

# Data Modeling & Ingestion

Multi-store schema design and batch + streaming ingestion on AWS — ~60% of DEA-C01.

This is where the FieldNote data layer takes shape. Design across Aurora PostgreSQL and DynamoDB, choose the right store, write advanced PostgreSQL, and build ingestion with Glue, DMS, Kinesis, and Lambda.

## WHAT YOU'LL BE ABLE TO DO

- **Design for the right store.** Relational vs document vs key-value vs time-series.
- **Model in Aurora and DynamoDB.** Normalized PostgreSQL and single-table DynamoDB.
- **Write advanced PostgreSQL.** JSONB, window functions, CTEs, fuzzy matching.
- **Build ingestion pipelines.** Glue, DMS, Kinesis, Lambda — batch and streaming.
- **Catalog your data.** Glue Data Catalog and Lake Formation.

## PREREQUISITES

AIDD-AWS-0 or entry-diagnostic pass · basic SQL and AWS console/IAM · the LocalStack-first lab environment.

## CREDENTIAL MAPPING

DEA-C01 Domain 1 (Ingestion & Transformation, 34%) + Domain 2 (Data Store Management, 26%) — ~60% of the exam.

## BUILD — FIELDNOTE V1

Builds FieldNote v1 — a multi-store data layer (Aurora + DynamoDB + S3) with batch and streaming ingestion.

|                       |                        |                         |                              |
|-----------------------|------------------------|-------------------------|------------------------------|
| LESSONS<br><b>~30</b> | TIME<br><b>~25-30h</b> | FORMAT<br><b>Hybrid</b> | EXAM<br><b>Dom 1 &amp; 2</b> |
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## Ready to build a multi-store data layer?

Cohort dates and enrollment at [doctaco.academy/aidd-aws](https://doctaco.academy/aidd-aws)

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