**SQL Practice Problems: SAT Exam I**

**Problem Statement**

The dataset has details of students who appeared for SAT exam. Use this data to solve SQL problems

1.

Find the list of all the schools in the database

**Expected Output:** School names in ascending order

select school

from sat\_score

group by 1

order by 1

2.

Find the school-wise count of SAT-appearing students

**Expected Outcome**: School names and count of students column in exact same sequence. The output should be sorted by students count in ascending order

select school, count(student\_id) as student\_count

from sat\_score

group by 1

order by 2

3.

What is the school-wise average score in writing, verbal and math

**Expected Outcome:** School name, average writing score, average verbal score and average math score. The output should be sorted by average math score in descending order

select school, avg(sat\_writing) as average\_writing\_score,

avg(sat\_verbal) as average\_verbal\_score,

avg(sat\_math) as average\_math\_score

from sat\_score

group by 1

order by 4 desc

4.

Find out the id of the students who spent the minimum number of hours in studies for every school

**Expected Output:**  school, student\_id, hrs\_studied in exact same sequence. The output should be sorted by hrs\_studied in descending order

with most\_hours\_spend\_list as (

    select

    school,student\_id,

    hrs\_studied,

    rank() over (partition by school order by

    hrs\_studied asc ) as hour\_spent\_rank

    from sat\_score

)

select school, student\_id, hrs\_studied

from most\_hours\_spend\_list

where hour\_spent\_rank = 1

order by 3 desc