

\* hw11a.sas  
\* written by Steve Simon  
\* creation date: 2020-07-25;

\* Note: this solution uses SAS and Oracle. An alternate solution using R and SQLite is also available.

Note: Some of the names used in this code are arbitrary and you can choose whatever names you want. To emphasize which names can be modified at your discretion, I am using names of famous statisticians.

The statistician being honored in this code is  
[Robert V. Hogg] ([https://en.wikipedia.org/wiki/Robert\\_V.\\_Hogg](https://en.wikipedia.org/wiki/Robert_V._Hogg)).

Use the same database shown in the video. It is available on the Insights platform, or you can download a sqlite file from Canvas.

1. List id and migraine\_label for the first ten records after joining the results\_table and migraine\_table.
2. Get a count of the number of records in the database in the control group and the treatment group. Use the label for group and not the number code.
3. Get a count of the numbers of males and females where you restrict age to be less than 40. Use the label for sex, but convert it to all uppercase.

```
ods pdf file="q:/introduction-to-sql/results/hw09a-solution-using-sas-oracle-output.pdf";
```

```
%include 'q:/sql files/super-secret.sas';  
libname  
  hogg  
  oracle  
  user='simons'  
  password=&pw  
  path='@CHIHFPD, BUFFSIZE=9000'  
  schema='simons';
```

```
proc sql;  
  create table robert1 as  
    select r.id, g.group_label  
    from hogg.results_table as r  
    join hogg.group_table as g  
    on r.group_n=g.group_code  
    where monotonic() <= 10  
  ;  
quit;
```

```
proc print  
  data=robert1;
```

```

run;

proc sql;
  create table robert2 as
    select g.group_label, count(r.id) as n
      from hogg.results_table as r
      join hogg.group_table as g
        on r.group_n=g.group_code
      group by g.group_label
  ;
quit;

proc print
  data=robert2;
run;

proc sql;
  create table robert3 as
    select
      upper(s.sex_label) as gender,
      count(r.id) as n
    from hogg.results_table as r
    join hogg.sex_table as s
      on r.sex=s.sex_code
    where age < 40
    group by gender
  ;
quit;

proc print
  data=robert3;
run;

ods pdf close;

```