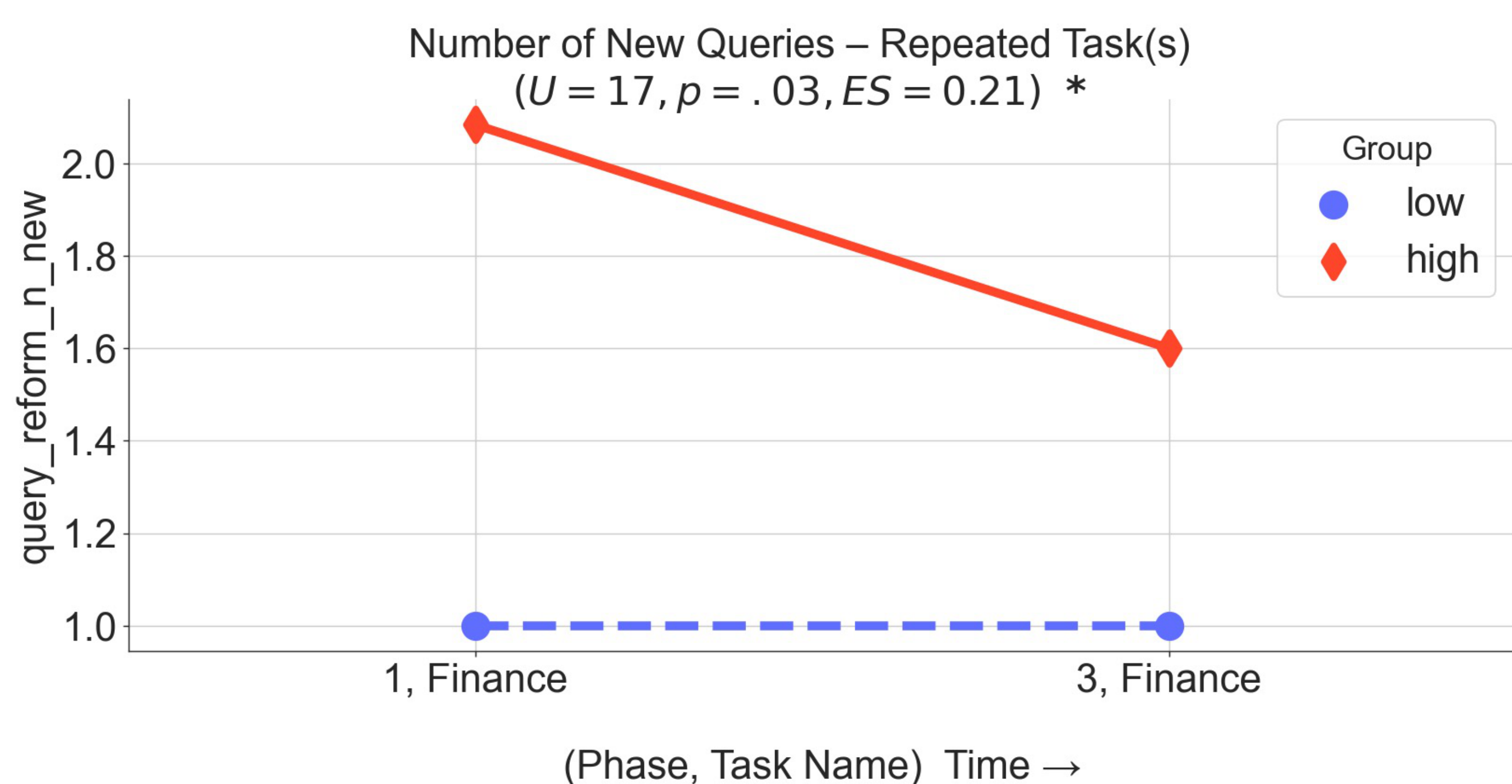
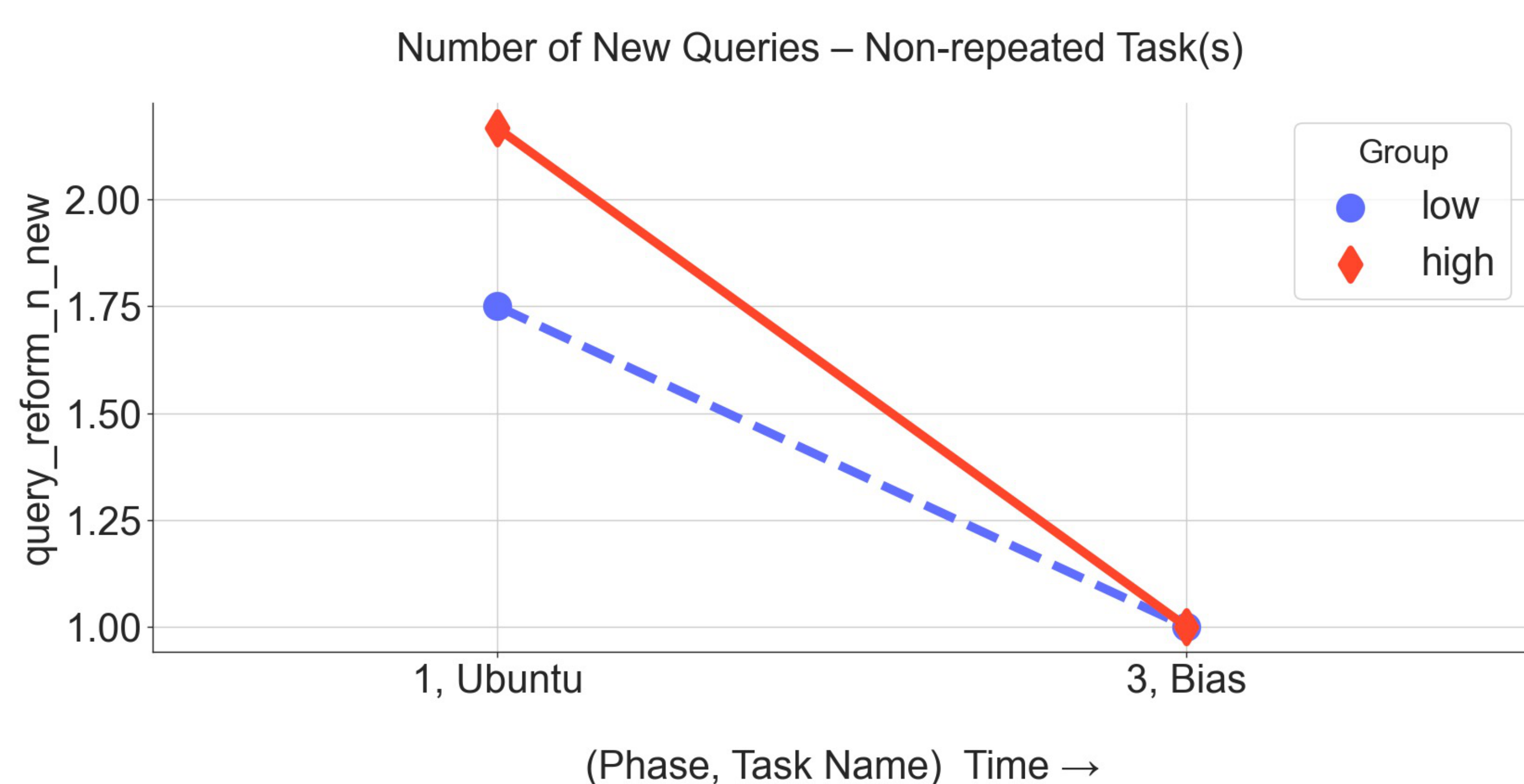


# Number of Query Reformulation Types (QRTs) – Repeated vs Non-repeated Tasks

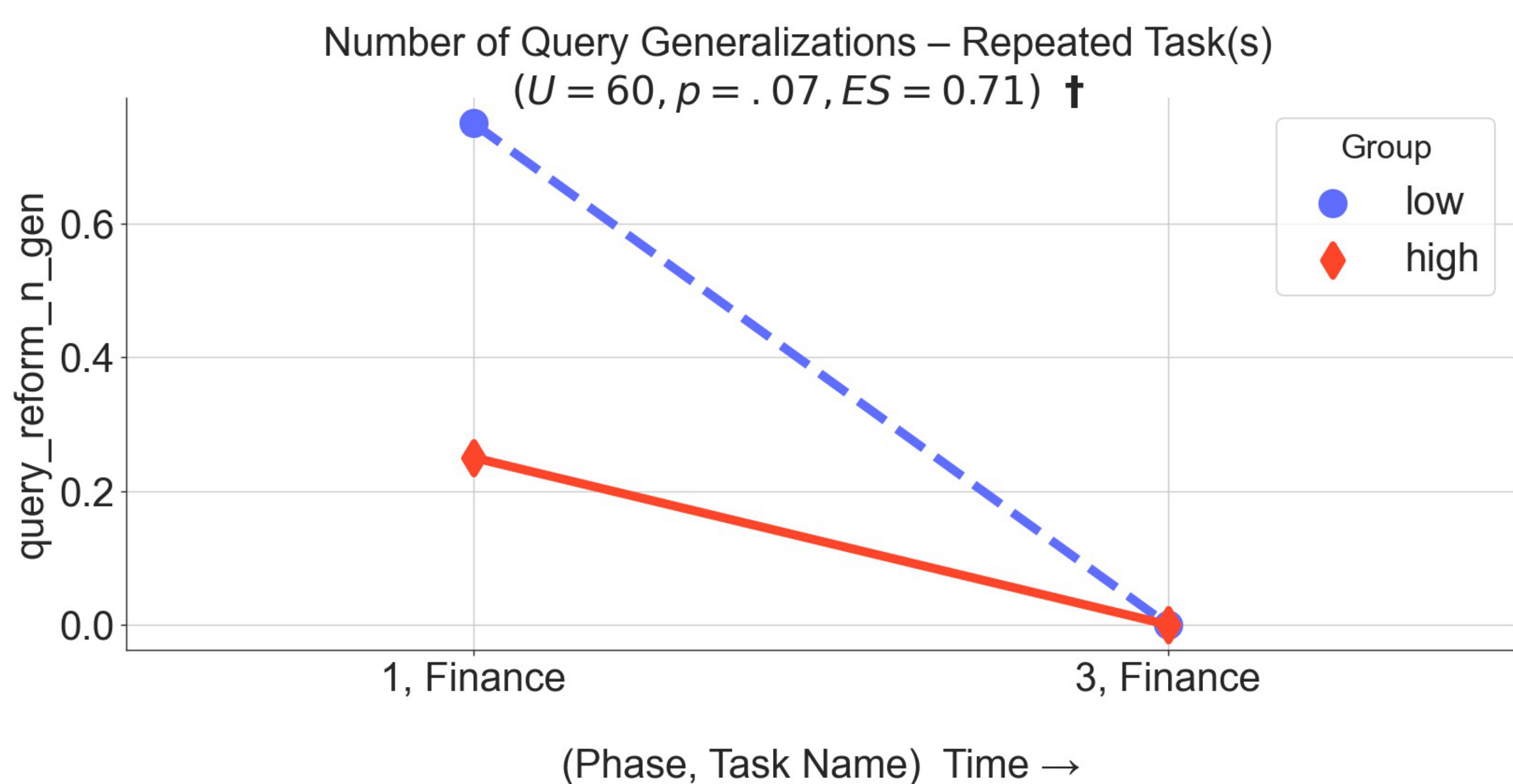


(a)

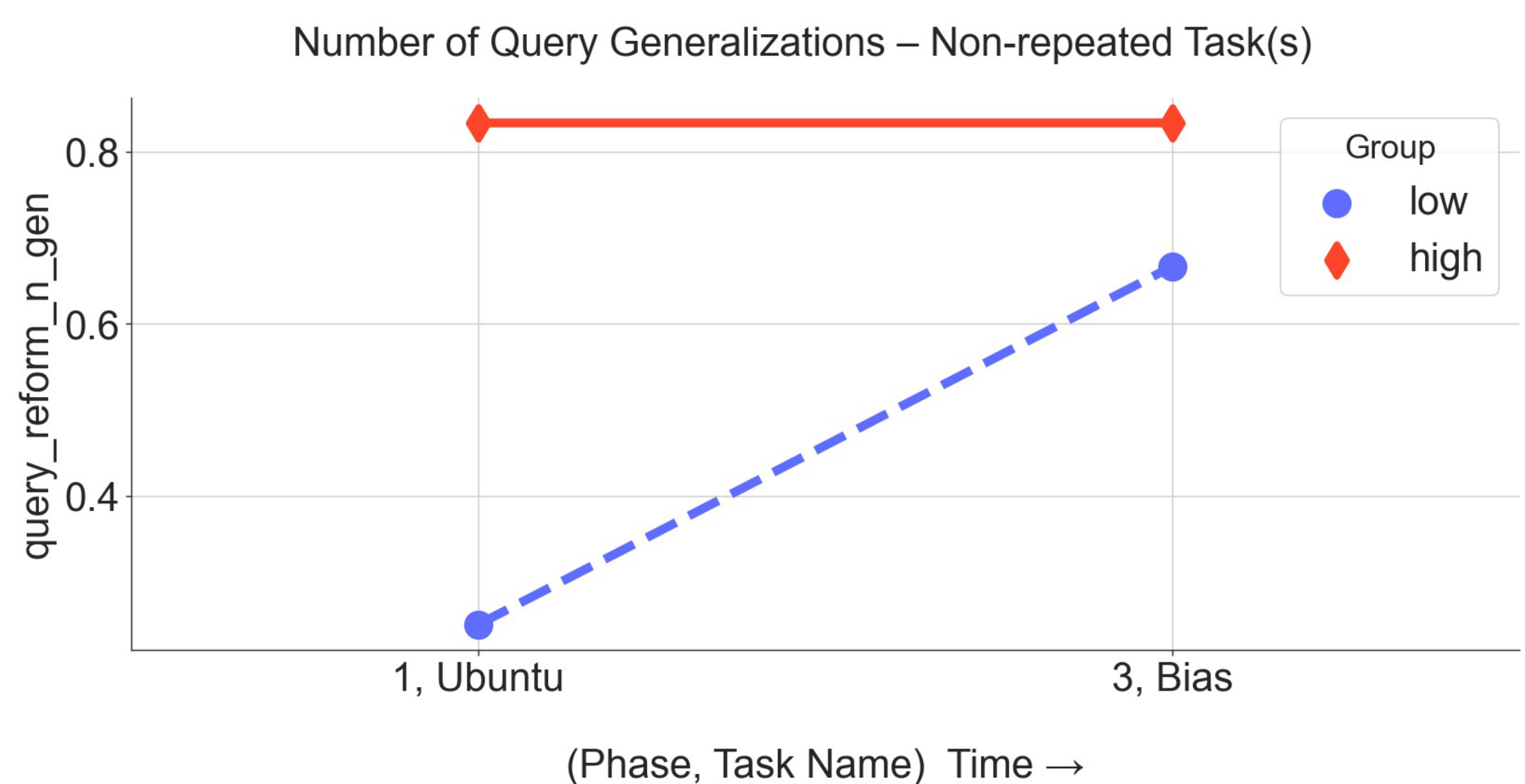


(b)

## New Queries

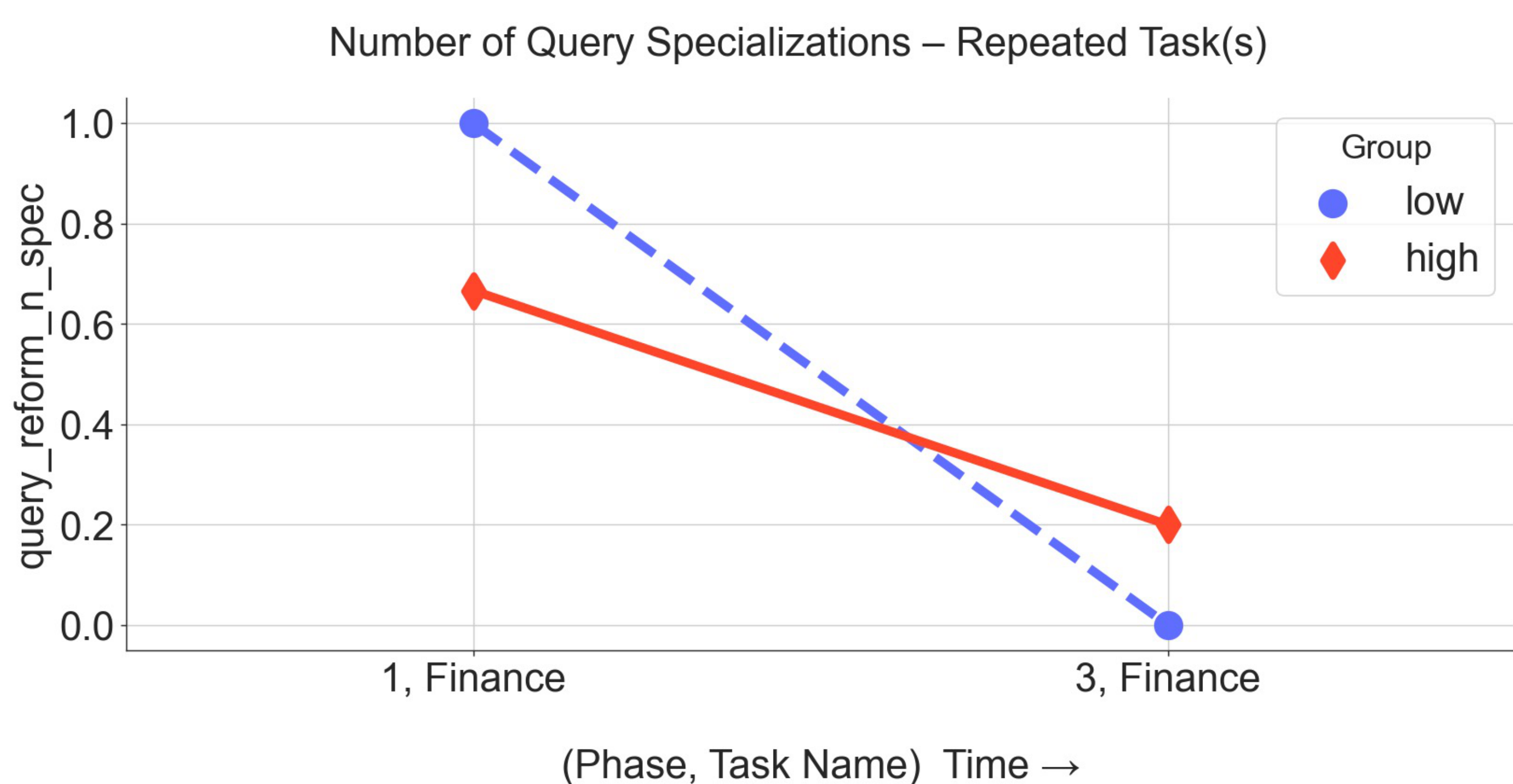


(c)

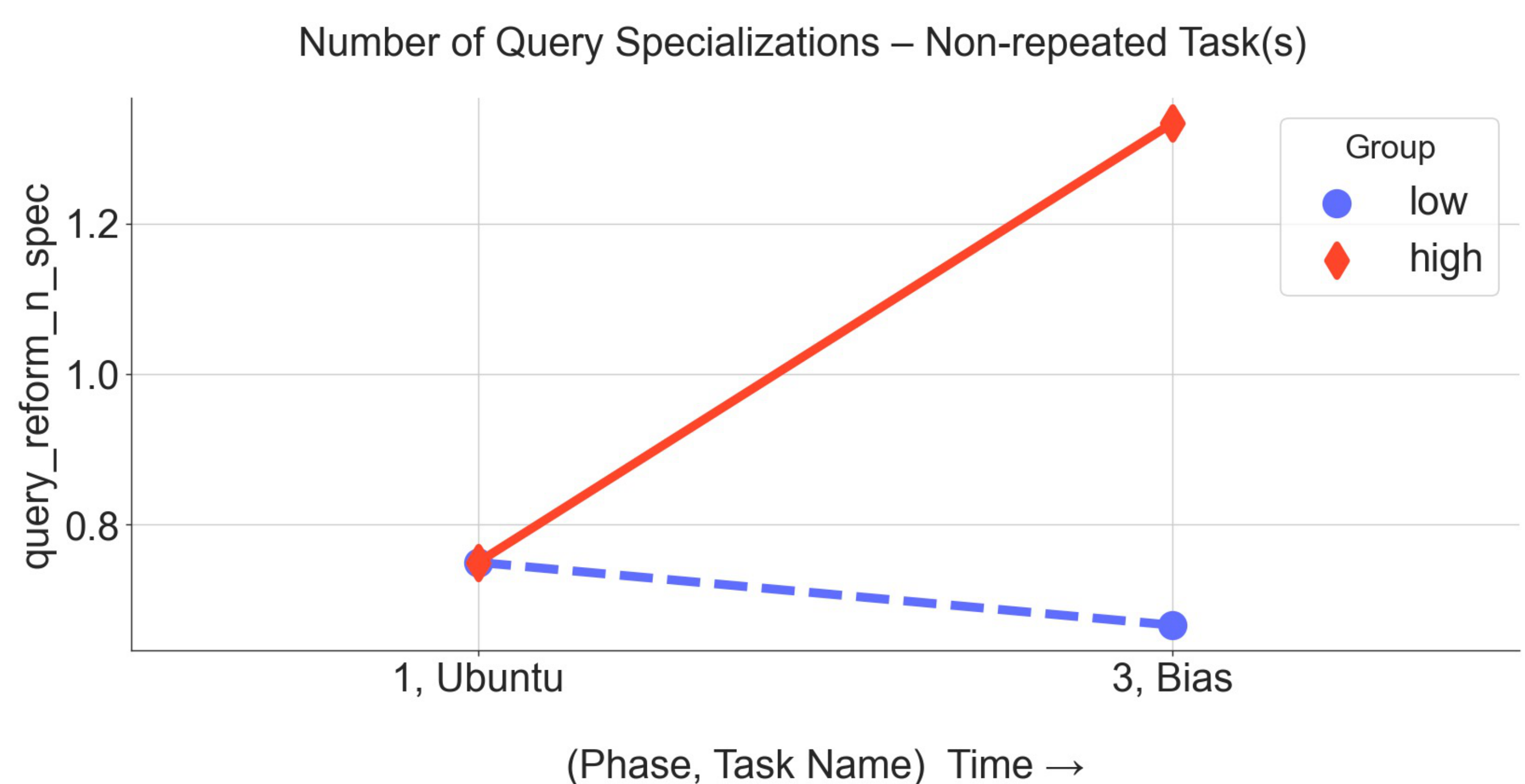


(d)

## Generalizations

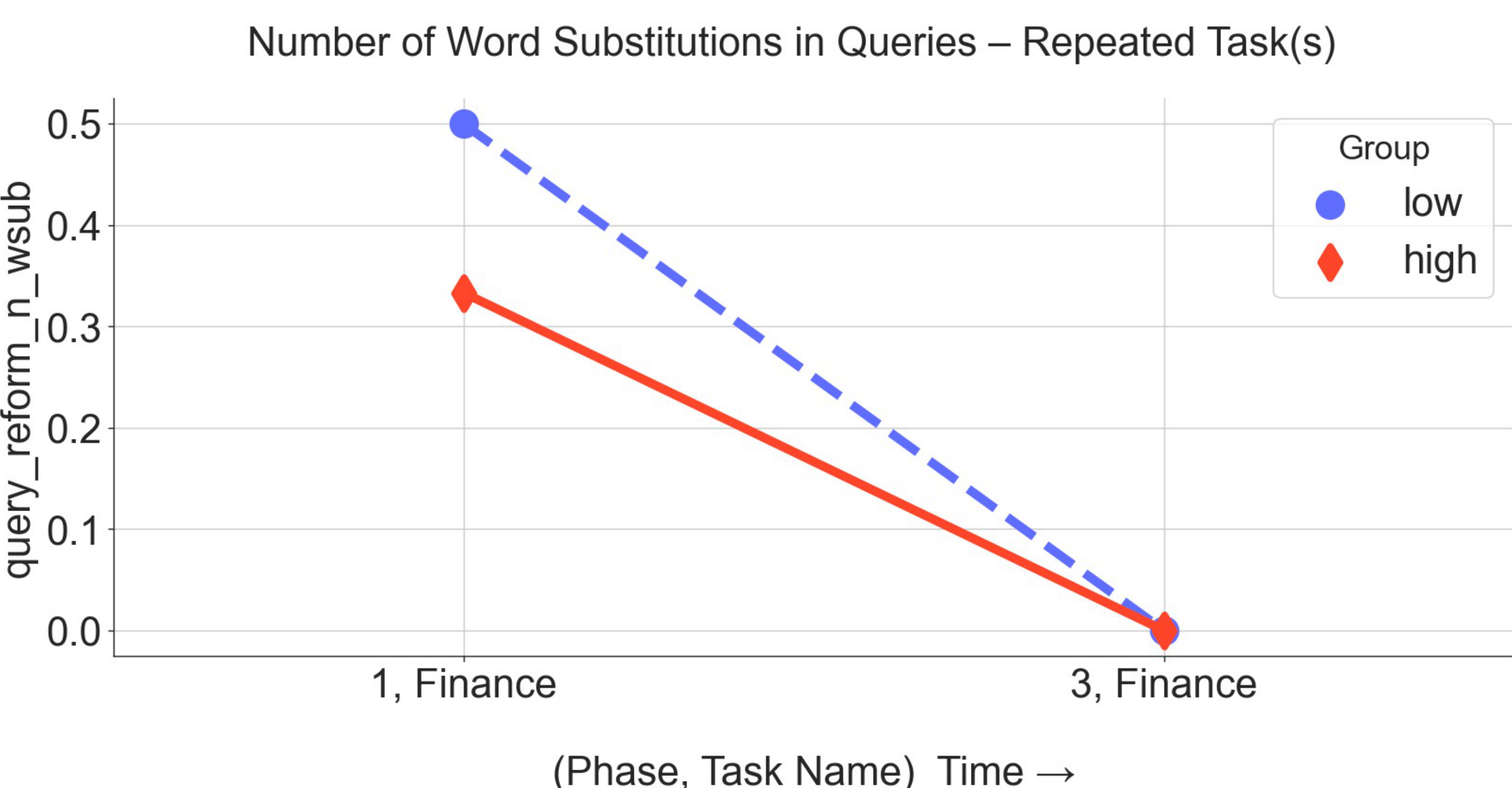


(e)

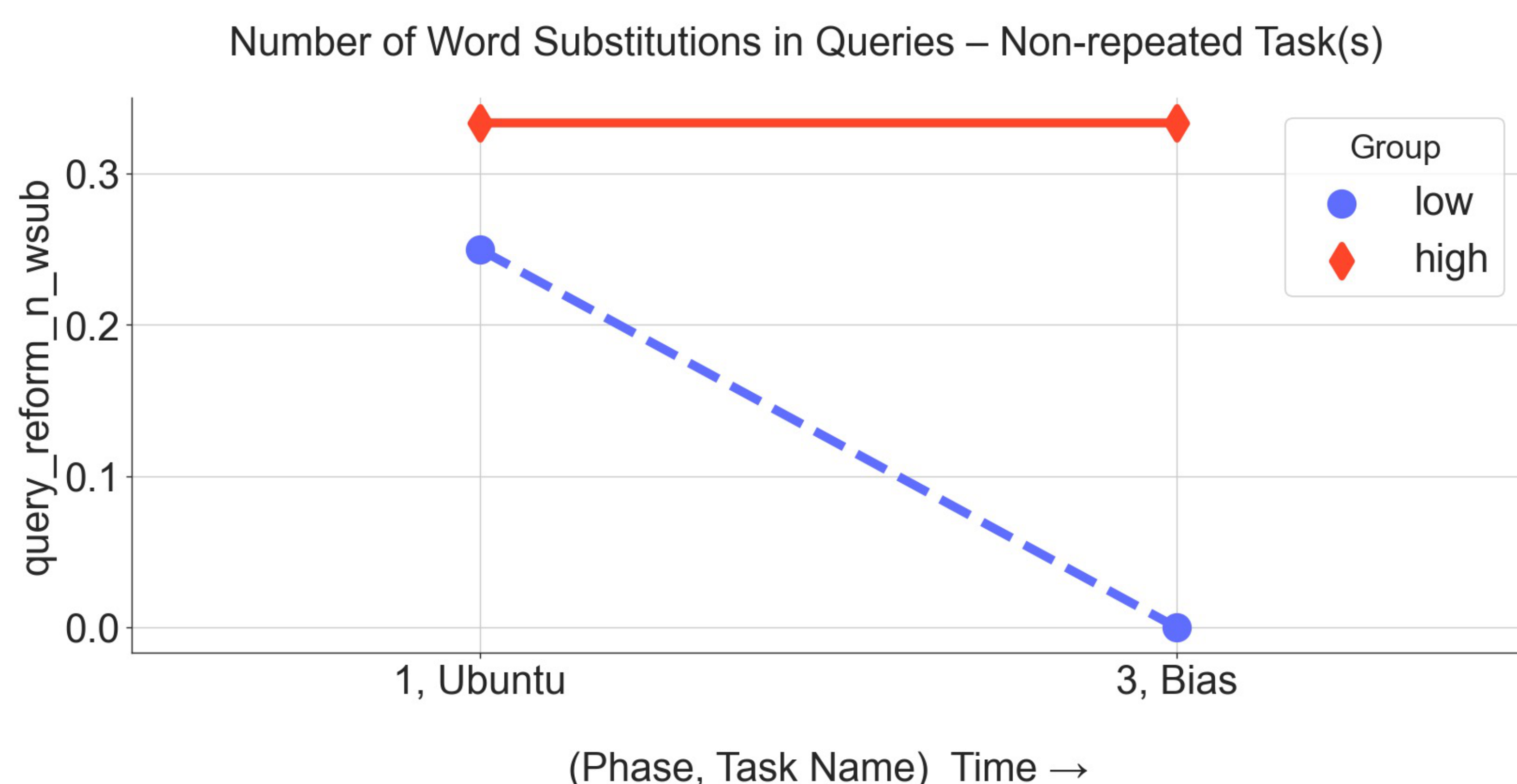


(f)

## Specializations

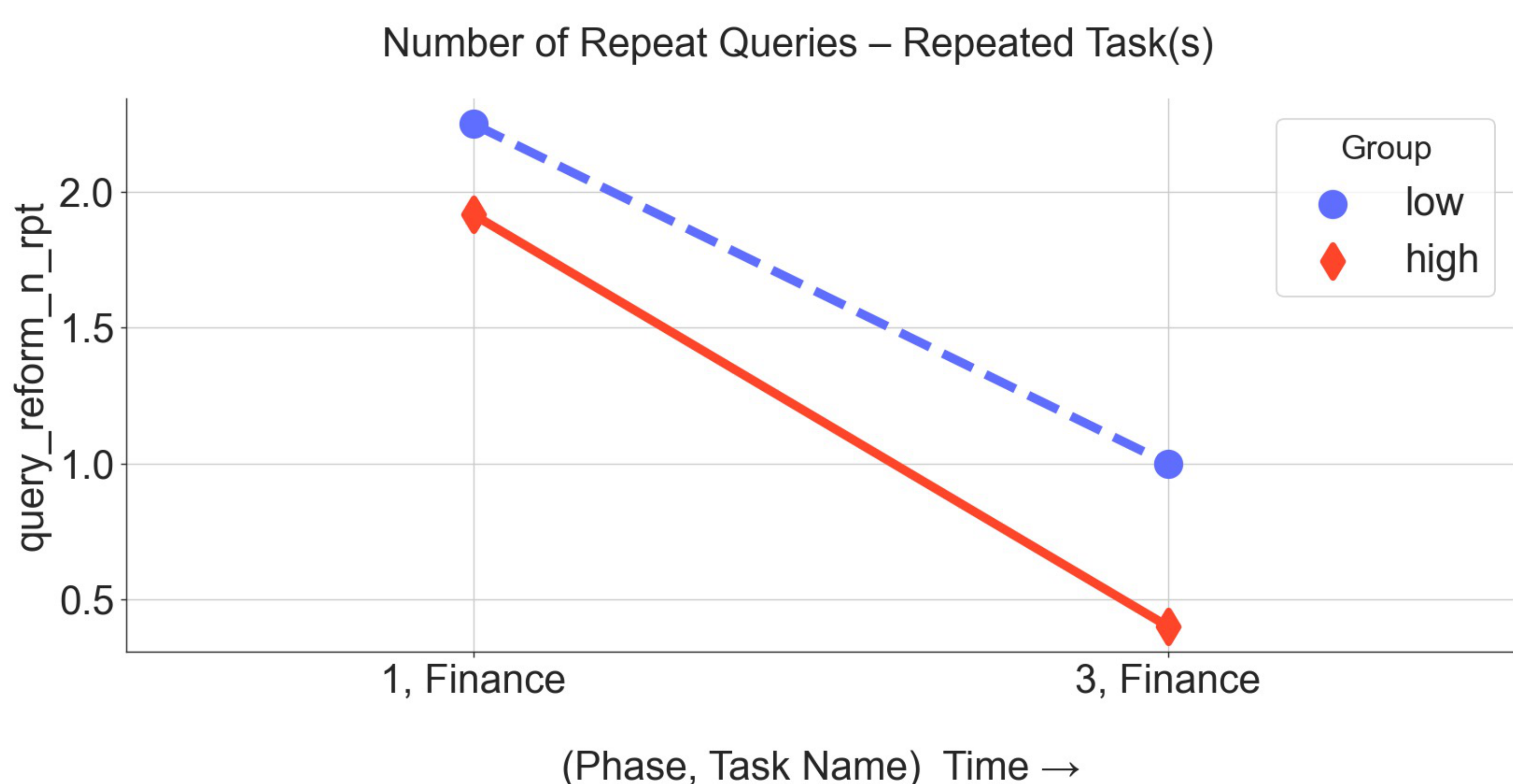


(g)

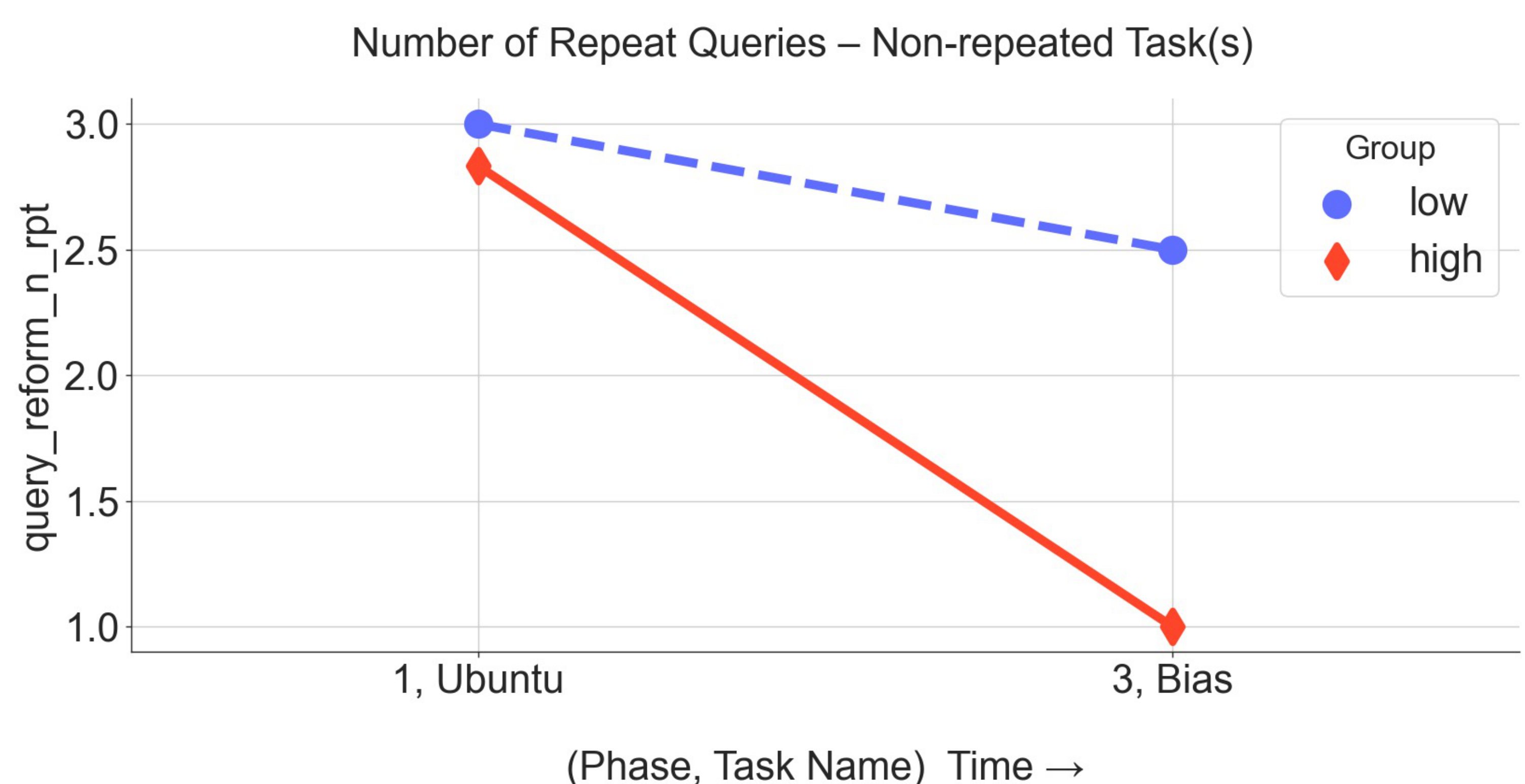


(h)

## Word Substitutions



(i)



(j)

## Repeat Queries

Repeated Tasks: Personal Finance

Non-repeated task: Ubuntu Ethics, Algorithmic Bias