

Production Test Cases

The purpose of this document is to discuss how can we extend our unit tests for production environment. Several points will be mentioned that we believe can fulfill that.

1) Strengthening Unit Tests for each Cleaning Function

- Adding tests that assert behavior not just column existence (ex. Normalization correctness check)

2) Production-grade tests for fact table builder function

- Adding complex boundary tests for the time window join
- Adding tests for the tie breaker of the overlapping maintenance events
- Adding more tests for breakdown flag assignment

3) Add integration tests (small end-to-end, local Spark)

- At least 1 to 2 end-to-end tests for production
- A golden mini dataset can be used with malformed, missing & duplicated data