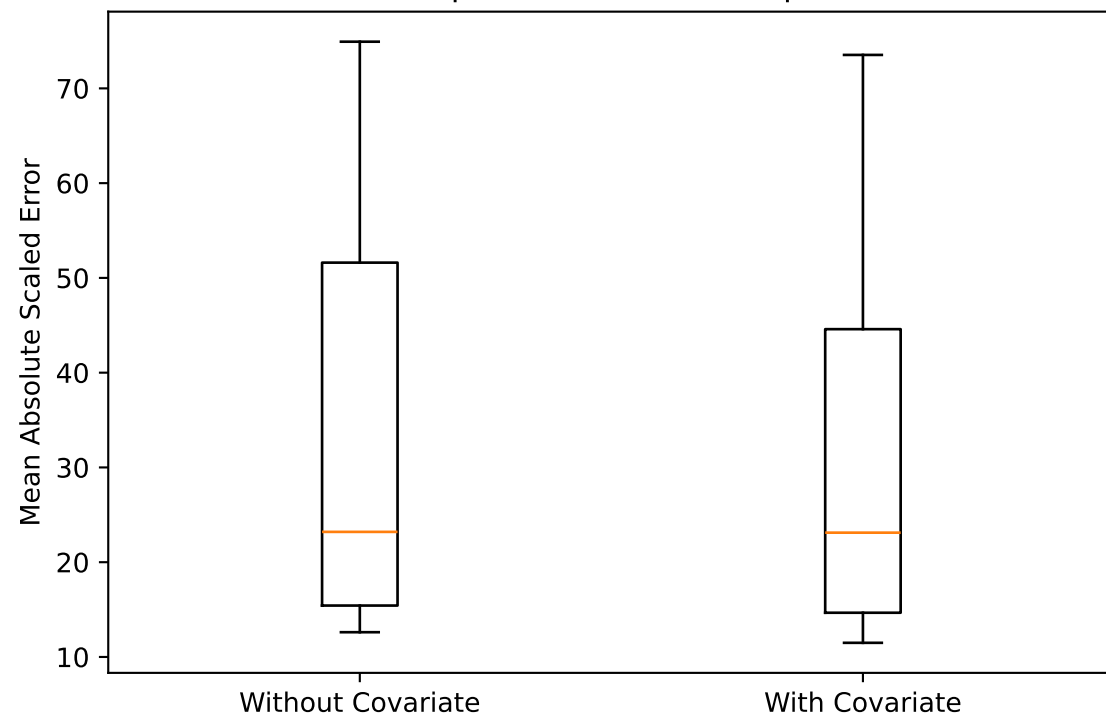
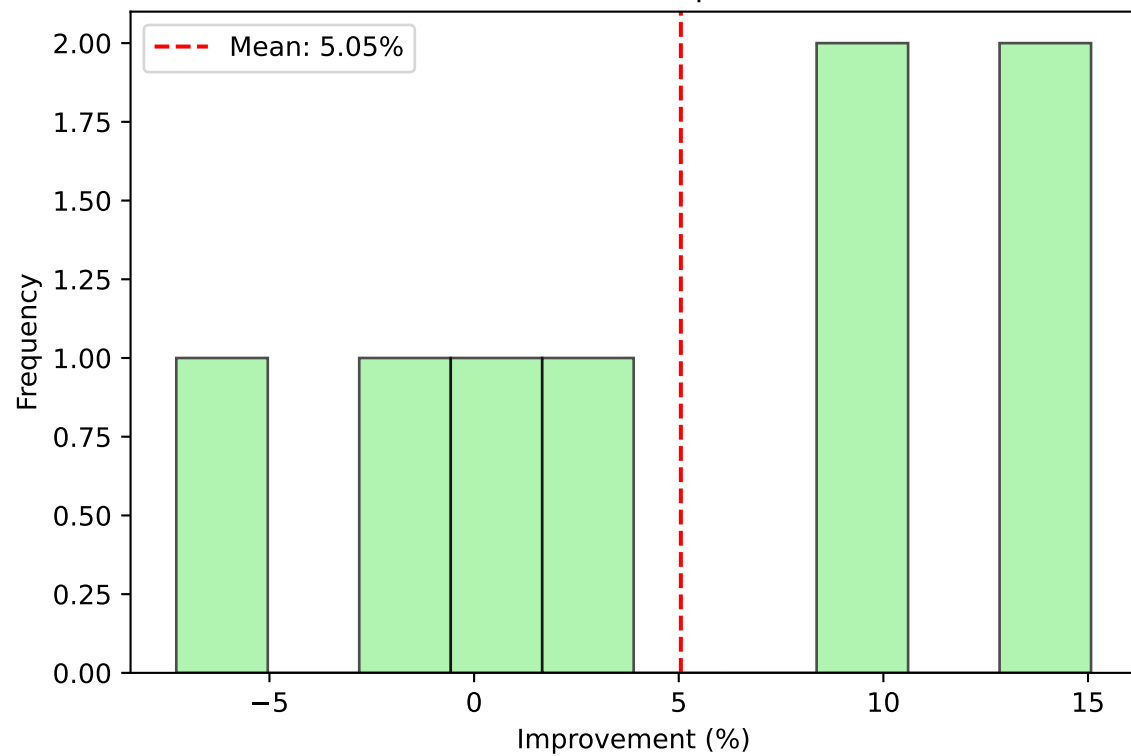


Covariate Study Summary: Linear Trend

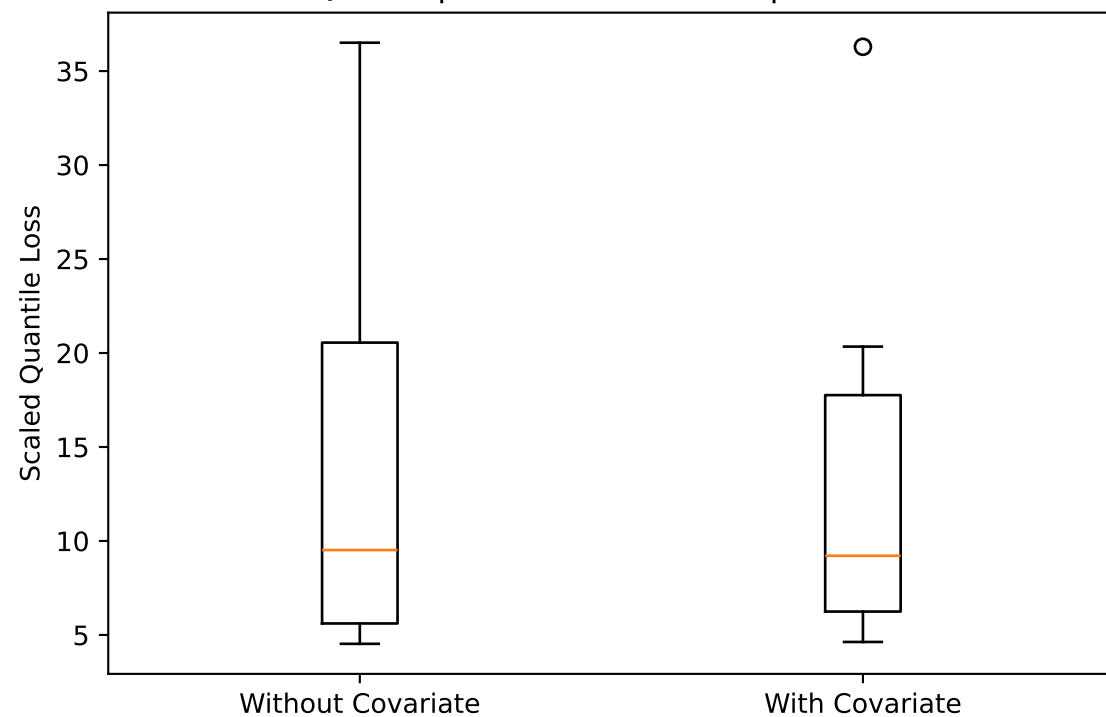
MASE Comparison Across All Experiments



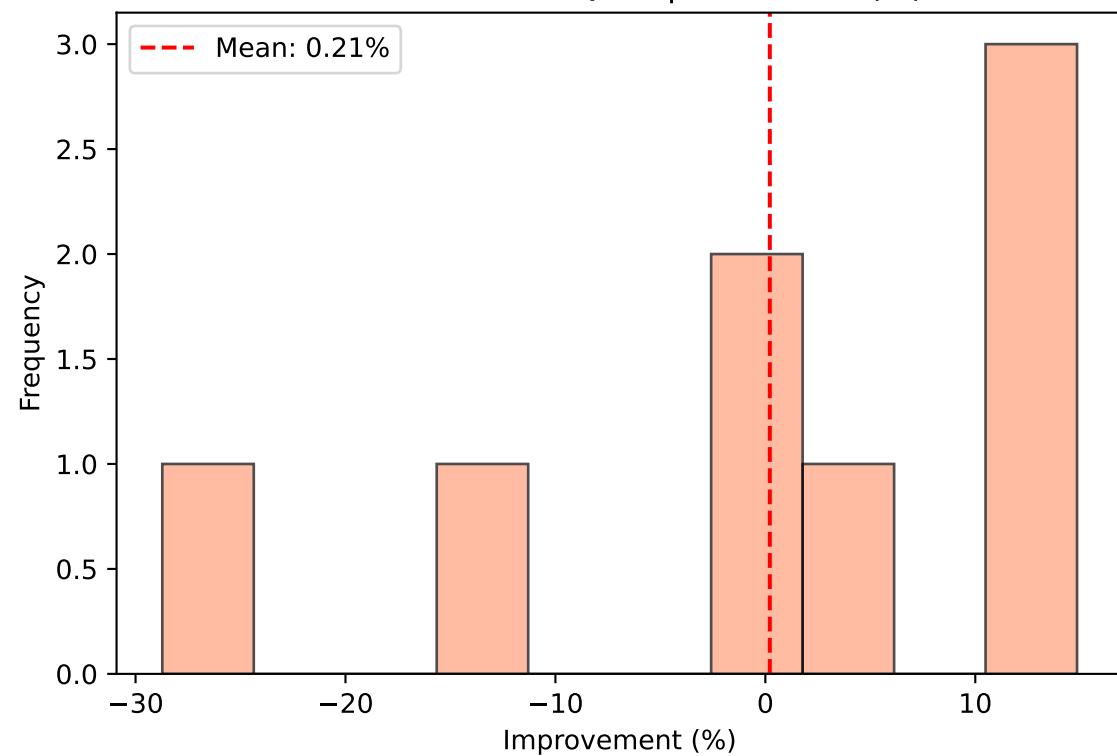
Distribution of MASE Improvements (%)



SQL Comparison Across All Experiments



Distribution of SQL Improvements (%)



Detailed Statistics

Covariate Study Detailed Results

Covariate Types: linear_trend

Number of Experiments: 8

MASE Results:

- Without Covariate: 33.4222 ± 21.8050
- With Covariate: 31.3999 ± 20.5047
- Average Improvement: 5.05%
- Median Improvement: 5.37%

SQL Results:

- Without Covariate: 14.2376 ± 10.7270
- With Covariate: 13.5849 ± 10.1085
- Average Improvement: 0.21%
- Median Improvement: 2.98%

Study Parameters:

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

Best Performing Experiment (MASE):

- Experiment 3: 15.07% improvement

Worst Performing Experiment (MASE):

- Experiment 6: -7.28% improvement