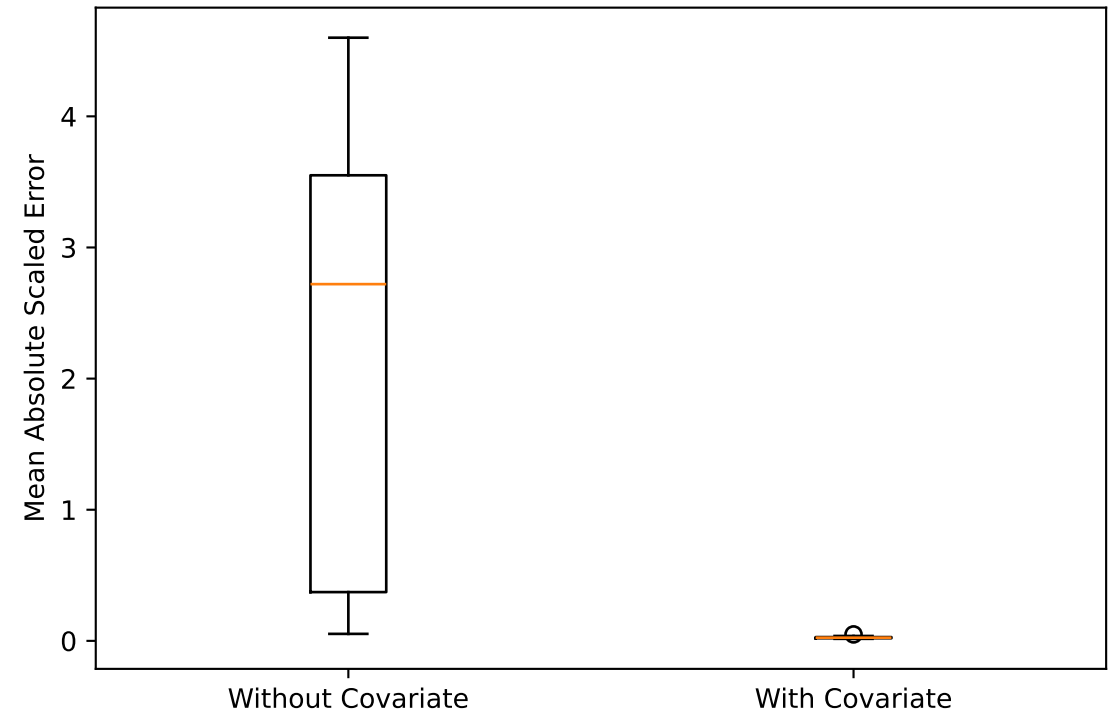
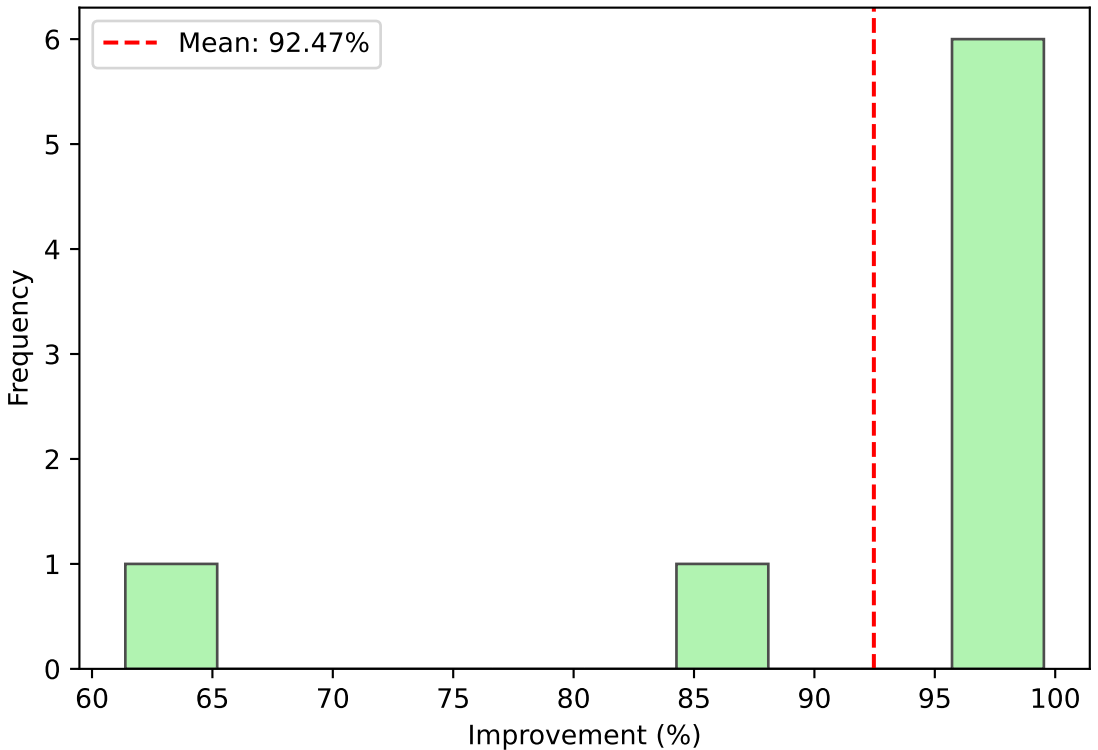


Covariate Study Summary: Steps

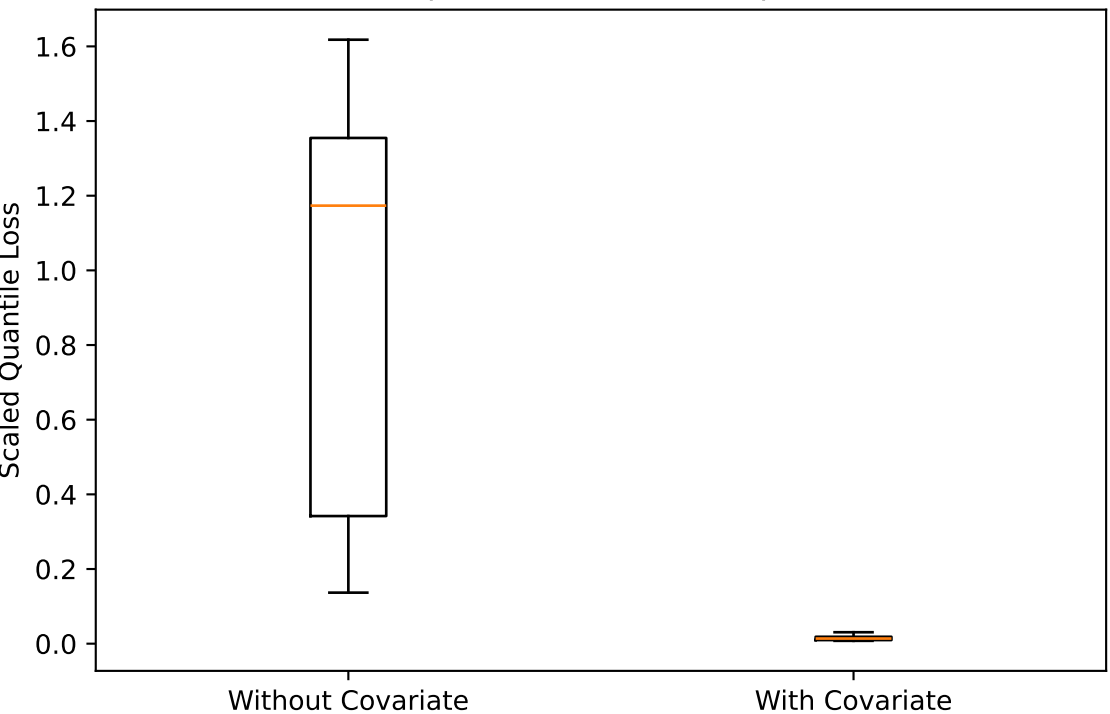
MASE Comparison Across All Experiments



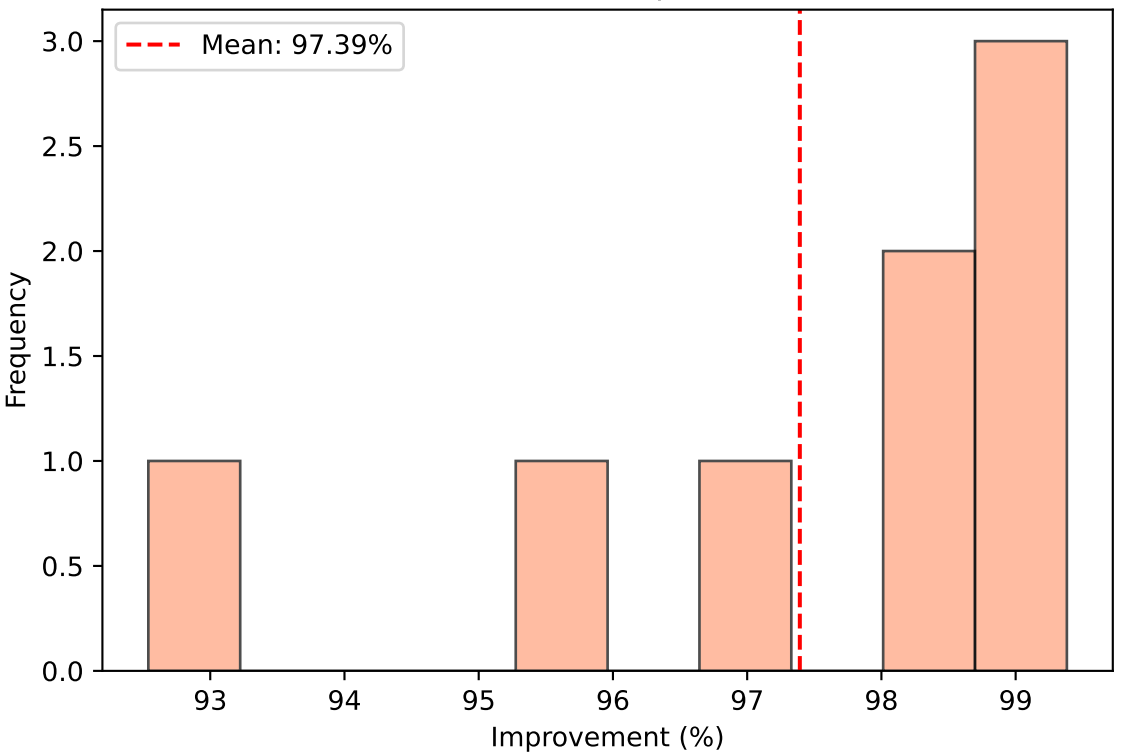
Distribution of MASE Improvements (%)



SQL Comparison Across All Experiments



Distribution of SQL Improvements (%)



Detailed Statistics

Covariate Study Detailed Results

Covariate Types: steps

Number of Experiments: 8

MASE Results:

- Without Covariate: 2.2837 ± 1.7097
- With Covariate: 0.0270 ± 0.0104
- Average Improvement: 92.47%
- Median Improvement: 98.68%

SQL Results:

- Without Covariate: 0.9477 ± 0.5621
- With Covariate: 0.0152 ± 0.0072
- Average Improvement: 97.39%
- Median Improvement: 98.25%

Study Parameters:

- Weight: 1.0
- Relation: multiplicative
- Train Ratio: 0.6
- Covariate Weights: Randomized per experiment (Dirichlet distribution)

Best Performing Experiment (MASE):

- Experiment 5: 99.53% improvement

Worst Performing Experiment (MASE):

- Experiment 2: 61.38% improvement