

When the user searches for a report that doesn't exist then you get an error because you cannot divide by 0.

```
return self.view_functions[rule.endpoint](**req.view_args)

File "/workspace/ms3-project-2/app.py", line 653, in search_db_reports
    reportedReports = calculate_percentage_of_search_reported_to_authorities(report, reportedReportsCount)

File "/workspace/ms3-project-2/app.py", line 116, in calculate_percentage_of_search_reported_to_authorities
    reportedReportsPercentage = (reportedReportsCount/number_of_reports)*100

ZeroDivisionError: division by zero
```

```
def calculate_percentage_of_report_in_db(report, totalReportsCount):
    print("calculate_percentage reached")
    number_of_reports = report.count()
    calculatePercentageDb = (number_of_reports/totalReportsCount)*100
    percentageOfDb = round(calculatePercentageDb)
    return percentageOfDb

def calculate_percentage_of_search_reported_to_authorities(report, reportedReportsCount):
    print("calculate_percentage reached for reported")
    number_of_reports = report.count()
    reportedReportsPercentage = (reportedReportsCount/number_of_reports)*100
    reportedReports = round(reportedReportsPercentage)
    return reportedReports
```

Fix – I wrote a condition that says if the report count is 0 then the percentageOfDb would be a string 0- rather than working out the maths.

```
def calculate_percentage_of_report_in_db(report, totalReportsCount):
    print("calculate_percentage reached")
    number_of_reports = report.count()
    print(number_of_reports)
    if number_of_reports == 0:
        percentageOfDb = "0"
    else:
        calculatePercentageDb = (number_of_reports/totalReportsCount)*100
        percentageOfDb = round(calculatePercentageDb)
    return percentageOfDb

def calculate_percentage_of_search_reported_to_authorities(report, reportedReportsCount):
    print("calculate_percentage reached for reported")
    number_of_reports = report.count()
    if number_of_reports == 0:
        reportedReports = "0"
    else:
        reportedReportsPercentage = (reportedReportsCount/number_of_reports)*100
        reportedReports = round(reportedReportsPercentage)
    return reportedReports
```

The end product looked like this.

Your search found 0 incidents.

These incidents make up 0% of the entire database.

0% of these have been reported to the authorities.

Footer