

Ab Initio for Data Engineering

Duration: 3 Months (Mon–Fri, ~120 Hours)

Mode: Live Online / Classroom

Tools & Technologies: Ab Initio GDE, EME, SQL

Syllabus

Week 1

- SQL Basics: DDL, DML, SELECT, WHERE
- Ab Initio GDE interface overview
- Assignment at end of week

Week 2

- SQL Aggregations: GROUP BY, HAVING
- Building first Ab Initio Graphs
- Assignment at end of week

Week 3

- SQL Joins: INNER, LEFT, RIGHT, FULL
- Components: Joins, Filters, Transforms
- Assignment at end of week

Week 4

- Partitioning & parallelism concepts
- Assignment at end of week

Week 5

- Error handling, checkpoints, rollbacks
- Assignment at end of week

Week 6

- Working with EME
- Mock Interview 1: SQL + Ab Initio basics

Week 7

- Graph optimization & best practices
- Assignment at end of week

Week 8

- Advanced reusable components
- Assignment at end of week

Week 9

- Enterprise ETL pipeline design
- Assignment at end of week

Week 10

- SQL + Ab Initio integration
- Assignment at end of week

Week 11

- Project development – Ab Initio
- Assignment at end of week

Week 12

- Capstone Project
- Mock Interview 2: SQL + Ab Initio end-to-end
- Final project presentation

Learning Outcomes

- Write SQL queries till joins
- Understand Ab Initio GDE and components
- Use partitions and parallelism in ETL
- Handle errors and optimize graphs
- Integrate SQL with Ab Initio pipelines
- Work with EME metadata hub
- Deliver ETL projects using Ab Initio