

PostgreSQL ERP Integrity Project

This project demonstrates practical PostgreSQL DBA capabilities through a simulated ERP data integrity challenge.

Key Capabilities Demonstrated:

- Database schema design and normalization
- Primary key, foreign key and unique constraints
- Detection of data inconsistencies
- Cleanup of historical bad data
- Trigger-based auditing
- Governance reporting
- Automation using Bash scripting

Business Problem Solved:

- Assets appearing assigned to multiple users
- Missing approved timesheets
- Inconsistent operational data

Solution Approach:

1. Reproduce data issues
2. Detect anomalies using SQL
3. Correct historical data
4. Apply database constraints
5. Implement auditing
6. Validate results