Select

count(\*) as refactors

, avg(commits\_after\_3\_months) as avg\_commits\_after\_3\_months

, avg(commits\_after\_3\_months - commits\_before\_3\_months) as prod\_3\_month

, avg(commits\_after\_6\_months - commits\_before\_6\_months) as prod\_6\_month

, avg(if (bug\_ratio\_after\_3\_months < bug\_ratio\_before\_3\_months -0.1 , commits\_after\_3\_months - commits\_before\_3\_months, null)) as ccp\_diff\_to\_prod\_3\_month

, avg(if (bug\_ratio\_after\_6\_months < bug\_ratio\_before\_6\_months -0.1 , commits\_after\_6\_months - commits\_before\_6\_months, null)) as ccp\_diff\_to\_prod\_6\_month

, avg(if (bug\_ratio\_after\_3\_months < bug\_ratio\_before\_3\_months -0.1

And commits\_after\_3\_months > 4 and commits\_before\_3\_months > 4 , commits\_after\_3\_months - commits\_before\_3\_months, null)) as ccp\_diff\_to\_prod\_3\_month\_more\_4

, avg(if (bug\_ratio\_after\_6\_months < bug\_ratio\_before\_6\_months -0.1 And commits\_after\_3\_months > 4 and commits\_before\_3\_months > 4 , commits\_after\_6\_months - commits\_before\_6\_months, null)) as ccp\_diff\_to\_prod\_6\_month\_more\_4

from

`citric-trees-187317.repo\_attributes.refactor\_stats`

Select

Bug\_ratio\_after\_3\_months < bug\_ratio\_before\_3\_months as improved\_ccp

, commits\_after\_3\_months > commits\_before\_3\_months as improved\_productivity

, count(\*) as cases

from

`citric-trees-187317.repo\_attributes.refactor\_stats`

Where

commits\_after\_3\_months > 4

and commits\_before\_3\_months > 4

Group by

Improved\_ccp

, improved\_productivity

Order by

Improved\_ccp

, improved\_productivity