assisted development with Copilot and MCP.

☒ [Builds FieldNote v1 — schema, queries, programmability.](#)

AIDD-MS-2 · Security & Deployment

27 LESSONS · ~22-28 HOURS · DP-800 DOMAIN 2

Always Encrypted, RLS, Managed Identity; performance with execution plans, DMVs, Query Store; SQL Database Projects, DACPACs, GitHub Actions; Azure integration.

☒ [Hardens FieldNote for production.](#)

AIDD-MS-3 · AI Capabilities

20 LESSONS · ~16-20 HOURS · DP-800 DOMAIN 3

External models from T-SQL; embeddings; full-text, vector (DiskANN), and hybrid retrieval with RRF; end-to-end RAG in stored procedures. The differentiating sub-course.

☒ [Makes FieldNote AI-native — semantic search + RAG.](#)

AIDD-MS-4 · Capstone & DP-800 Exam Readiness

3 MODULES / 10 PHASES · ~25-35 HOURS

Capstone polish and peer defense; evidence-based exam readiness (75% threshold); a 12-month plan with a concrete 90-day deliverable.

☒ [Defends FieldNote, earns the credential.](#)

How It Maps to DP-800

Three skill domains, each mapped directly to a sub-course. Passing score 700/1000.

DP-800 DOMAIN COVERAGE

Domain 1 · Design & develop. 35–40% — AIDD-MS-1.

Domain 2 · Secure, optimize, deploy. 35–40% — AIDD-MS-2.

Domain 3 · Implement AI capabilities. 25–30% — AIDD-MS-3.

WHAT MAKES THIS DIFFERENT

Role-first, not exam-first. We teach the job; the test is a byproduct.

One coherent system. FieldNote grows with you across the program.

Docker-first labs. Azure only where DP-800 requires it.

THE FIELDNOTE JOURNEY

Course 1 · Build

Schema, queries, and programmability.

Course 2 · Harden

Security, performance, CI/CD, observability.

Course 3 · AI-Enable

Semantic search and a working RAG interface.

Course 4 · Defend

Close gaps, document, defend, sit the exam.

PRACTITIONER-LED

Designed and taught by working database engineers, not exam-prep specialists. You learn the techniques real teams use — the credential follows.

Where This Takes You

One real project, one Microsoft credential, and a path that scales across platforms.

~95 LESSONS	~110 HOURS	1 REAL PROJECT	1 CREDENTIAL
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CAREER OUTCOMES

Roles: database developer, data engineer, AI-adjacent app developer, analytics engineer.

Credential: Microsoft Certified: SQL AI Developer Associate (via DP-800).

Portfolio: production RAG app with source control, CI/CD, observability.

CONTINUING PATH

A prerequisite for advanced Doc Taco programs in applied data and AI engineering. DP-800 renewal prep is built into AIDD-MS-4.

Sectors: SaaS, finance, healthcare, government, manufacturing, consulting.

SAME PROGRAM · MULTIPLE PLATFORMS

AWS — Available · Microsoft — Available · PostgreSQL — Planned · MySQL — Planned
· Oracle — Planned

Need cloud subscriptions? No — Docker-first; Azure only where DP-800 requires it.

Individual sub-courses? Yes — each is credentialed separately.

Exam fee included? No — the voucher is purchased directly from Microsoft.

New to SQL Server? A placement assessment routes you to the right start.

Talk to an advisor about your starting point.