

# Day 24 - Bug Fixes & Performance Optimization

Date: 2025-08-19

Today we focused on fixing bugs, testing database inserts, and optimizing performance.

## Key Accomplishments:

- Fixed `insert_script.py` to reliably insert JSON into SQLite.
- Added `tests/test_insert_script.py` for correctness validation.
- Built `tests/test_insert_performance.py` for speed benchmarking.
- Compared legacy vs optimized inserts (`tests/test_insert_comparison.py`).
- Stress-tested queries with 1000+ records (`tests/test_query_perf.py`).
- Updated `requirements.txt` and `README.md`.

## Results:

- Insert performance improved  $\sim 1.1x$  with bulk inserts.
- 1000+ records inserted and queried in  $< 0.3s$ .
- All tests passed with no failures.

This marks the completion of Day 24 — the project is now stable, tested, and optimized.

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