

Course Intro

Foundations of Data Warehousing

August 24, 2026

Data Warehouse Architecture 1.0

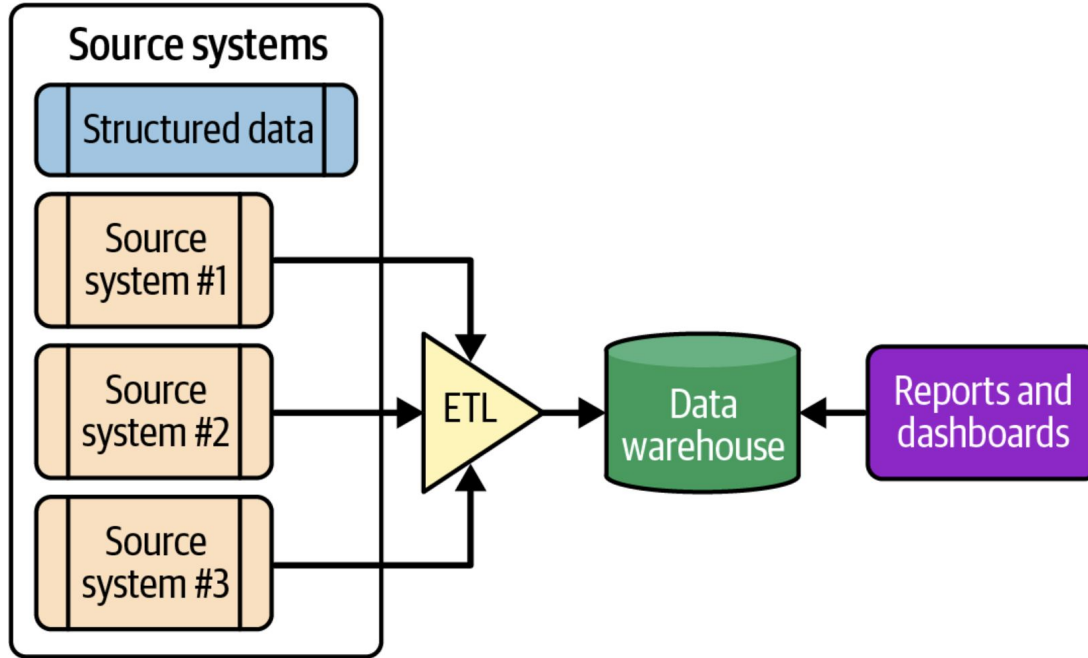


Figure 2-1. Data warehouse architecture

Source: Gaurav Ashok Thalpati, Practical Lakehouse Architecture, First Edition, O'Reilly, 2024.

Data Warehouse Architecture 2.0

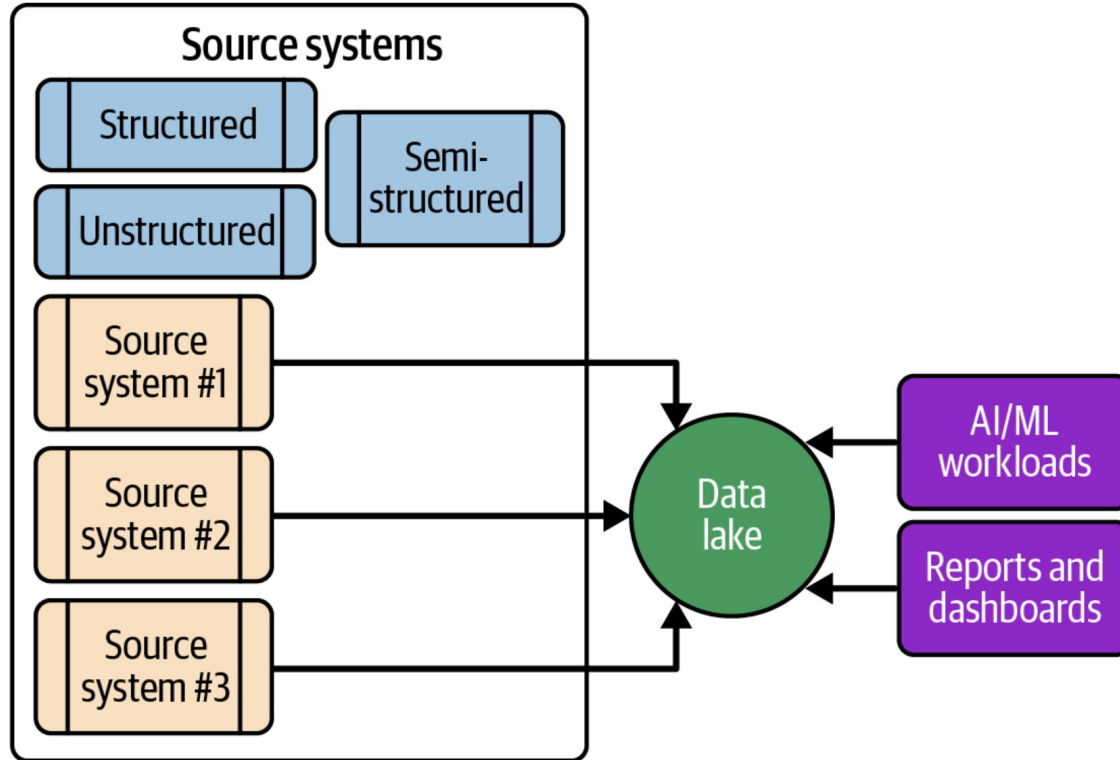


Figure 2-2. Data lake architecture

Source: Gaurav Ashok Thalpati, Practical Lakehouse Architecture, First Edition, O'Reilly, 2024.

Data Warehouse Architecture 3.0

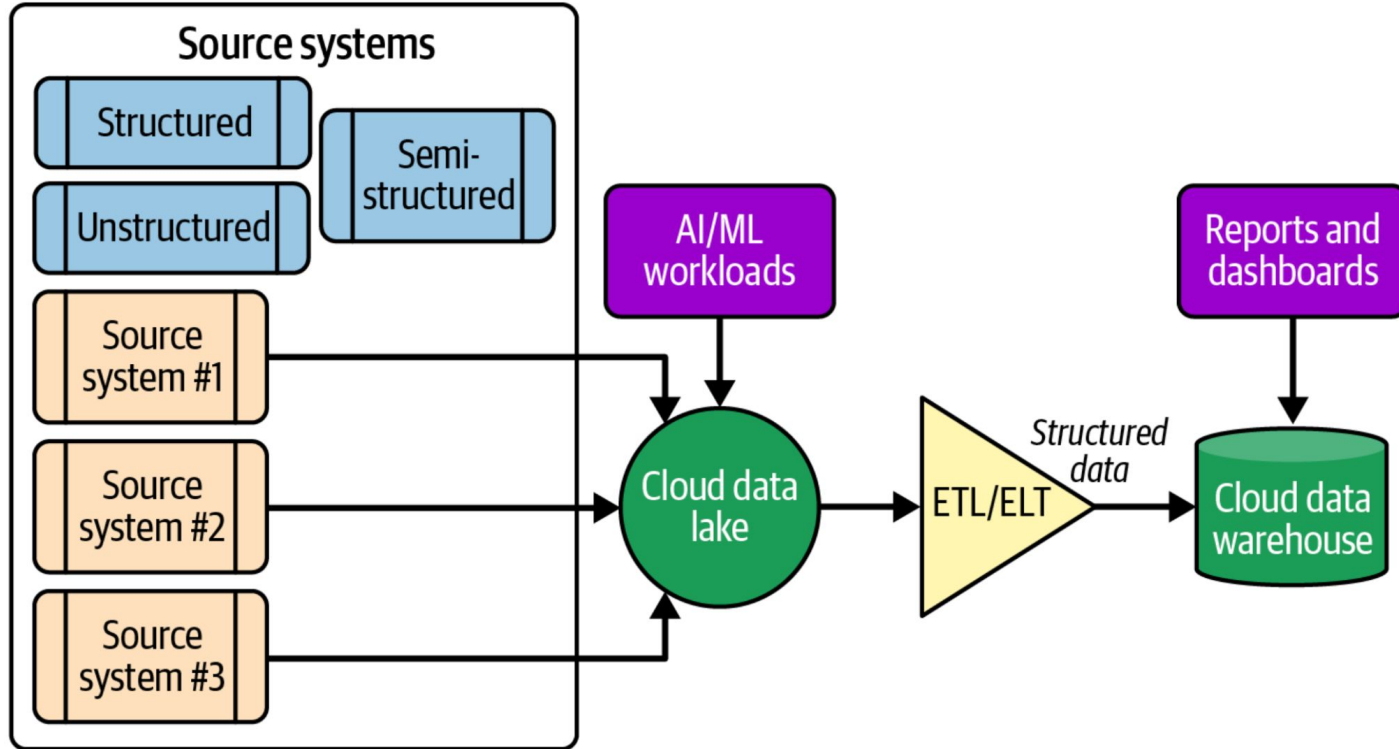
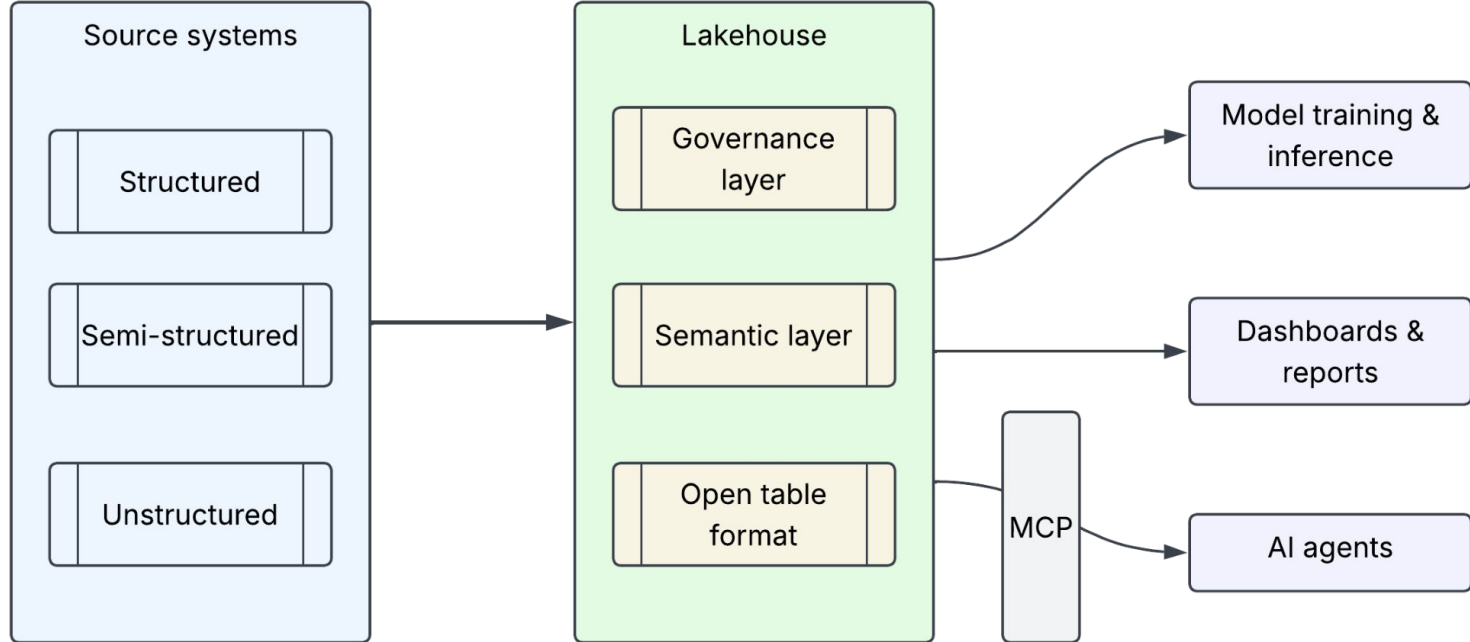


Figure 2-3. Data platform based on a combined architecture (cloud data lake + cloud data warehouse)

Data Warehouse Architecture 4.0



Claude Test

Step 1: Verify access to Claude:

- Go to claude.ai
- Log in with your EID@eid.utexas.edu

Step 2: Claude Code Install on MacOS:

- `brew install --cask claude-code`
- `claude`
- `/login`
- `/exit`

Step 2: Claude Code Install on Windows:

- Open a Windows PowerShell
- `irm https://claude.ai/install.ps1 | iex`
- `claude`
- `/exit`

Tips & tricks and what to keep in mind

- The spine of this course is the Term Project. Many of the activities we will do in class are in support of the project.
- Find a compatible project partner. Divide up the work evenly and honor your commitments.
- If you are having collaboration challenges, email me or come to office hours.
- If you have to miss class, email me, the TA, and your partner in advance.
- Assignments will generally come with code samples, not a complete playbook.
- Start the assignment as early as possible because the tech we're using changes so fast and there are some unknown unknowns.
- Our week-by-week schedule is tentative. It will be adjusted as we go based on reality.
- Ask questions and share your feedback as early and often as possible.