

IBM DataStage for ETL

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

Mode: Live Online / Classroom

Tools & Technologies: IBM DataStage Designer, Director, Administrator, SQL

Syllabus

Week 1

- SQL Basics: DDL, DML, SELECT, WHERE
- DataStage architecture overview
- Assignment at end of week

Week 2

- SQL Aggregations: GROUP BY, HAVING
- Sequential & parallel jobs
- Assignment at end of week

Week 3

- SQL Joins: INNER, LEFT, RIGHT, FULL
- Stages overview – Lookup, Join, Aggregator
- Assignment at end of week

Week 4

- Job sequences & parameters
- Assignment at end of week

Week 5

- Error handling & debugging parallel jobs
- Assignment at end of week

Week 6

- Monitoring jobs in Director
- Mock Interview 1: SQL + DataStage basics

Week 7

- Advanced stages – Transformer, Containers, Reusable jobs
- Assignment at end of week

Week 8

- Parallel job design & optimization
- Assignment at end of week

Week 9

- Integration with databases & files
- Assignment at end of week

Week 10

- SQL + DataStage pipeline building
- Assignment at end of week

Week 11

- Project development – ETL solution
- Assignment at end of week

Week 12

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

Learning Outcomes

- Write SQL queries till joins
- Understand DataStage Designer, Director, Administrator
- Develop sequential and parallel jobs
- Work with stages and job sequences
- Handle errors and monitor jobs
- Optimize parallel job performance
- Deliver ETL projects using SQL + DataStage