RESEARCH QUESTION:

Are average scores for hospital quality or
    procedural variability correlated with
    patient survey responses?

CONCLUSION:

Quality scores and survey responses are
moderately correlated.

**The Pearson coefficient of HCAPS survey results
and overall hospital rating is 0.5201942175192353**

FINDING NOTES:

Here, I only ran correlation calculations for
two, rolled-up metrics. To truly investigate the
relationship, I should test the individual
variables of the surveys with hospital ratings.

SQL and data cleaning:

Create table stripping out non-integer values:

```
> create table relate_clean AS SELECT
> id, name, survey_score, rating FROM relate
> WHERE survey_score <> "Not Available" AND
> rating <> "N"
> ;
```

Run corr() function in HIVE:

```
> SELECT id, name, corr(survey_score, rating) as
correlation
> FROM relate_clean;
```

OUTPUT:

```
OK
_c0
0.5201942175192353
Time taken: 47.772 seconds, Fetched: 1 row(s)
```