***Data Analytics Intern – Task 1***

We conduct Olympiad exam for our partner schools every year to evaluate the standard of the students. Here we have provided you with the sample data for the exam. To get a proper insight about the exam you need all the 4 tables, data for all those 4 tables are given in the csv file.

**List of tables:**

1. Student\_list
2. Student\_response
3. Correct\_answers
4. Question\_paper\_code

* **Table 1:** student\_list - List of students who attended the Olympiad exam from Google Public School.

**(roll\_number, student\_name, class, section, school\_name)**

* **Table 2:** student\_response - The Learn Basics Olympiad is an objective exam, student response for every question was recorded in this table.
  + 5 options ("A', 'B', 'C, 'D' and 'E') are provided for each question
  + Out of 5 options only "A', 'B', 'C' and D' are the valid options, students can pick E' option when they think they haven't learnt the concept yet.

**(roll\_number, question\_paper\_code, question\_number, option\_marked)**

* **Table 3:** correct\_answers - This table has the correct answer for all the questions in math and science.

**(question\_paper\_code, question\_number, correct\_option)**

* **Table 4:** question\_paper\_code - Since we are dealing with 3 classes and 2 subjects, we are maintaining a separate question paper code for each class and each subject.

**(paper\_code, class, subject)**

**Required output of task 1:**

Now, the objective is to validate the student response and present it in a single table with list of columns mentioned below using SQL.

Required output table with column data,

|  |
| --- |
| **OUTPUT\_TABLE\_COLUMN\_NAMES** |
| Roll\_number |
| Student\_name |
| Class |
| Section |
| School\_name |
| Math\_correct |
| Math\_wrong |
| Math\_yet\_to\_learn |
| Math\_score |
| Math\_percentage |
| Science\_correct |
| Science\_wrong |
| Science\_yet\_learn |
| Science\_score |
| Science\_percentage |

**Expected Output (**only few records shown**):**

A picture containing table

Description automatically generated