

# 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